DESIGN REVIEW SET
NOT FOR CONSTRUCTION

PLAN SYMBOLS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
EXISTING EASEMENT
TEMPORARY EASEMENT
PROPOSED RIGHT-OF-WAY
PRESENT RIGHT-OF-WAY
CONTROL OF ACCESS LINE
PROPERTY LINES (EXCEPT LAND LINES)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT-OF-WAY
RIVER OR CREEK (NAME)
DRY RUN
DRAINAGE DITCH (SIZE)
DRAIN TILE
CULVERT
DROP INLET
GUARD RAIL
BARBED WIRE FENCE
WOVEN WIRE FENCE
CHAIN LINK FENCE
RAILROAD SNOW FENCE
STONE WALL OR FENCE
HEDGE
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL
ELECTRIC WARNING SIGN
CROSSING GATE
MEANDER CORNER
SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH
NURSERY (TIMBER)
CATCH BASIN (CB)
FIRE HYDRANT
CATTLE GUARD
OVERPASS (HIGHWAY OVER)
UNDERPASS (HIGHWAY UNDER)
BRIDGE
BUILDING (ONE STORY FRAME) 1-S-F 35 / 75
F – FRAME C – CONCRETE
S – STONE T – TILE
B – BRICK ST– STUCCO
IRON ROD OR PIPE
MONUMENT (STONE, CONCRETE, OR METAL) (MONU.)
WOODEN HUB
GRAVEL PIT (G)
SAND PIT (S)
BORROW PIT (B)
ROCK QUARRY (Q)

UTILITY SYMBOLS

POWER POLE LINE
TELEPHONE OR TELEGRAPH POLE LINE
JOINT TELEPHONE AND POWER
ON POWER POLE
ON TELEPHONE POLES
ANCHOR
STREET LIGHT
PEDESTAL (TELEPHONE CABLE TERMINAL) (PED.)
GAS MAIN (G)
WATER MAIN
CONDUIT
TELEPHONE CABLE IN CONDUIT (T)
ELECTRIC CABLE IN CONDUIT (P)
OVERHEAD POWER (OHP)
TELEPHONE MANHOLE (T)
ELECTRIC MANHOLE (P)
BURIED TELEPHONE CABLE (T–BUR)
BURIED ELECTRIC CABLE (P–BUR)
AERIAL TELEPHONE CABLE (T–AE)
STORM SEWER
SANITARY SEWER
CONCRETE CURB AND GUTTER

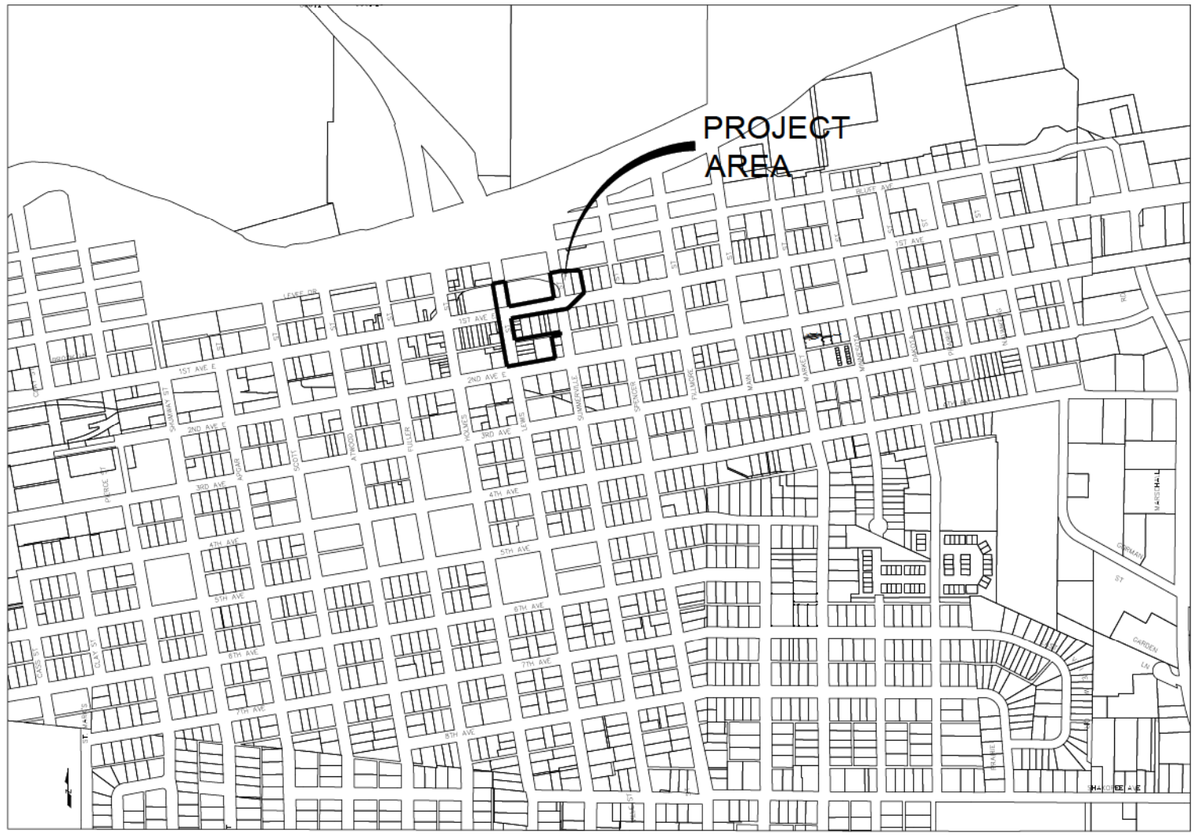
SCALES

INDEX MAP 0 500 1000
PLAN 0 30 60
PROFILE HORIZ. 0 30 60
VERT. 0 5 10

DOWNTOWN IMPROVEMENTS
FOR THE
CITY OF SHAKOPEE

CONSTRUCTION PLAN FOR PARKING LOT, SIDEWALK, ALLEY AND STORM SEWER IMPROVEMENTS

LOCATED ALONG LEWIS ST. S AND 1ST AVE. E BETWEEN HOLMES ST. S, 2ND AVE. E AND CR 101



THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF PRIVATE UTILITIES HAS BEEN DESIGNATED UTILITY QUALITY LEVEL D EXCEPT ABOVE GROUND ELECTRICAL, SANITARY SEWER AND STORM SEWER, WHICH ARE QUALITY LEVEL C. THE UNDERGROUND PIPELINES CROSSING THE ROADWAY HAVE BEEN DESIGNATED UTILITY QUALITY LEVEL C. THESE QUALITY LEVELS WERE DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE DATA". THE CONTRACTOR IS TO DETERMINE THE TYPE AND LOCATION OF PRIVATE UTILITIES AS MAY BE DEEMED NECESSARY TO AVOID DAMAGE THERETO.

EXCAVATION NOTICE SYSTEM

A CALL TO GOPHER STATE ONE (651-454-0002) IS REQUIRED A MINIMUM OF 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION.

GOVERNING SPECIFICATIONS

THE PROJECT SPECIFICATIONS, THE CITY OF SHAKOPEE GENERAL SPECIFICATIONS AND STANDARD DETAIL PLATES FOR STREET & UTILITY CONSTRUCTION, THE 2016 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE LATEST EDITION OF THE CEAM STANDARD UTILITY SPECIFICATIONS.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE LATEST MN MUTCD INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL DEVICES SHALL HAVE RETROFLECTIVE SHEETING.

Sheet List Table

Sheet Number	Sheet Title
L1.0	Cover Sheet
L2.0	Overall Removals Plan
L2.1	Lewis Parking Lot Removal Plan
L2.2	River City Plaza Removal Plan
L2.3	Gateway Plaza Removal Plan
L2.4	SWPPP
L2.5	SWPPP
L2.6	SWPPP
L3.0	Overall Layout Plan
L3.1	Lewis Parking Lot Layout Plan
L3.2	River City Plaza Layout Plan
L3.3	Gateway Plaza Layout Plan
L3.4	Gateway Plaza Layout Enlargement Plan
L5.0	Overall Restoration Plan
L5.1	Lewis Parking Lot Restoration Plan
L5.2	River City Plaza Restoration Plan
L5.3	Gateway Plaza Restoration Plan
L5.4	Gateway Plaza Plan
L6.0	Pavement Details
L6.1	Silva Cell Details
L6.2	Parking Lot Paver Details
L6.3	Circular Planters Details
L6.4	River Plaza Stair and Wall Details
L6.5	Rev. Pond Monument Base and Tree Stand Details
L6.6	Shakopee Sign Details
L6.7	Shakopee Sign Details
L6.8	Reader Board Details
L6.9	Artwall 'A' and Seat Wall 'A' Details
L6.10	Downtown Wall Details
L6.11	Art Walls and Seat Walls 'B' and 'C' Details
C1.0	Overall Grading & Utility Plan
C1.1	Lewis Parking Lot Grading & Utility Plan
C1.2	Alley Grading & Utility Plan
C1.3	Alley Profile Plan
C1.4	River City Plaza Grading & Utility Plan
C1.5	Gateway Plaza Grading & Utility Plan
C1.6	Gateway Plaza Grading & Utility Enlargement Plan
C1.7	Miscellaneous Details
C1.8	Pedestrian Ramp Details
C1.9	Utility Details
C2.0	Overall Traffic Control Plan
C2.1	Traffic Control Plan Area A PH1
C2.2	Traffic Control Plan Area A PH2
XS1	Cross Section
XS2	Cross Section
E0.1	Electrical Title Sheet
E1.1	Lewis Parking Lot Demo Plan
E1.2	River City Plaza Demo Plan
E1.3	Gateway Plaza Demo Plan
E2.1	Lewis Parking Lot Site Plan
E2.2	River City Plaza Site Plan
E2.3	Gateway Plaza Site Plan
E3.1	Electrical Details

ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

ENGR. WSB & Associates, Inc.
701 Xenia Avenue South, Suite 300
Minneapolis, MN 55416
Tel: (763) 541-4800 Fax: (763) 541-1700
wsbeng.com
engineering · planning · environmental · construction

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

XX X. XX, PE

DATE XX. X, 2017 LIC. NO. XXXXX

SHAKOPEE

Prepared for:
City of Shakopee
129 Holmes Street S
Shakopee, Minnesota 55379
(952)-233-9300

CITY PROJECT NO.

SHEET NO. L1.0

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DESIGN REVIEW SET
NOT FOR CONSTRUCTION

NOTE:

REFER TO ELECTRICAL PLAN SHEETS FOR MODIFICATION REQUIREMENTS FOR EXISTING ELECTRICAL AND COMMUNICATION UTILITIES

GENERAL:

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION START. CONTRACTOR IS RESPONSIBLE FOR ALL LOCATES. ALL LOCATES SHALL BE REVIEWED BY THE OWNER/LA-E PRIOR TO CONSTRUCTION START.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES, UTILITIES, TREES, SITE AMENITIES, ETC. THAT ARE TO REMAIN FROM DAMAGE DURING CONSTRUCTION.

THE CONTRACTOR SHALL VERIFY W/THE OWNER THAT THE REQUIRED PERMITS ARE ISSUED PRIOR TO USE OF ACCESS POINTS.

CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGE TO EXISTING ITEMS TO REMAIN (AT CONTRACTOR'S EXPENSE) AND IS CONSIDERED INCIDENTAL TO THE CONTRACT.

DIMENSIONS TAKE PRECEDENCE OVER SCALE. DIMENSIONS ARE TO BACK OF CURB WHERE APPLICABLE, UNLESS STATED OTHERWISE. FIELD VERIFY (FV) ITEMS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

** ANY DISCREPANCIES FOUND THAT AFFECT THE WORK SHALL BE REPORTED TO THE OWNER/L.A.-E. FOR CLARIFICATION PRIOR TO ANY ADDITIONAL WORK BEING COMPLETED.

EROSION CONTROL REQUIREMENTS:

1. ALL STREETS IN AND ADJACENT TO THE PROJECT SHALL REMAIN CLEAN AND PASSABLE AT ALL TIMES. ADJACENT STREET AND CURB LINE TO BE SWEPT FREE OF DEBRIS AT THE END OF EACH WORK DAY, OR AS OFTEN AS NEEDED TO ENSURE PUBLIC SAFETY.
2. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PLACED AT ALL ENTRANCES THAT LEAD TO THE PROJECT SITE IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE APPROVED STANDARD DETAILS.
3. SEDIMENT CONTROLS MUST BE IN PLACE AND APPROVED BY THE ENGINEER BEFORE ANY PHASE OF CONSTRUCTION CAN BEGIN.
4. INLET PROTECTION WILL BE INSTALLED AT ALL CATCH INLETS WITHIN THE PROJECT AREA PER STANDARD DETAILS.
5. STABILIZATION OF DISTURBED AREAS SHALL BE DONE BY PERMANENT TURF ESTABLISHMENT WHENEVER POSSIBLE.
6. IN THE EVENT THAT PERMANENT STABALIZATION CANNOT BE IMPLEMENTED WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY IN THE DISTURBED AREA HAS CEASED, TEMPORARY STABILIZATION BMPS MUST BE SCHEDULED TO OCCUR WITHIN THAT 7 DAY TIME FRAME (EXCEPT WHERE CALLED OUT BY NOTE 7)
7. RAPID STABILIZATION METHOD 4 SHALL BE IMPLEMENTED THE LAST 200' OF THE NORMAL WETTEED PERIMETER OF ALL DRAINAGE POINTS WITHIN 24 HOUR, OR A SEDIMENT TRAP MUST BE INSTALLED PER THE APPROVED STANDARD DETAILS WITHIN 24 HOURS OF CONNECTING THE UTILITIES.
8. ALL STOCKPILES MUST HAVE PERIMETER SEDIMENT CONTROL IMPLEMENTED AND MAINTAINED AT ALL TIMES. STOCKPILES TO RECEIVE RAPID STABILIZATION METHOD 3 IF UNWORKED FOR 7 DAYS.
9. CONCRETE SLURRY FROM REMOVAL OPERATIONS MUST BE VACUUMED UP IMMEDIATELY. NO CONCRETE WASHOUT SHALL COME IN CONTACT WITH THE GROUND AND MUST BE PROPERLY DISPOSED OF.
10. CONTRACTOR TO BE RESPONSIBLE FOR ALL SEDIMENT AND EROSION CONTROL. ADDITIONAL EROSION CONTROL MAY BE ADDED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.
11. CONTRACTOR MUST SUBMIT A DEWATERING PLAN TO THE ENGINEER FOR APPROVAL 10 DAYS PRIOR TO ANY DEWATERING ON SITE. THE PLAN MUST INCLUDE A DEWATERING SYSTEM PRIOR TO DISCHARGING INTO RECEIVING WATER. THE DEWATERING PLAN MUST ENSURE THAT THE DISCHARGE WATER IS FREE OF SEDIMENT AND TURBID WATER IN ACCORDANCE WITH THE PROJECT SPEC. THE DEWATERING PLAN MUST ALSO INCLUDE A COMPONENT FOR ONSITE TESTING AND MONITORING OF TURBIDITY AND PH.
12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs MUST BE REMOVED UPON FINAL STABILIZATION.
13. REFER TO SHEET L4.0 FOR ADDITIONAL EROSION CONTROL MEASURES TO BE IMPLEMENTED WITH PROPOSED GRADING AND STORM SEWER.

CONSTRUCTION STAGING AND ACCESS AREAS:

THE OWNER SHALL FIELD VERIFY THE LOCATION OF CONSTRUCTION ACCESS AT THE TIME OF CONSTRUCTION.

THE CONTRACTOR SHALL VERIFY W/THE OWNER THAT THE REQUIRED CITY PERMITS ARE ISSUED PRIOR TO USE OF ACCESS POINTS.

THE CONTRACTOR SHALL ENSURE EXISTING ROADS REMAIN FREE OF MUD AND DEBRIS THROUGHOUT CONSTRUCTION.

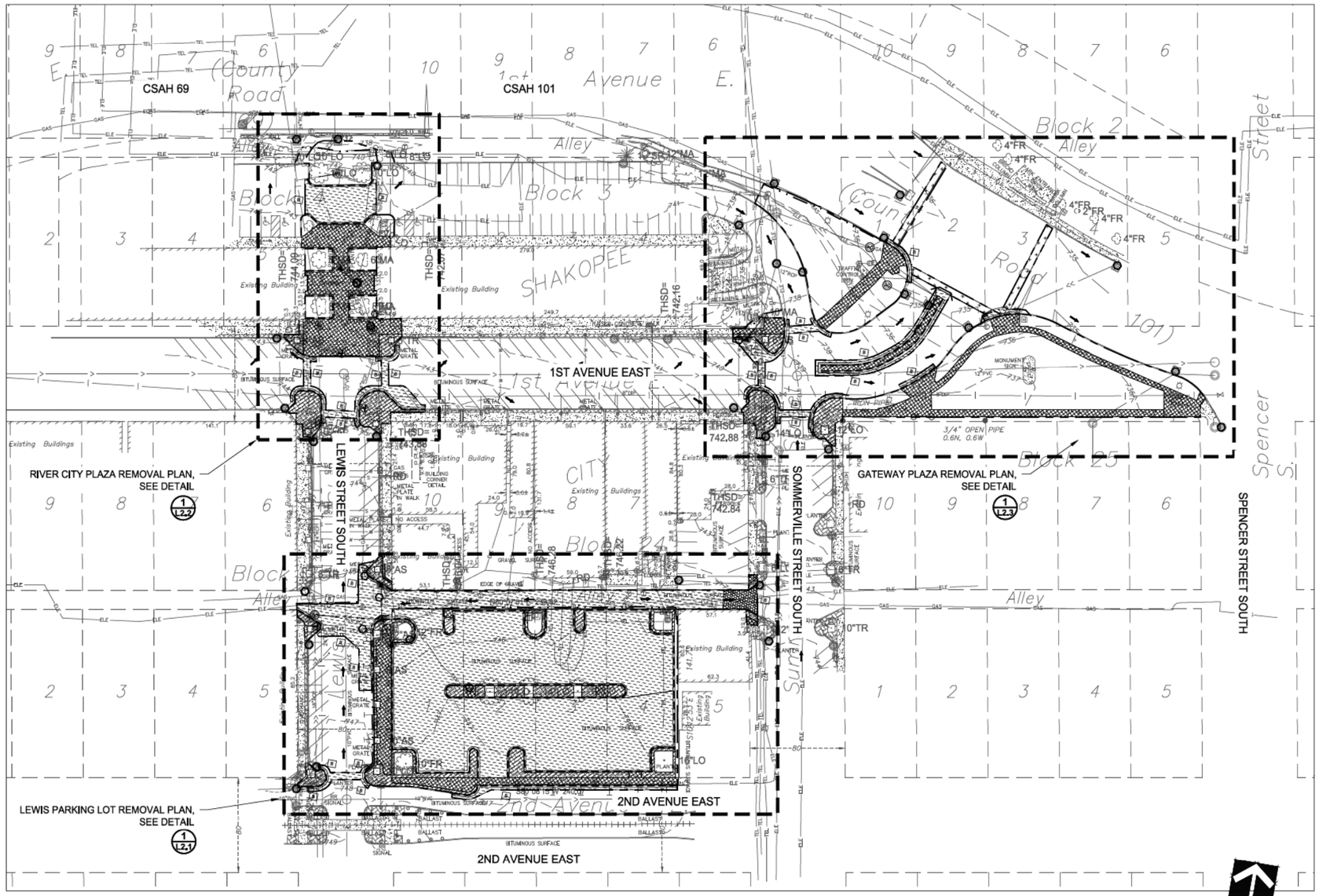
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

GENERAL SITE & VEGETATION REMOVALS:

ALL REMOVALS WILL BE COMPLETED BY THE CONTRACTOR, UNLESS SPECIFIED OTHERWISE. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL ITEMS OFF-SITE, UNLESS SPECIFICALLY APPROVED OTHERWISE BY LA-E.

ALL ITEMS AND TREES NOT SPECIFICALLY MARKED FOR REMOVAL OR RELOCATION SHALL REMAIN PROTECTED AND UNDISTURBED DURING CONSTRUCTION. ANY DAMAGE TO TREES AND ITEMS THAT ARE TO REMAIN SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.

THE CONTRACTOR IS RESPONSIBLE FOR CLEARING AND REMOVALS OF ALL PLANT MATERIALS, WHICH INCLUDES TREES, SHRUBS, GROUND COVERS, ETC. AND SHALL INCLUDE GRUBBING AND REMOVAL OF ALL STUMPS (TYP) AS DIRECTED BY THE LA-E/OWNER. CONTRACTORS OPTION TO RECLAIM AND SALVAGE ASPHALT PAVEMENT FOR RE-USE. VERIFY WITH OWNER LOCATIONS OF STOCKPILES.



1 / L2.0 **OVERALL REMOVALS PLAN**
SCALE: 1"= 50'

Scale: 1" = 50'

SCALE: AS NOTED
PLAN BY: DESIGN BY: EL
CHECKED BY: EL
PROJECT NO 1756-17
RECORD COPY BY: DATE

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

EMILY A. LUETH, P.E.
DATE: MAY XX, 2017 LIC. NO. 51773

DOWNTOWN IMPROVEMENTS
STREET & UTILITY CONSTRUCTION
SHAKOPEE, MINNESOTA

701 Xenia Avenue South, Suite 300
Minneapolis, MN 55416
Tel: (763) 541-4800 • Fax: (763) 541-1700
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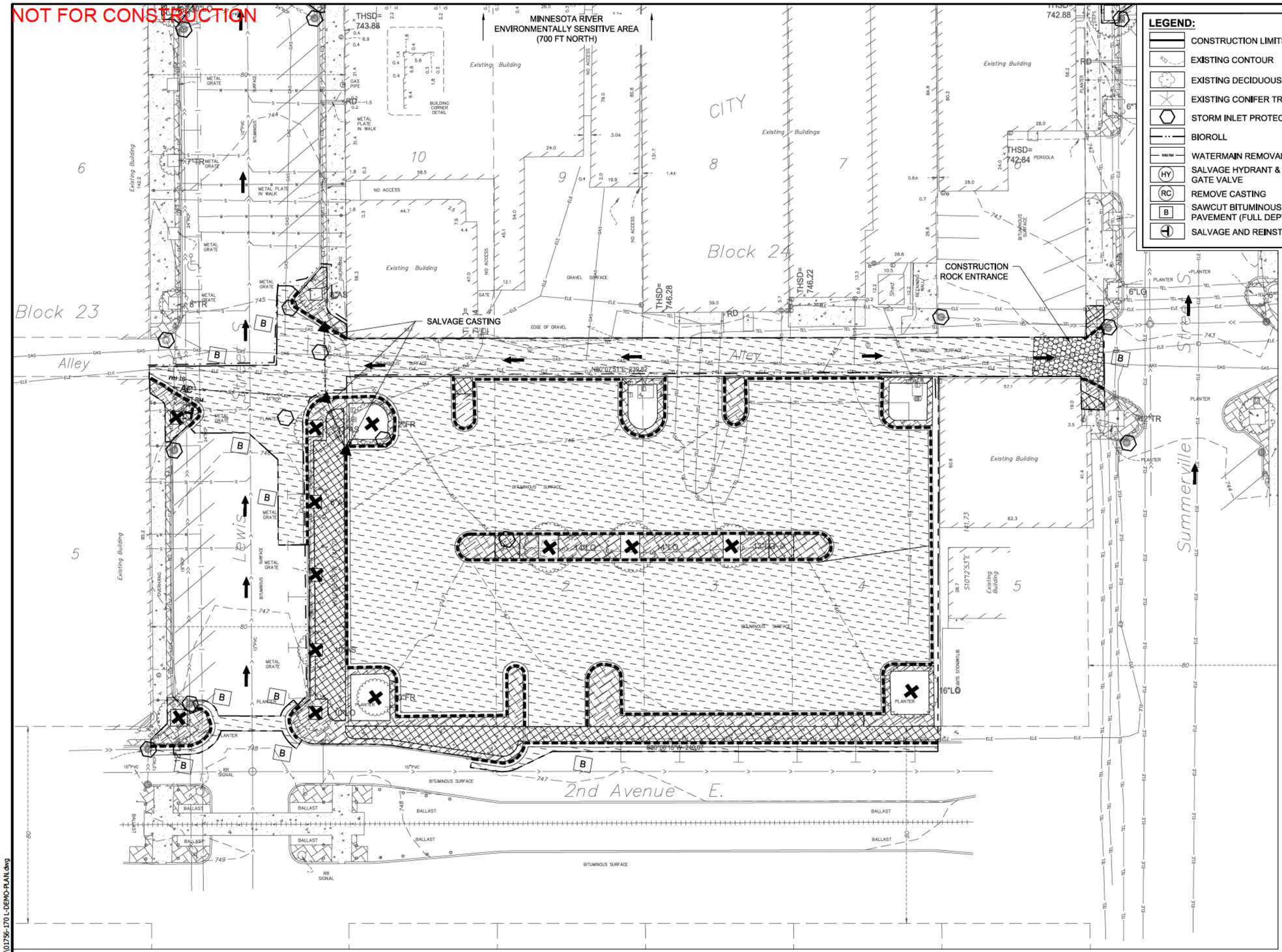
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CITY PROJECT NO.

OVERALL REMOVAL PLAN

SHEET L2.0

DESIGN REVIEW SET
NOT FOR CONSTRUCTION



LEGEND:

- CONSTRUCTION LIMITS
- EXISTING CONTOUR
- EXISTING DECIDUOUS TREE
- EXISTING CONIFER TREE
- STORM INLET PROTECTION
- BIOROLL
- WATERMAIN REMOVAL
- SALVAGE HYDRANT & REMOVAL GATE VALVE
- REMOVE CASTING
- SAWCUT BITUMINOUS PAVEMENT (FULL DEPTH)
- SALVAGE AND REINSTALL SIGN
- BITUMINOUS PAVEMENT REMOVAL
- MILL BITUMINOUS SURFACE (6.0")
- CONCRETE REMOVAL
- BRICK PAVER REMOVAL
- CURB AND GUTTER REMOVAL
- TREE REMOVAL
- STORM SEWER PIPE REMOVAL
- REMOVE STORM STRUCTURE
- ADJUST CASTING
- ADJUST GATE VALVE
- FLOW DIRECTION

Scale: 1" = 20'

1 / L2.1 LEWIS PARKING LOT REMOVAL PLAN
SCALE: 1"= 20'

REVISION NO.
DATE

SCALE: AS NOTED
PLAN BY: DESIGN BY: EL
CHECKED BY: EL
PROJECT NO. 1756-17
RECORD COPY BY: DATE

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EMILY A. LUETH, P.E.
DATE: MAY XX, 2017
LIC. NO. 51773

DOWNTOWN IMPROVEMENTS
STREET & UTILITY CONSTRUCTION
SHAKOPEE, MINNESOTA

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CITY PROJECT NO. | LEWIS PARKING LOT & ALLEY REMOVAL PLAN | SHEET L2.1

DESIGN REVIEW SET
NOT FOR CONSTRUCTION

MINNESOTA RIVER
ENVIRONMENTALLY SENSITIVE AREA
(300 FT NORTH)

LEGEND:

- CONSTRUCTION LIMITS
- EXISTING CONTOUR
- EXISTING DECIDUOUS TREE
- EXISTING CONIFER TREE
- STORM INLET PROTECTION
- BIOROLL
- WATERMAIN REMOVAL
- SALVAGE HYDRANT & REMOVAL GATE VALVE
- REMOVE CASTING
- SAWCUT BITUMINOUS PAVEMENT (FULL DEPTH)
- SALVAGE AND REINSTALL SIGN
- BITUMINOUS PAVEMENT REMOVAL
- MILL BITUMINOUS SURFACE (6.0")
- CONCRETE REMOVAL
- BRICK PAVER REMOVAL
- CURB AND GUTTER REMOVAL
- TREE REMOVAL
- STORM SEWER PIPE REMOVAL
- REMOVE STORM STRUCTURE
- ADJUST CASTING
- ADJUST GATE VALVE
- FLOW DIRECTION

SALVAGE CASTING

REMOVE BIKE RACK

1 L2.2 **RIVER CITY PLAZA REMOVAL PLAN**
SCALE: 1"= 20'

Scale: 1" = 20'

REVISION NO.	DATE

SCALE: AS NOTED
PLAN BY: | DESIGN BY: EL
CHECKED BY: EL | PROJECT NO 1756-17
RECORD COPY BY: | DATE

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EMILY A. LUETH, P.E.
DATE: MAY XX, 2017 | LIC. NO. 51773

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SHAKOPEE, MINNESOTA

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CITY PROJECT NO. | RIVER CITY PLAZA REMOVAL PLAN | SHEET L2.2

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DESIGN REVIEW SET
NOT FOR CONSTRUCTION

MINNESOTA RIVER
ENVIRONMENTALLY SENSITIVE AREA
(350 FT NORTH)

LEGEND:

- CONSTRUCTION LIMITS
- EXISTING CONTOUR
- EXISTING DECIDUOUS TREE
- EXISTING CONIFER TREE
- STORM INLET PROTECTION
- BIOROLL
- WATERMAIN REMOVAL
- SALVAGE HYDRANT & REMOVAL GATE VALVE
- REMOVE CASTING
- SAWCUT BITUMINOUS PAVEMENT (FULL DEPTH)
- SALVAGE AND REINSTALL SIGN
- BITUMINOUS PAVEMENT REMOVAL
- MILL BITUMINOUS SURFACE (6.0")
- CONCRETE REMOVAL
- BRICK PAVER REMOVAL
- CURB AND GUTTER REMOVAL
- TREE REMOVAL
- STORM SEWER PIPE REMOVAL
- REMOVE STORM STRUCTURE
- ADJUST CASTING
- ADJUST GATE VALVE
- FLOW DIRECTION

Block 2
Alley
(County Road 101)
Block 25
Existing Building
Existing Building
REMOVE SIGN (SPECIAL)
REMOVE BIKE RACK
SALVAGE CASTING
4"FR
2"FR
12"MA
10"MA
6"AS
14"LO
12"LO
6"TR
THSD= 742.16
THSD= 742.88
THSD= 742.84
TNH= 742.13
IRON PIPE 0.4N, 0.2W
3/4" OPEN PIPE 0.6N, 0.6W
RETAINING WALL
PERGOLA
PLANTER
METAL PLATE IN WALK
TRAFFIC CONTROL BOX
MONUMENT SIGN
BRICK COLUMN
PARK ENTRANCE
12"RCP
15"RCP
12"PVC
8"DIP

1 L2.3 **GATEWAY PLAZA REMOVAL PLAN**
SCALE: 1"= 20'

Scale: 1" = 20'

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EMILY A. LUETH, P.E.
DATE: MAY XX, 2017
LIC. NO. 51773

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PROJECT NO: 1756-17
RECORD COPY BY: DATE

REVISION NO. DATE

DOWNTOWN IMPROVEMENTS
STREET & UTILITY CONSTRUCTION
SHAKOPEE, MINNESOTA

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CITY PROJECT NO. | GATEWAY PLAZA REMOVAL PLAN | SHEET L2.3

DESIGN REVIEW SET
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STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

PROJECT LOCATION/DESCRIPTION

PROJECT/SITE NAME: CITY OF SHAKOPEE 2017 DOWNTOWN IMPROVEMENTS
PROJECT NUMBERS: 01756-170
PROJECT LOCATION: STREET: 1ST AVE E/2ND AVE E/LEWIS STREET/SUMMERVILE STREET CITY/TOWNSHIP: SHAKOPEE
COUNTY: SCOTT
STATE: MINNESOTA ZIP: 55379 LATITUDE/LONGITUDE: 44.798655/-93.525263

CONTACT INFORMATION/RESPONSIBLE PARTIES

THE CITY OF SHAKOPEE IS THE OWNER/PERMITTEE APPLYING FOR PERMIT COVERAGE AND WILL BE RESPONSIBLE FOR DEVELOPING THIS SWPPP AND THE LONG-TERM MAINTENANCE PLAN OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM FOR THIS PROJECT (IF APPLICABLE). THE OWNER WILL ENSURE THAT THE DESCRIBED WORK IN THE SWPPP IS BEING COMPLETED BY THE OPERATOR PERMITTEE.

OWNER/PERMITTEE: CITY OF SHAKOPEE (SAMANTHA DIMAGGIO/SDIMAGGIO@SHAKOPEEMN.GOV)
129 HOLMES ST.S.
SHAKOPEE, MN 55379

THE PRIMARY CONTRACTOR WILL ENTER INTO A CONTRACT WITH THE CITY OF SHAKOPEE TO COMPLETE THE REQUIRED WORK FOR THIS PROJECT. THE PRIMARY CONTRACTOR WILL BECOME (UNDER CONTRACT) THE OPERATOR CO-PERMITTEE ON THE NPDES PERMIT (THROUGH EXECUTION OF A NPDES PERMIT MODIFICATION FORM), AND THEREBY AGREE TO IMPLEMENT THIS SWPPP IN COOPERATION WITH THE OWNER. THE OPERATOR IS RESPONSIBLE FOR DEVELOPING A CHAIN OF RESPONSIBILITY PRIOR TO STARTING CONSTRUCTION (REFER TO SWPPP AMENDMENT SECTION). THE NPDES PERMIT MODIFICATION FORM SHALL BE SUBMITTED TO THE MPCA AFTER THE PROJECT IS AWARDED TO THE PRIMARY CONTRACTOR, PRIOR TO LETTING THE PROJECT.

THE OPERATOR WILL INSURE THAT INDIVIDUALS OVERSEEING OR IMPLEMENTING THE SWPPP HAVE BEEN PROPERLY TRAINED AND THAT CERTIFICATIONS WILL BE MADE AVAILABLE UPON REQUEST. THIS INCLUDES ANY SUB-CONTRACTORS THAT THE OPERATOR EMPLOYS UNDER SEPARATE CONTRACT. THE EROSION CONTROL SUPERVISOR SHALL HAVE AUTHORITY OVER ALL OPERATOR OPERATIONS WHICH INFLUENCE NPDES PERMIT COMPLIANCE, INCLUDING GRADING, EXCAVATION, CULVERT INSTALLATION, UTILITY WORK, CLEARING/GRUBBING, DEWATERING, AND ANY OTHER OPERATION THAT INCREASES THE EROSION POTENTIAL ON THE PROJECT.

THE OPERATOR WILL IMPLEMENT AND MAINTAIN BMPS FOR THE DURATION OF CONSTRUCTION PROJECT OR UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. THE OPERATOR WILL COMPLETE THE REQUIRED SITE INSPECTIONS, AND IS RESPONSIBLE FOR NPDES PERMIT REQUIREMENTS PART II.B, II.C, III.B-F, IV, V, AND APPLICABLE CONSTRUCTION ACTIVITY REQUIREMENTS FOUND IN APPENDIX A, PART C TO REMAIN IN COMPLIANCE WITH NPDES PERMIT.

OPERATOR/PERMITTEE: (TO BE DETERMINED)

THIS SWPPP WAS PREPARED BY AN INDIVIDUAL THAT HAS BEEN PROPERLY TRAINED IN ACCORDANCE TO PART III.F OF THE NPDES PERMIT (CERTIFICATION CARDS ARE AVAILABLE UPON REQUEST). WSB & ASSOCIATES WILL OFFER GUIDANCE FOR COMPLIANCE WITH THE NPDES PERMIT BEFORE, DURING, AND AFTER CONSTRUCTION OF THE PROJECT.



SWPPP DEVELOPER:
WSB & ASSOCIATES, INC. (PAUL JOHNSON)
701 XENIA AVE. SOUTH, SUITE 300
MINNEAPOLIS, MN 55416
763-762-2854 PJOHNSON@WSBENG.COM

WATER RESOURCES ENGINEER:
WSB & ASSOCIATES, INC. (JEFF SANDBERG)
701 XENIA AVE. SOUTH, SUITE 300
MINNEAPOLIS, MN 55416
763-229-1643 JSANBERG@WSBENG.COM

APPLICABLE FEDERAL, TRIBAL, STATE OR LOCAL PROGRAMS: THE MORE STRINGENT OF LOCAL VS. STATE VS. FEDERAL RULES SHALL APPLY WHERE THEY CONFLICT. THE OPERATOR IS RESPONSIBLE TO COMPLY WITH ALL APPLICABLE PERMITS, MNDOT SPECIAL PROVISION, MNDOT SPEC BOOK (2014 EDITION), AND MNDOT SPECIFICATIONS 1717.

AGENCY CONTACTS

AGENCY	PERMIT	NAME	PHONE NUMBER/E-MAIL
MPCA (EMERGENCY)	N/A	STATE DUTY OFFICER	1-800-422-0798
MPCA	NPDES-CSW **#C000TBD**	PAUL ERDMANN	651-757-2883/PAUL.ERDMANN@STATE.MN.US
SWCD	N/A	N/A	N/A
DNR	N/A	JENNIE SKANCKE	651-259-5790
BWSR	N/A	N/A	N/A

PROJECT DESCRIPTION & SCHEDULE

THIS PROJECT INCLUDES STREET AND DOWNTOWN RECONSTRUCTION IMPROVEMENTS. STREETS INCLUDED IN THE CONSTRUCTION PROJECT INLCUDE: 1ST AVE E, 2ND AVE E, LEWIS STREET, AND SUMMERVILLE STREET IN THE CITY OF SHAKOPEE, MINNESOTA.

TENTATIVE CONSTRUCTION SCHEDULE (OPERATOR SHOULD PROVIDE ESTIMATED CONSTRUCTION SCHEDULE TO THE ENGINEER)

CONSTRUCTION ACTIVITIES:	ESTIMATED DATES OF SOIL DISTURBANCE ACTIVITIES:
TEMPORARY ESC AND TRAFFIC CONTROL	MAY - JUNE 2017
REMOVALS	JUNE - JULY 2017
SITE CONSTRUCTION	JULY - NOVEMBER 2017
SUBSTANTIAL COMPLETION	NOVEMBER 2017- JUNE 2018

PRE-CONSTRUCTION IMPERVIOUS SURFACE AND DISTURBED AREA CALCULATIONS

TOTAL AREA TO BE DISTURBED = 2.0 ACRES
IMPERVIOUS AREA: PRE-CONSTRUCTION = 1.8 ACRES/POST-CONSTRUCTION = 1.5 ACRES
NET INCREASE OF IMPERVIOUS AREA = 0.3 ACRES

PERMANENT STORMWATER MANAGEMENT SYSTEMS

THE NPDES PERMANENT WATER QUALITY VOLUME (PART III.D) IS NOT REQUIRED, AS THE NET NEW IMPERVIOUS SURFACES CREATED BY THE PROJECT ARE LESS THAN ONE ACRE.

LOCATION OF SWPPP COMPONENTS

DESCRIPTION	TITLE	LOCATION
SWPPP NARRATIVE	SWPPP NARRATIVE	PLAN SHEET
SITE CONDITIONS	SWPPP NARRATIVE	PLAN SHEET
SITE MAP	SWPPP NARRATIVE	PLAN SHEET
CONSTRUCTION PHASING/STAGING, BUFFERS, & AREAS NOT TO BE DISTURBED	SWPPP NARRATIVE	PLAN SHEET
DIRECTION OF FLOW (PRE-/POST-CONSTRUCTION)	DRAINAGE PLAN	PLAN SHEET
IMPERVIOUS SURFACES	CONSTRUCTION PLAN & PROFILE	PLAN SHEET
TEMPORARY EROSION & SEDIMENT CONTROL BMPS/STEEP SLOPES (3:1),	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN, SWPPP NARRATIVE	PLAN SHEET
PERMANENT EROSION CONTROL BMPS	TURF ESTABLISHMENT PLAN, SWPPP NARRATIVE	PLAN SHEET
STORM SEWER	DRAINAGE PLAN	PLAN SHEET
GRADING	GRADING PLAN	PLAN SHEET
ESTIMATED BMP QUANTITIES	ESTIMATED QUANTITIES	PLAN SHEET
BMP DETAILS/SPECIFICATIONS	MISC. DETAILS, SWPPP NARRATIVE	PLAN SHEET
HYDROLOGIC/WATER QUALITY MODELING	AVAILABLE UPON REQUEST	

EXISTING SITE CONDITIONS, SOILS, & WATER RESOURCES

SOILS AND NATIVE TOPSOIL: THE PROJECT AREA IS COMPRISED OF A DEVELOPED DOWNTOWN COMMERCIAL SETTING. NATIVE TOPSOIL WILL BE STRIPPED AND STOCKPILED OFF-SITE FOR FINAL GRADING OPERATIONS, WHERE INDICATED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS. METHODS AND EQUIPMENT TO MINIMIZE SOIL COMPACTION (IN PROPOSED INFILTRATION AREAS, DRIP LINE OF TREES TO BE PRESERVED, ETC.) SHALL BE DETERMINED BY THE OPERATOR'S SWPPP AMENDMENT. TRACKED VEHICLES ARE PREFERRED AND WHEELED VEHICLES ARE DISCOURAGED IN THESE AREAS.

USDA-NRCS MAPPED SOIL SURVEY UNIT NO., NAME, TEXTURE, SLOPE PERCENTAGE	PERCENTAGE OF PROJECT AREA	APPROXIMATE PARTICLE SIZE RANGE *(MM)*		
		SAND (0.05-2.00+)	SILT (0.002-0.05)	CLAY (<0.002)
HEB SPARTA LOAMY FINE SAND, 2-6% SLOPES	93.90	70-85%	0-30%	10-30%
SC STONY LAND	6.1	N/A	N/A	N/A

DESCRIPTION OF RECEIVING WATERS (LOCATED WITHIN 1-MILE): STORMWATER FROM THIS PROJECT WILL BE CONVEYED TO AREA STORMWATER CATCH BASINS LOCATED WITHIN AND ADJACENT TO THE PROJECT AREAS. STORMWATER WILL FLOW NORTH INTO A STORMWATER TREATMENT POND PRIOR TO ENTERING INTO THE MINNESOTA RIVER (WHEN STORMPOND LEVELS REACH EMERGENCY OVERFLOW ELEVATIONS).

DESCRIPTION OF IMPAIRED WATERS OR WATER SUBJECT TO TMDLS: A SPECIAL AND IMPAIRED WATERS SEARCH WAS COMPLETED USING THE MPCA SEARCH ENGINE (HTTP://PCA-GIS02.PCA.STATE.MN.US/CSW/INDEX.HTML) ON 4/19/17. BASED ON THIS REVIEW, THE FOLLOWING SPECIAL OR IMPAIRED WATERS (WITH CONSTRUCTION RELATED IMPAIRMENTS) ARE LOCATED WITHIN ONE MILE OF, AND DOWNSTREAM OF ANY PROJECT DISCHARGE POINTS: MINNESOTA RIVER (07020012-505) IS IMPAIRED FOR (TURBIDITY), THEREFORE APPENDIX A, PART C.1, C.2 REQUIREMENTS APPLY TO THIS PROJECT. BLUFF CREEK WAS ALSO IDENTIFED AS IMPAIRED FOR (TURBIDITY) BUT THE PROJECT DOES NOT DISCHARGE TO THIS WATERBODY.

POTENTIAL FOR SEDIMENT AND/OR OTHER POLLUTANT(S) DISCHARGING FROM THE PROJECT SITE

THE TEMPORARY EROSION AND SEDIMENT CONTROL BMPS IN THIS SWPPP HAVE BEEN DESIGNED TO MINIMIZE THE POTENTIAL OF SEDIMENTS DISCHARGING OFF-SITE FROM A 0.5 INCH RAINFALL WITHIN A 24 HOUR PERIOD. THE NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATE FOR THE PROJECT LOCATION WAS REVIEWED AND USED FOR ANTICIPATED INSPECTION FREQUENCY, BMP DESIGN, AND ESTIMATING CONSTRUCTION ACTIVITIES IN THIS SWPPP. ATLAS 14 RESULTS DO NOT NECESSARILY REFLECT ANY DESIGN CRITERIA IN THE PERMANENT STORMWATER MANAGEMENT SYSTEM.

ROUTINE INSPECTION AND BMP MAINTENANCE BY THE OPERATOR IS CRUCIAL IN ENSURING THE FUNCTIONALITY OF EACH BMP. STEEP SLOPES AND OTHER ENVIRONMENTALLY SENSITIVE AREAS THAT ARE AT A HIGHER RISK OF SEDIMENTATION ARE DEFINED IN THE SWPPP (IF APPLICABLE).

CONSTRUCTION PHASING/STAGING, BUFFERS, & AREAS NOT TO BE DISTURBED

THE PRESERVED AREAS OF EXISTING VEGETATION WILL BE IDENTIFIED ON THE PLAN SHEETS AS "DO NOT DISTURB AREA". THE OPERATOR IS RESPONSIBLE FOR PRESERVING A 50 FOOT NATURAL BUFFER OR (IF INFEASIBLE) PROVIDE REDUNDANT SEDIMENT CONTROL BMPS, WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET AND RECEIVES DRAINAGE FROM THE PROJECT'S GRADING LIMITS. THIS REQUIREMENT DOES NOT APPLY TO ADJACENT ROAD SIDE DITCHES, JUDICIAL/COUNTY DITCHES, STORMWATER CONVEYANCES, STORM DRAIN INLETS, OR SEDIMENT BASINS.

REVISION NO: DATE:
SCALE: AS NOTED
PLAN BY: DESIGN BY: EL
CHECKED BY: EL PROJECT NO 1756-17 DATE
RECORD COPY BY: DATE

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
EMILY A. UETH, P.E.
DATE: MAY XX, 2017 LIC. NO. 51773

DOWNTOWN IMPROVEMENTS
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CITY PROJECT NO. SWPPP SHEET L2.4

DESIGN REVIEW SET
NOT FOR CONSTRUCTION

CONSTRUCTION PHASING OR STAGING SHALL BE DEFINED BY THE CONTRACTOR FOR THIS PROJECT. THE SCHEDULE FOR INSTALLING TEMPORARY BMPS SHALL BE INCORPORATED INTO THE OPERATOR'S WEEKLY SCHEDULE FOR EACH CONSTRUCTION STAGE AND PRESENTED TO THE OWNER'S REPRESENTATIVE (PER MNDOT SPEC 1717.D). THE PROJECT'S CONSTRUCTION PHASING AND STAGING IS DEFINED BY THE "CONSTRUCTION STAGING & TRAFFIC CONTROL PLAN" AND PROJECT SPECIFICATIONS.

ENVIRONMENTALLY SENSITIVE AREAS

MINNESOTA RIVER: THE MINNESOTA RIVER IS LOCATED TO THE NORTH OF THE PROJECT AREA. STORMWATER FROM THE PROJECT AREA DRAINS NORTH INTO A STORMPOND AND THEN OVERFLOWS AND OUTLETS TO THE MINNESOTA RIVER. ADEQUATE BMPS SHALL BE IN PLACE AND MAINTAINED AT ALL TIMES DURING THE PROJECT.

CONTAMINATED PROPERTIES: THE MPCA'S "WHAT'S IN MY NEIGHBORHOOD" DATABASE (PCA-GIS02.PCA.STATE.MN.US/WIMN2/INDEX.HTML) WAS REVIEWED ON 4/19/17. THE RESULTS OF THIS REVIEW SHOW NO KNOWN CONTAMINATED PROPERTIES OR LEAK SOURCES LOCATED WITHIN OR ADJACENT TO THE PROJECT LIMITS. NO PRE-EXISTING HAZARDOUS MATERIALS OR WASTES ARE ANTICIPATED TO BE IMPACTED BY THE PROJECT.

STORMWATER POLLUTION MITIGATION MEASURES (AS IDENTIFIED FROM ENVIRONMENTAL REVIEW): NO FORMAL ENVIRONMENTAL REVIEW WAS REQUIRED FOR THIS PROJECT; THEREFORE, NO ADDITIONAL STORMWATER RELATED MITIGATION MEASURES APPLY.

KARST AREAS: THERE ARE NO KNOWN KARST AREAS IDENTIFIED WITHIN THE PROJECT LIMITS.

SITE PLAN REQUIRED AREAS: THE MINNESOTA RIVER WAS IDENTIFIED AS AN AREA OF "HIGH ENVIRONMENTAL RISKS" AND IS LOCATED TO THE NORTH OF THE PROJECT LIMITS. IN ADDITION, THE MINNESOTA RIVER IS A DISCHARGE POINT FOR STORMWATER FROM THE PROJECT AREA. THE OPERATOR SHALL SUBMIT A SITE PLAN FOR THE SITES IDENTIFIED AS ENVIRONMENTALLY SENSITIVE IN THE PLAN SHEETS AT THE REQUEST OF THE PROJECT ENGINEER. EACH SITE PLAN MUST DETAIL PROPOSED ACTIVITIES, CORRESPONDING SCHEDULING, STAGING, TEMPORARY EROSION AND SEDIMENT CONTROLS, AND BMP DETAILS PER SECTION 1717 OF THE MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION. SITE PLANS MUST BE APPROVED BY PROJECT ENGINEER PRIOR TO INITIATING THE SPECIFIED WORK WITHIN EACH SITE PLAN AREA.

FLOOD CONTINGENCY PLAN: NO PROJECT ACTIVITIES ARE LOCATED WITHIN A 100-YEAR FLOODPLAIN OR FLOODWAY THEREFORE A FLOOD CONTINGENCY PLAN IS NOT REQUIRED. THE PROJECT ENGINEER (AT THEIR DISCRETION) MAY REQUIRE A PREVENTATIVE FLOOD CONTINGENCY PLAN FOR SPECIFIC PROJECT ACTIVITIES AND AREAS THAT ARE NOT LOCATED IN A 100-YEAR FLOODPLAIN OR FLOODWAY.

FISH EXCLUSION DATES: FISH EXCLUSION DATES DO NOT APPLY TO THIS PROJECT.

AQUATIC INVASIVE SPECIES: N/A

WETLANDS: THERE ARE NO WETLAND IMPACTS PROPOSED WITH THIS PROJECT.

INSPECTION, SWPPP AMENDMENTS, RECORD KEEPING, & TRAINING

1. THE SWPPP CHAIN OF RESPONSIBILITY MUST BE AMENDED BY THE OPERATOR WHEN THE IDENTITY OF RESPONSIBLE SITE OPERATORS (EROSION CONTROL SUPERVISOR, SUB-CONTRACTORS, ETC.) ARE KNOWN.
2. THE OPERATOR MUST INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. THE OPERATOR SHALL PROVIDE A RAINFALL GAUGE ON-SITE, WITHIN ONE MILE OF THE SITE, OR SOURCE OF THE WEATHER REPORTING SYSTEM THAT USES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES. THE LOCATION AND SOURCE OF THE RAINFALL GAUGE OR REPORTING SYSTEM MUST BE DOCUMENT IN THE FIRST SWPPP INSPECTION REPORT. THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE PER MONTH, IF SITE CONDITIONS MEET PART IV.E.3 OF THE NPDES PERMIT. ALL INSPECTIONS AND MAINTENANCE CONDUCTED MUST BE RECORDED IN WRITING BY THE OPERATOR AND RETAINED WITH THE SWPPP. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY SHALL INCLUDE:
   A. DATE, TIME, AND NAME OF PERSON(S) CONDUCTING INSPECTIONS;
   B. FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS;
   C. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); INCLUDING DOCUMENTATION/PHOTOS OF IMPLEMENTED BMPS INTENDED TO CORRECT A PROBLEM BUT FAILED.
   D. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES) IN 24 HOURS;
   E. DOCUMENTATION OF CHANGES MADE TO THE SWPPP.
3. SWPPP AMENDMENTS AND SITE PLANS WILL BE PREPARED BY THE OPERATOR AND SUBMITTED TO THE OWNER FOR REVIEW AND WRITTEN APPROVAL BY THE PROJECT OWNER (OR DESIGNATED REPRESENTATIVE). ALL OWNER ACCEPTED AND DENIED SWPPP AMENDMENTS AND SITE PLANS MUST BE RECORDED IN WRITING RETAINED WITH THE SWPPP.
4. THE SWPPP SHALL BE AMENDED TO INCLUDE ADDITIONAL OR MODIFIED BMPS, DESIGNED TO CORRECT IDENTIFIED PROBLEMS OR ADDRESS SITUATIONS (UNDER PART III.B OF THE NPDES PERMIT), PRIOR TO CONDUCTING SPECIFIC STAGES/PHASES OF THE PROJECT, AS REQUIRED BY THE OWNER AND DEFINED IN THIS PROJECT SWPPP.
5. THE SWPPP (ORIGINAL OR COPIES), ALL CHANGES TO THE SWPPP, PROJECT MANUAL, AND INSPECTIONS/MAINTENANCE RECORDS MUST BE KEPT AT THE SITE DURING CONSTRUCTION BY THE OPERATOR WHO HAS OPERATIONAL CONTROL OF THAT PORTION OF THE SITE. THE SWPPP CAN BE KEPT IN THE FIELD OFFICE OR ON-SITE VEHICLE DURING NORMAL WORKING HOURS.
6. THE OPERATOR MUST ASSIGN A TRAINED INDIVIDUAL(S) (PURSUANT TO PARTS III.A.3 & III.F) TO OVERSEE THE IMPLEMENTATION, MAINTENANCE, AND REPAIR OF BMPS. THIS INDIVIDUAL(S) SHALL ALSO PERFORM INSPECTIONS, REVISE/AMEND THE SWPPP (DOCUMENT IN SWPPP AS NECESSARY), AND BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE PERMITTED OWNER (OR ITS DESIGNEE), LOCAL GOVERNMENT UNITS, OR MPCA.

POLLUTION PREVENTION MANAGEMENT MEASURES

POTENTIAL SOURCES OF POLLUTANTS FROM CONSTRUCTION ACTIVITIES INCLUDE:

- SEDIMENT AND FUGITIVE DUST GENERATED FROM CLEARING AND GRUBBING, IMPORT/EXPORT OPERATIONS, REMOVALS/COMPACTION, MASS/FINE GRADING, EXCAVATIONS, TRENCHING, TOPSOIL STRIPING STOCKPILING, WET/DRY PAVEMENT CUTTING, STREET CONSTRUCTION.
- BASIC/ACIDIC PH LEVELS FROM CURB AND GUTTER, MANHOLE STRUCTURES, SIDEWALKS, DRIVEWAY APRONS, FOUNDATIONS, BRIDGE ABUTMENTS, WET/DRY PAVEMENT CUTTING, MASONRY WASHOUT/CLEANOUT.
- EXCESS NUTRIENTS FROM LANDSCAPING INSTALLATIONS, SOIL ADDITIVES, FERTILIZATION, MULCHING.
- HYDROCARBONS FROM STREET CONSTRUCTION, DEMOLITION/REMOVALS, WET/DRY PAVEMENT CUTTING.

OPERATOR WILL COMPLY WITH ALL OF THE POLLUTION PREVENTION AND MANAGEMENT MEASURES IDENTIFIED IN THE NPDES-CSW PERMIT, PART IV.F.1-4. IN ADDITION, OPERATOR WILL COMPLY WITH STATE RULE 7011.0150 ON DUST PREVENTION REQUIREMENTS. OPERATOR WILL SUBMIT A SPILL PREVENTION AND RESPONSE PLAN (SPRP) TO THE ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY. STORAGE AND DISPOSAL OF CONSTRUCTION AND HAZARDOUS WASTES MUST BE IN COMPLIANCE WITH MPCA REGULATIONS.

CONSTRUCTION ACTIVITY REQUIREMENTS (PART IV.): EROSION CONTROL, PROCEDURES, & MAINTENANCE STANDARDS

THE OPERATOR IS RESPONSIBLE FOR THE INSTALLATION, OPERATION, AND CONTINUED MAINTENANCE OF ALL TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMPS, AS WELL AS ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS, FOR THE DURATION OF THE CONSTRUCTION WORK AT THE SITE, UNTIL FINAL STABILIZATION IS ACHIEVED. ALL BMPS MUST BE ADEQUATELY LOCATED, DESIGNED, INSTALLED, AND MAINTAINED TO PREVENT EROSION FROM A MINIMUM 0.5 INCH TOTAL RAINFALL EVENT WITHIN 24 HOURS.

ALL NONFUNCTIONAL BMPS MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS UNLESS ANOTHER TIME FRAME IS SPECIFIED IN THE SWPPP. ALL ERODED MATERIAL THAT LEAVES THE SITE SHALL BE COLLECTED BY THE OPERATOR AND RETURNED TO THE SITE AT THE OPERATOR'S EXPENSE AND INCIDENTAL TO THE PROJECT COST.

TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED AS SOON AS POSSIBLE, BUT NO LATER THAN THE END OF THE NEXT WORK DAY FOLLOWING THE DAY EARTH-DISTURBING ACTIVITIES IN THAT PORTION OF THE SITE HAS TEMPORARILY OF PERMANENTLY CEASED. ALL EXPOSED SOIL AREAS SHALL BE STABILIZED WITHIN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. INITIATED STABILIZATION IS DEFINED AS COMPLETING ONE (OR MORE) OF THE FOLLOWING: SOIL PREPARATION FOR VEGETATION, MULCHING (OR OTHER TEMPORARY NON-VEGETATIVE BMP), SEEDING/PLANTING, OR SCHEDULING STABILIZATION MEASURES TO BE FULLY INSTALLED AND COMPLETED WITHIN THE 7 DAY TIMEFRAME.

ALL EXPOSED SOILS WITHIN 200 FEET AND DRAINING TO A DNR PUBLIC WATERS MUST BE STABILIZED WITHIN 24 HOURS OF TEMPORARILY OR PERMANENTLY CEASING WORK DURING THE FISH SPAWNING PERIOD. TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY, OR ORGANIC COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES) AND THE CONSTRUCTED BASE COMPONENTS OF ROADS, PARKING LOTS AND SIMILAR SURFACES ARE EXEMPT FROM THIS REQUIREMENT.

TEMPORARY & PERMANENT EROSION CONTROL BMPS

RAPID STABILIZATION METHOD #2: THIS METHOD SHALL CONSIST OF 3884, TYPE HYDRAULIC MULCH PLACED AT 750 LB/ACRE (835 KG/HA) AND SHALL BE USED FOR TEMPORARY STABILIZATION OF EXPOSED SOILS UNTIL PERMANENT STABILIZATION METHODS ARE INCORPORATED.

RAPID STABILIZATION METHOD #4: THIS METHOD SHALL CONSIST OF CATEGORY 3 EROSION CONTROL BLANKET (NATURAL NET ONLY) IN COMBINATION WITH MNDOT SEED MIX 22-111 (2 LBS PER 100 SQ. YD.) AND TYPE 3 SLOW RELEASE FERTILIZER (8 LBS PER 100 SQ. YD.). THIS IS AN ACCEPTABLE BMP FOR DISTURBED AREAS ADJACENT TO ENVIRONMENTALLY SENSITIVE AREAS, SURFACE WATERS, AND WITHIN THE LAST 200 FEET OF DITCH BOTTOMS AND DISCHARGE POINTS.

SOD: SOD WITH APPROPRIATE MNDOT FERTILIZER WILL BE USED AS PERMANENT COVER FOR ALL EXPOSED GROUND AREAS OF THE PROJECT PER MANUFACTURERS SPECIFICATION.

STORM SEWER OUTLETS: PIPE OUTLETS MUST HAVE TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS AFTER HYDRAULIC CONNECTION TO A RECEIVING SURFACE WATER. A CLASS II ROCK RIP-RAP AND CLASS III GEOTEXTILE SHALL BE INSTALLED.

CONSTRUCTION ACTIVITY REQUIREMENTS (PART IV.): SEDIMENT CONTROL, PROCEDURES, & MAINTENANCE STANDARDS

PERIMETER CONTROL BMPS SHALL BE INSTALLED ON ALL DOWN GRADIENT PERIMETERS AND UPGRADIENT OF ANY BUFFER AREAS, PRIOR TO INITIATING UPGRADIENT LAND DISTURBANCE ACTIVITIES. UPLAND PERIMETER CONTROLS BMPS SHALL BE PLACED AS CLOSE AS POSSIBLE TO FOLLOW A SINGLE CONTOUR ELEVATION. ALL SILT FENCES MUST BE REPAIRED, REPLACED, OR MAINTAINED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE FENCE. ALL REPAIRS MUST BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS. FLOATING SILT CURTAIN SHALL BE INSTALLED AS CLOSE TO THE SHORELINE AS POSSIBLE FOR SHORELAND/IN-WATER SHORT-TERM CONSTRUCTION ACTIVITIES. AFTER THE SHORT-TERM ACTIVITY IS COMPLETE, AN UPLAND PERIMETER CONTROL MUST BE INSTALLED IF EXPOSED SOILS CONTINUE TO DRAIN TO THE SURFACE WATER.

SURFACE WATERS INCLUDING OFF-SITE AND DOWNSTREAM DRAINAGE DITCHES, CATCH BASINS, AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. THE REMOVAL AND STABILIZATION OF EXPOSED SOILS MUST TAKE PLACE WITHIN SEVEN (7) DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. IF PRECLUDED, REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN (7) CALENDAR DAYS OF OBTAINING ACCESS. THE PERMITTEES ARE RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE, AND FEDERAL AGENCIES AND RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK.

IF THE DOWN GRADIENT TREATMENT SYSTEM IS OVERLOADED, ADDITIONAL UP GRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPS MUST BE INSTALLED TO ELIMINATE THE OVERLOADING, AND THE SWPPP MUST BE AMENDED TO IDENTIFY THESE ADDITIONAL PRACTICES.

TEMPORARY & PERMANENT SEDIMENT CONTROL BMPS

SEDIMENT CONTROL LOGS: SEDIMENT CONTROL LOGS WILL BE STAKED IN ACCORDANCE TO THE PLAN SHEETS WHERE THE SITE SLOPES OFF OF THE PROJECT LOCATION AT A 1:3 OR LESS, AS WELL AS AROUND TEMPORARY STOCKPILES AND WETLANDS, AND ALONG STREET EDGES AND PROJECT LIMIT EDGES THAT ARE DISTURBED. SEDIMENT CONTROL LOGS WILL BE CLEANED OUT OR REPLACED WHEN THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE ROLL.

MACHINE SLICED SILT FENCE: SILT FENCE WILL BE PLACED IN ACCORDANCE TO THE PLAN SHEETS WHERE THE SITE SLOPES OFF OF THE PROJECT LOCATION AT MORE THAN 1:3 GRADIENT AS WELL AS NEAR CRITICAL WETLAND AREAS WITH A SECONDARY REDUNDANT BMP. THE BMP WILL BE CLEANED OUT OR REPLACED WHEN THE SEDIMENT REACHES 1/2 THE HEIGHT OF THE FENCE.

REVISION NO.
DATE

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PROJECT NO 1756-17
RECORD COPY BY:
DATE

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

EMILY A. UETH, P.E.
DATE: MAY XX, 2017
LIC. NO. 51773

DOWNTOWN IMPROVEMENTS
STREET & UTILITY CONSTRUCTION
SHAKOPEE, MINNESOTA

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CITY PROJECT NO.

SWPPP

SHEET L2.5

DESIGN REVIEW SET
NOT FOR CONSTRUCTION

FLOTATION SILT CURTAIN: A FLOATATION SILT CURTAIN SHALL BE IN PLACE AT DISCHARGE POINTS TO THE MINNESOTA RIVER PRIOR TO ANY STARTUP OF CONSTRUCTION ACTIVITIES.

TEMPORARY SEDIMENTATION BASINS: WHERE 5 OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION, A TEMPORARY SEDIMENT BASIN MUST BE PROVIDED PRIOR TO RUNOFF LEAVING THE CONSTRUCTION SITE OR ENTERING SURFACE WATERS. ALL TEMPORARY BASINS SHALL BE CONSTRUCTED AND OPERATIONAL PRIOR TO GRADING 5 OR MORE ACRES. BASINS MUST PROVIDE A LIVE STORAGE VOLUME FROM A 2-YEAR 24-HOUR STORM EVENT FROM EACH ACRE (DISTURBED AND UNDISTURBED) DRAINING TO THE BASIN. AT A MINIMUM, IF CALCULATIONS ARE NOT PERFORMED THE BASIN SHALL PROVIDE 3,600 CUBIC FEET OF LIVE STORAGE FROM EACH ACRE. THE BASIN INTAKE MUST BE DESIGNED TO WITHDRAW WATER FROM THE SURFACE, PREVENT SHORT CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS, INCLUDE AN EMERGENCY OVERFLOW ABOVE THE LIVE STORAGE ELEVATION, AND PROVIDE ENERGY DISSIPATION AT THE BASIN OUTLET. BASINS MUST BE DRAINED AND SEDIMENT REMOVED WHEN THE DEPTH OF COLLECTED SEDIMENT IN THE BASIN REACHES 1/2 THE LIVE STORAGE VOLUME. DRAINAGE AND REMOVAL MUST BE COMPLETED WITHIN 72 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS. IF A BASIN IS INFEASIBLE WITHIN THE PROJECT LIMITS, EQUIVALENT SEDIMENT CONTROL BMPS MUST BE IMPLEMENTED AND DOCUMENTED IN THE SWPPP OR SWPPP AMENDMENT.

TEMPORARY STOCKPILES: ALL STOCKPILES MUST HAVE SILT FENCE OR EQUIVALENT PERIMETER SEDIMENT CONTROLS IMPLEMENTED AND MAINTAINED AT ALL TIMES. PILES CANNOT BE PLACED IN BUFFER AREAS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITCHES UNLESS THERE IS A BYPASS IN PLACE TO PREVENT STORMWATER RUN-ON INTO THE STOCKPILE.

CONSTRUCTION SITE ENTRANCE/VEHICLE TRACKING: OPERATOR MUST MINIMIZE SEDIMENT FROM LEAVING THE CONSTRUCTION SITE (OR ONTO STREETS WITHIN THE SITE) BY IMPLEMENTING BMPS SUCH AS ROCK PADS, SLASH MULCH, CONCRETE OR STEEL WASH RACKS, OR EQUIVALENT SYSTEMS. STREET SWEEPING MUST BE USED DAILY DURING CONSTRUCTION OPERATIONS IF SUCH BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE STREET. TRACKED SEDIMENT MUST BE REMOVED FROM ALL PAVED SURFACES (ON AND OFF-SITE) WITHIN 24 HOURS OF DISCOVERY, OR SOONER AS DIRECTED BY THE PROJECT OWNER. MULTIPLE STREET SWEEPINGS AT THE OPERATOR'S EXPENSE MAY BE REQUIRED ON ALL ENTRY/EXIT POINTS TO THE SITE AT THE DISCRETION OF THE PROJECT OWNER.

INLET PROTECTION: ALL STORM DRAIN INLETS (INCLUDING DOWN GRADIENT, OFF-SITE) MUST BE PROTECTED BY APPROPRIATE BMPS DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED. SILT FENCE IS NOT AN ACCEPTABLE CATCH BASIN INLET PROTECTION BMP. CONTACTOR SHALL CLEAN, REMOVE AND DISPOSE OF SEDIMENT, AND/OR REPLACE STORM DRAIN INLET PROTECTION ON A ROUTINE BASIS TO ENSURE THE DEVICE IS FULLY FUNCTIONAL PRIOR TO THE NEXT FORECASTED PRECIPITATION EVENT (30% OR GREATER). INLET PROTECTION MAY BE REMOVED FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (STREET FLOODING/FREEZING) HAS BEEN IDENTIFIED AND THE PERMITTEE(S) HAS RECEIVED WRITTEN CORRESPONDENCE FROM THE JURISDICTIONAL AUTHORITY (E.G. CITY/COUNTY/TOWNSHIP/MNDOT ENGINEER) VERIFYING THE NEED FOR REMOVAL. WRITTEN CORRESPONDENCE MUST BE DOCUMENTED IN THE SWPPP AND AVAILABLE WITHIN 72 HOURS UPON REQUEST. PERMISSION TO REMOVE INLET PROTECTION BASED ON A SPECIFIC SAFETY CONCERN MUST STILL BE OBTAINED FROM THE LOCAL JURISDICTIONAL AUTHORITY WITHIN 30 DAYS OF REMOVAL.

CHEMICAL TREATMENTS: OPERATOR MUST AMEND THE SWPPP TO INCLUDE THE INTENDED USES AND LOCATIONS OF FLOCCULANTS, POLYMERS, AND OTHER SEDIMENTATION TREATMENT CHEMICALS. CHEMICAL TREATMENTS MAY ONLY BE APPLIED IN AREAS WHERE TREATED STORMWATER IS DIRECTED TO A RECEIVING SEDIMENT CONTROL SYSTEM (NOT DIRECTLY DISCHARGED TO NATURAL WATER BODIES). THIS INCLUDES DOCUMENTING THE EXPECTED SOIL TYPES, MANUFACTURER'S RECOMMENDED DOSING, APPLICATION RATES/QUANTITIES, AND MONITORING RESULTS (TURBIDITY, PH).

TEMPORARY/PERMANENT DRAINAGE DITCHES & SWALES: THE NORMAL WETTED PERIMETER (2-YEAR, 24-HOUR PRECIPITATION EVENT) OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH, CHANNEL, OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, MUST BE STABILIZED WITHIN THE LAST 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER WITHIN 24 HOURS OF CONNECTION. THE REMAINING PORTIONS OF THE CHANNEL MUST BE STABILIZED WITHIN 14 DAYS. ALL STORMWATER CONVEYANCE CHANNELS MUST USE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES WITHIN AND ALONG THE LENGTH OF THE CHANNEL AND AT ANY OUTLETS. TEMPORARY OR PERMANENT DITCHES OR SWALES THAT ARE BEING USED AS A TEMPORARY SEDIMENT CONTAINMENT SYSTEM (WITH PROPERLY DESIGNED ROCK DITCH CHECKS, BIO ROLLS, SILT DIKES ETC.) DO NOT NEED TO BE STABILIZED. THESE AREAS MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM. MULCH, HYDROMULCH, TACKIFIER, OR POLYARCRYLAMIDE BELOW THE WETTED PERIMETER OF A DITCH, SWALE, OR OTHER SURFACE WATER CONVEYANCE ARE NOT ACCEPTABLE STABILIZATION.

DUST CONTROL: THE CONTRACTOR IS REMINDED TO READ AND UNDERSTAND THE FOLLOWING MINNESOTA RULE 7011.0150 AND THE FOLLOWING: NO PERSON MAY CAUSE OR PERMIT THE HANDLING, TRANSPORTING OR STORING OF ANY MATERIAL IN A MANNER WHICH ALLOWS OR MAY ALLOW CONTROLLABLE PARTICULATE MATTER TO BECOME AIRBORNE. EXCEPT AS OTHERWISE PROVIDED, THE CONTRACTOR MAY NOT CAUSE NOR PERMIT THE CONSTRUCTION, REPAIR, DEMOLITION, OR USE OF UNPAVED OR UNTREATED AREAS WITHOUT FIRST PUTTING INTO EFFECT AN ONGOING PROGRAM USING THE BEST PRACTICAL METHODS TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE. DUST FROM THE SITE WILL BE CONTROLLED BY INCREASED STREET SWEEPING AND/OR USING A MOBILE PRESSURE-TYPE DISTRIBUTOR TRUCK TO APPLY POTABLE WATER TO DISTURBED AREAS. THE MOBILE UNIT WILL APPLY WATER AT A RATE NECESSARY TO PREVENT RUNOFF AND PONDING.

DEWATERING, STREAM DIVERSION, AND BASIN DRAINING

IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN AND NARRATIVE TO THE PROJECT ENGINEER WITHIN TEN (10) DAYS PRIOR TO UNDERTAKING THESE ACTIVITIES. A DEWATERING PLAN MUST INCLUDE BMP'S TO PREVENT SEDIMENT TRANSPORT, EROSION, AND ADVERSE IMPACTS TO DOWNSTREAM RECEIVING WATERS. THE DEWATERING PLAN MUST ALSO INCLUDE ANY SPECIFIC CHEMICAL TREATMENTS (FLOC, POLYMERS, ETC.) THAT WILL BE USED. IF AN APPROVED TMDL WASTE LOAD ALLOCATION IS ESTABLISHED FOR CONSTRUCTION ACTIVITIES ON A RECEIVING WATERBODY, THE OPERATOR MUST IMPLEMENT ALL NECESSARY BMP'S TO MEET THE ASSIGNED WLA. THE DEWATERING PLAN AND DNR APPROPRIATIONS PERMIT WILL BECOME PART OF THE SWPPP. WATER THAT IS TURBID OR HAS SEDIMENT MUST BE DISCHARGED TO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN (AND/OR OTHER APPROPRIATE BMPS) ON THE PROJECT SITE WHENEVER POSSIBLE. DISCHARGE FROM THE TEMPORARY OR PERMANENT SEDIMENTATION BASIN MUST BE VISUALLY CHECKED TO ENSURE ADEQUATE TREATMENT IS OBTAINED IN THE BASIN AND THAT NUISANCE CONDITIONS (SEE MINN. R. 7050.0210, SUBP. 2), IMPACTS TO WETLANDS, AND EROSION IN RECEIVING CHANNELS OR ON DOWNSLOPE PROPERTIES WILL NOT RESULT FROM THE DISCHARGE. THE DISCHARGE MUST BE DISPERSED OVER NATURAL ROCK RIPRAP, SAND BAGS, PLASTIC SHEETING, OR OTHER ACCEPTED ENERGY DISSIPATION MEASURES. ADEQUATE SEDIMENTATION CONTROL MEASURES AND ADDITIONAL FILTRATION BMPS ARE REQUIRED FOR DISCHARGE WATER THAT CONTAINS SUSPENDED SOLIDS, OIL, OR GREASE.

FINAL STABILIZATION

FINAL STABILIZATION IS ACHIEVED WHEN NPDES CGP PARTS IV.G.1-5.ARE COMPLETED PRIOR TO SUBMISSION OF THE NOTICE OF TERMINATION TO MPCA. SEE PERMANENT EROSION CONTROL PRACTICES FOR SPECIFIC METHODS AND APPLICATIONS.

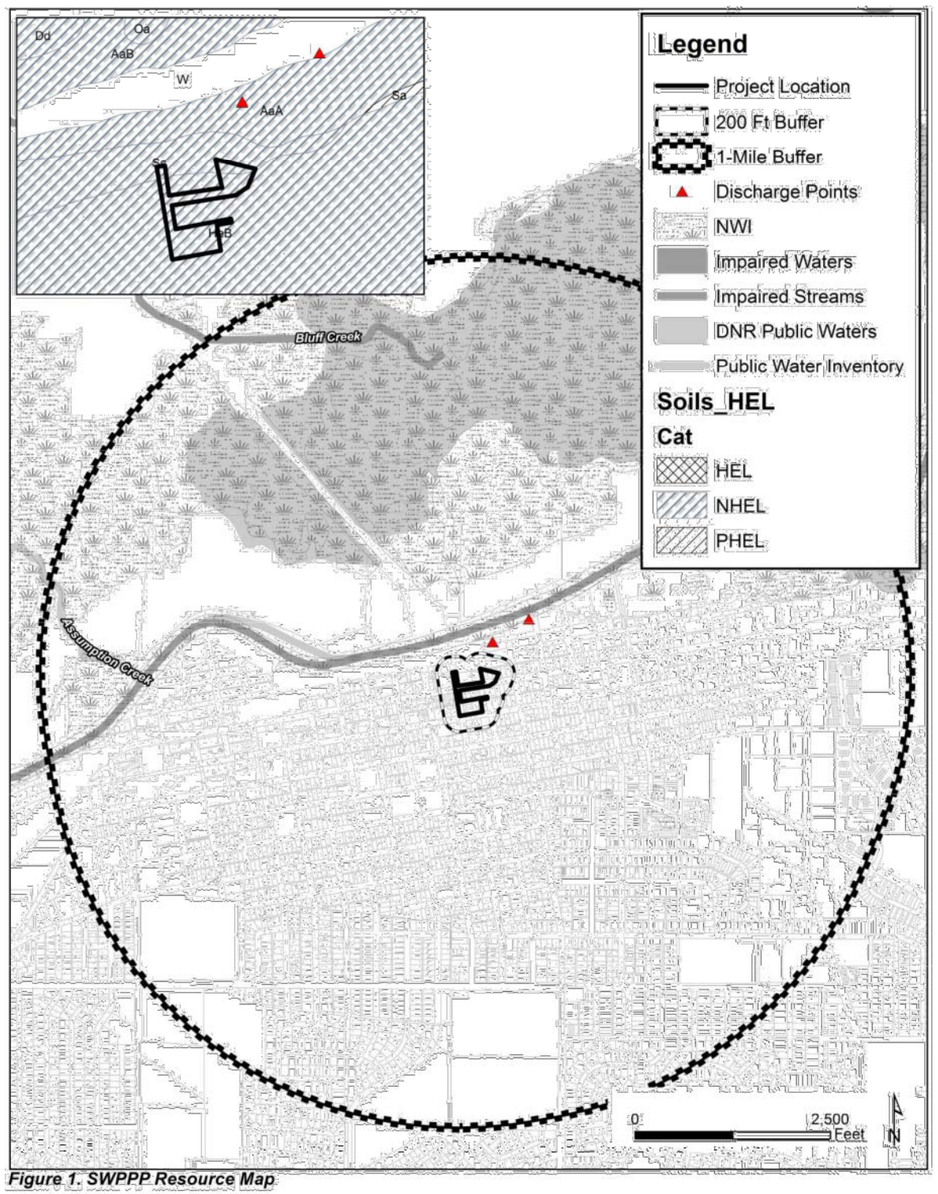


Figure 1. SWPPP Resource Map

REVISION NO. DATE

SCALE: AS NOTED
PLAN BY: DESIGN BY: EL
CHECKED BY: EL PROJECT NO 1755-17
RECORD COPY BY: DATE

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EMILY A. LUETH, P.E.
DATE: MAY XX, 2017 LIC. NO. 51773

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CITY PROJECT NO. SWPPP SHEET L2.6

DESIGN REVIEW SET
NOT FOR CONSTRUCTION

PROPOSED LAYOUT NOTES:

THE LAYOUT INFORMATION PROVIDED ON THIS SHEET IS FOR BIDDING PURPOSES AND VERIFICATION OF CRITICAL LAYOUT DIMENSIONS. THE OWNER/L.A. RESERVES THE RIGHT TO REVISE THE PROJECT LAYOUT TO AVOID UNFORESEEN CONSTRAINTS, SUCH AS MATURE TREES, UNFORESEEN SOIL CONSTRAINTS, ETC. THESE ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. CHANGES IN BID QUANTITIES WILL BE BASED ON A PER UNIT BASIS FOR UNIT BID ITEMS LISTED ON THE BID FORM.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR GENERATION OF LAYOUT POINTS FROM THE ACADRI4 DISK (SUPPLIED BY L.A.-E) AND ALL PROJECT FIELD STAKING DURING THE COURSE OF THE PROJECT AS DEFINED IN THE SPECIFICATIONS UNDER • SPECIAL CONDITIONS.

TO AVOID LAYOUT CONFLICTS OR UNCERTAINTIES, THE CONTRACTOR AND SURVEYOR SHALL MEET WITH THE L.A.-E @ THE START OF THE PROJECT TO REVIEW SITE LAYOUT AND GRADING REQUIREMENTS. THE CONTRACTOR AND/OR SURVEYOR SHALL ALSO INITIATE A MEETING WITH THE L.A.-E AT ANY POINT WHEN QUESTIONS ARISE.

FIELD STAKING AND GRADE STAKES SHALL BE REVIEWED AS NECESSARY WITH THE L.A.-E TO ENSURE THAT THE LAYOUT AND GRADING ARE PROPERLY INTERPRETED.

GENERAL NOTES:

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION START.

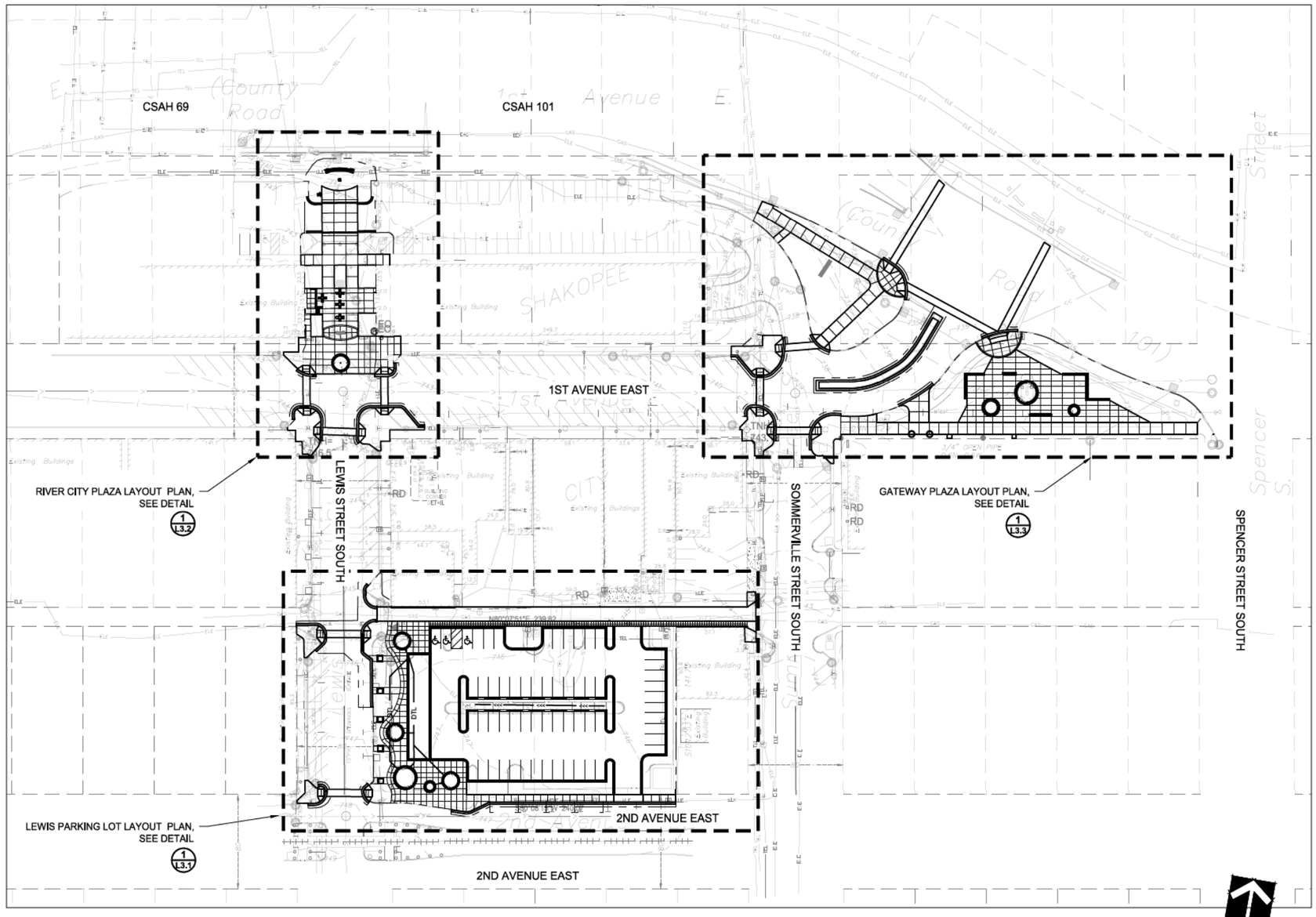
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOCATES. ALL LOCATES SHALL BE REVIEWED BY THE OWNER/LA-E PRIOR TO CONSTRUCTION START.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES, UTILITIES, TREES, SITE AMENITIES, ETC. THAT ARE TO REMAIN FROM DAMAGE DURING CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGE (AT CONTRACTOR'S EXPENSE). TO EXISTING ITEMS TO REMAIN (AT CONTRACTOR'S EXPENSE) AND IS CONSIDERED INCIDENTAL TO THE CONTRACT.

DIMENSIONS TAKE PRECEDENCE OVER SCALE. FIELD VERIFY (FV) ITEMS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

** ANY DISCREPANCIES FOUND THAT AFFECT THE WORK SHALL BE REPORTED TO THE OWNER/L.A.-E. FOR CLARIFICATION PRIOR TO ANY ADDITIONAL WORK BEING COMPLETED.



1 L3.0 **OVERALL LAYOUT PLAN**
SCALE: 1"= 50'

REVISION NO. DATE

SCALE: AS NOTED
PLAN BY: SDF
DESIGN BY: JLA
CHECKED BY: JLA
PROJECT NO: 1756-170
RECORD COPY BY:
DATE

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Jason L. Arlberg
DATE: MAY 08, 2017 LIC. NO. 40003

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CITY PROJECT NO.

OVERALL LAYOUT PLAN

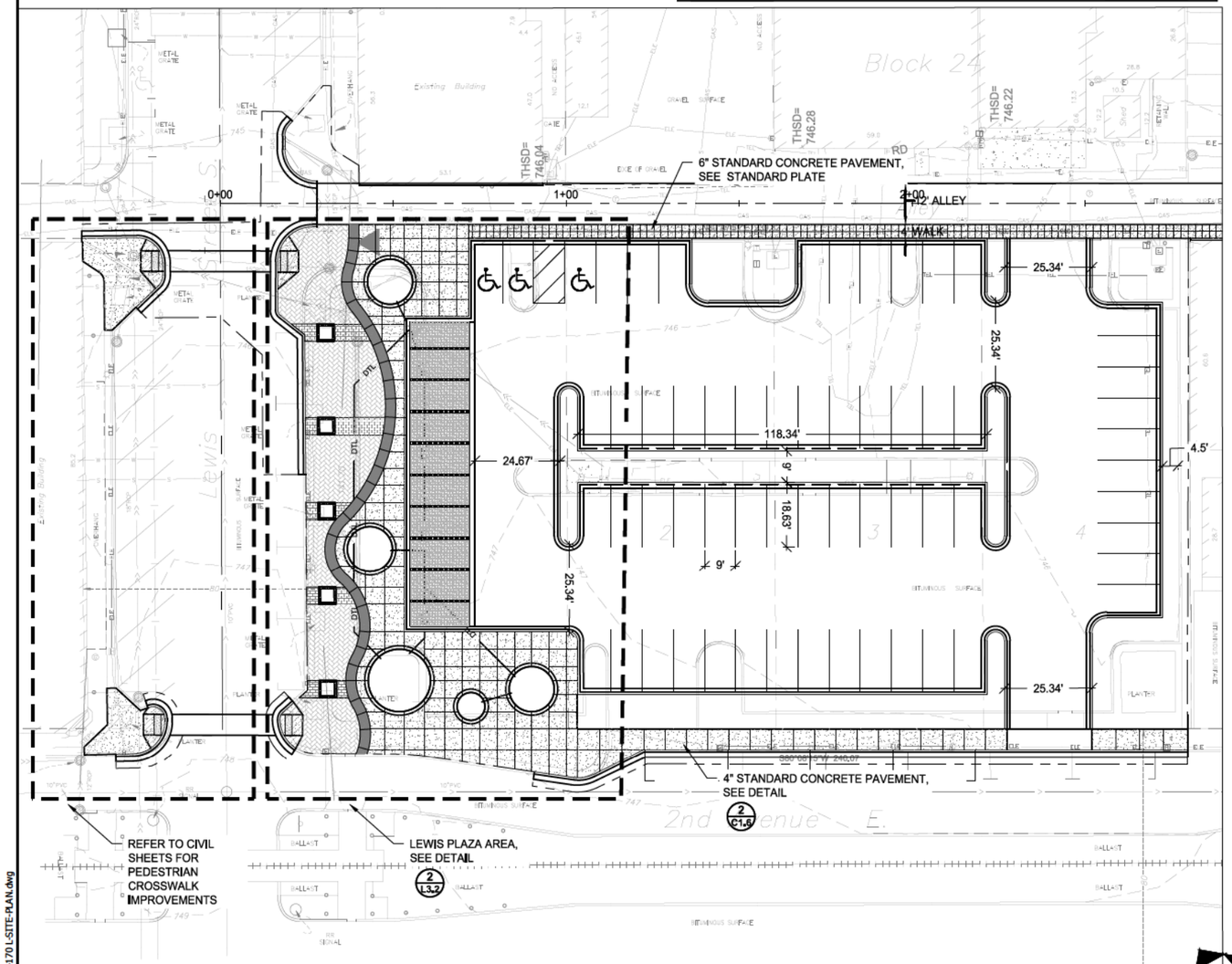
SHEET L3.0

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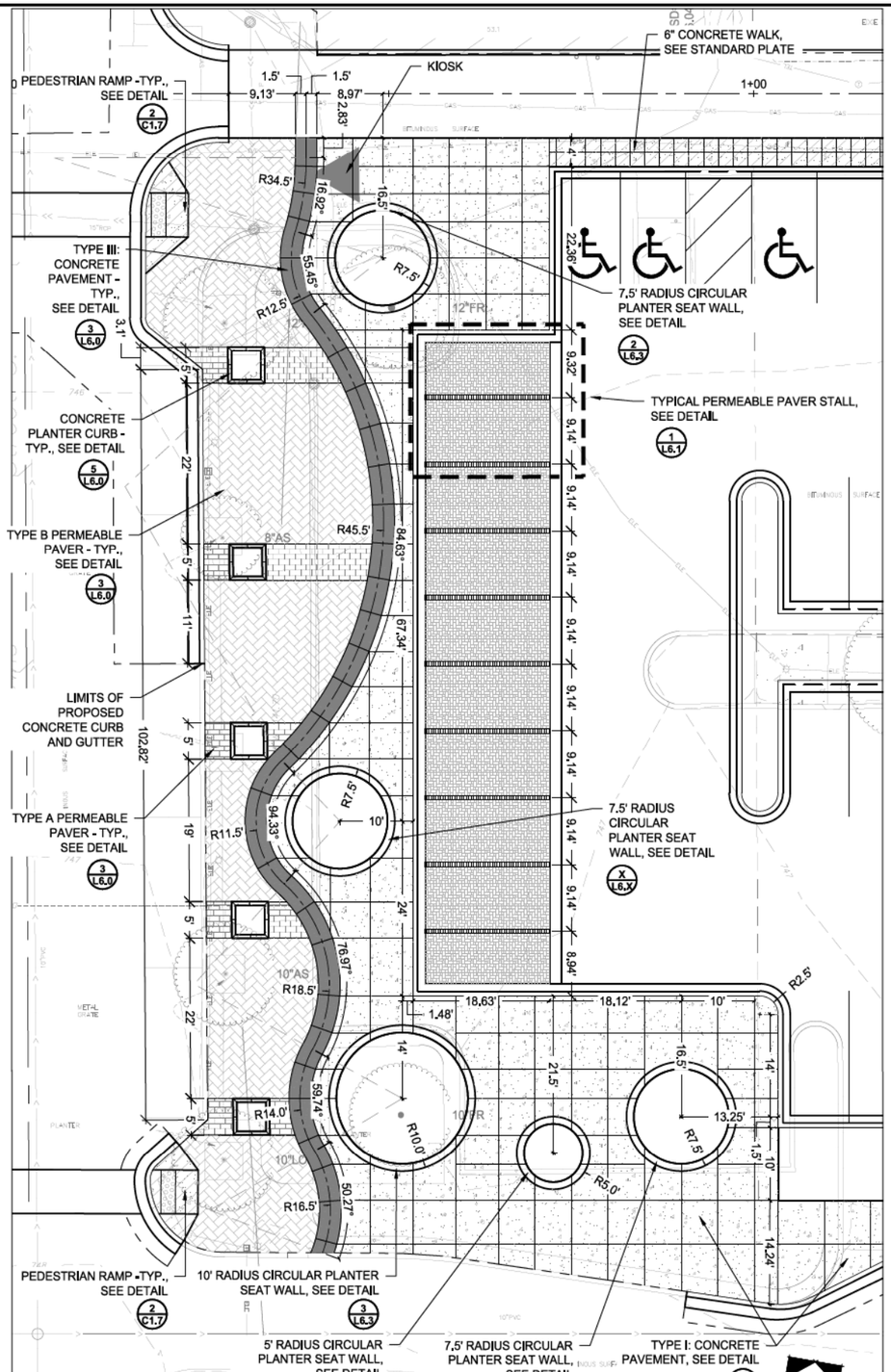
LEGEND:

- LAYOUT CONTROL POINT
- LAYOUT CONTROL LINE
- ARC TANGENT LINE
- CENTERLINE
- TYPE I: CONCRETE PAVEMENT
- TYPE II: CONCRETE PAVEMENT
- TYPE III: CONCRETE PAVEMENT
- TYPE IV: GRANITE PAVEMENT
- 6" CONCRETE WALK
- TRUNCATED DOMES
- TYPE A: PERMEABLE PAVER
- TYPE B: PERMEABLE PAVER
- TYPE C: PERMEABLE PAVER
- TYPE D: PERMEABLE PAVER



1/L3.1 **LEWIS PARKING LOT LAYOUT PLAN**
SCALE: 1"= 20'

Scale: 1" = 20'



2/L3.1 **LEWIS PLAZA AREA PLAN**
SCALE: 1"= 10'

Scale: 1" = 10'

AS NOTED | DESIGN BY: JLA | PLAN BY: SDF | PROJECT NO. 1756-170 | CHECKED BY: JLA | RECORD COPY BY: | DATE

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Jason L. Amberg
DATE MAY 05, 2017 LIC. NO. 40035

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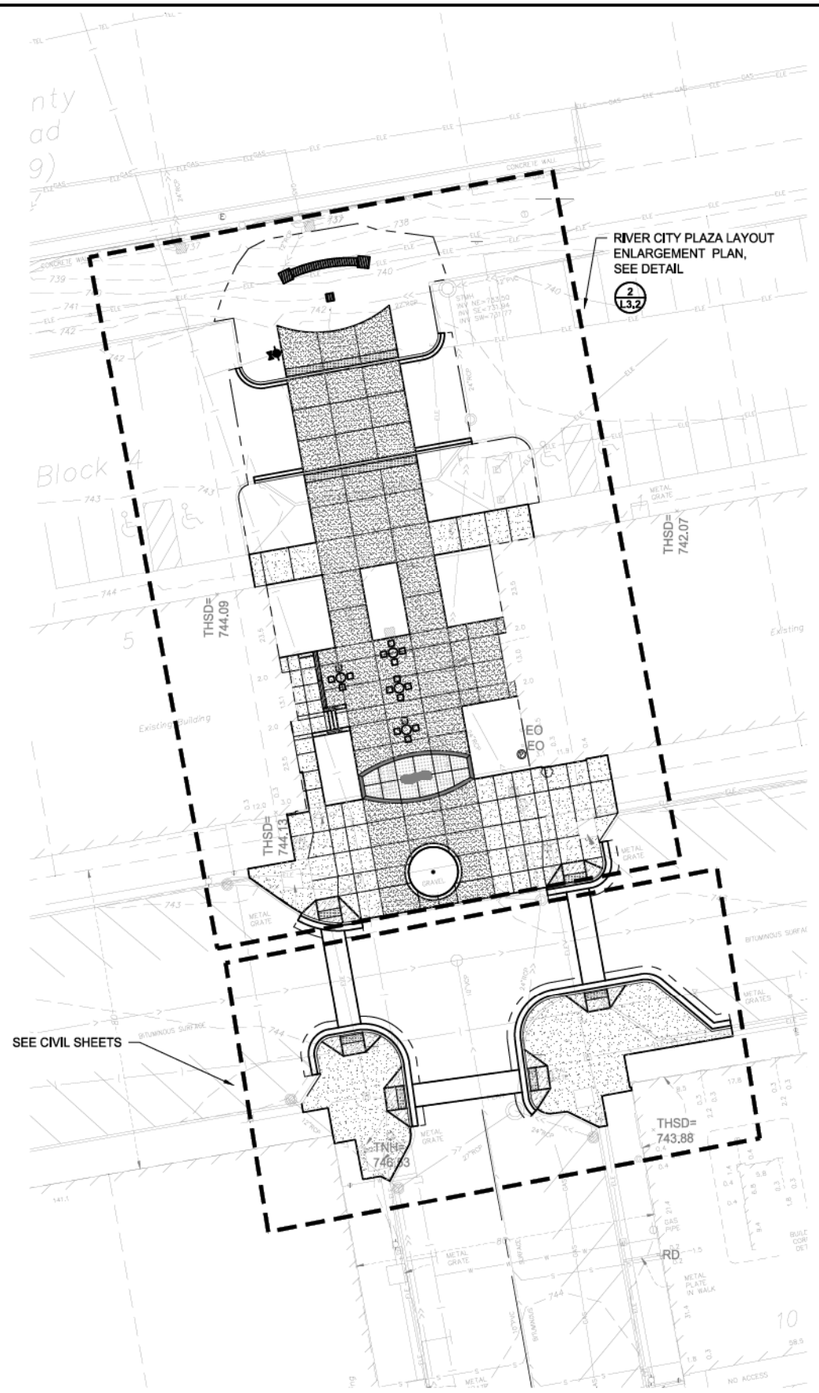
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CITY PROJECT NO. | LEWIS PARKING LOT LAYOUT PLAN | SHEET L3.1

DESIGN REVIEW SET
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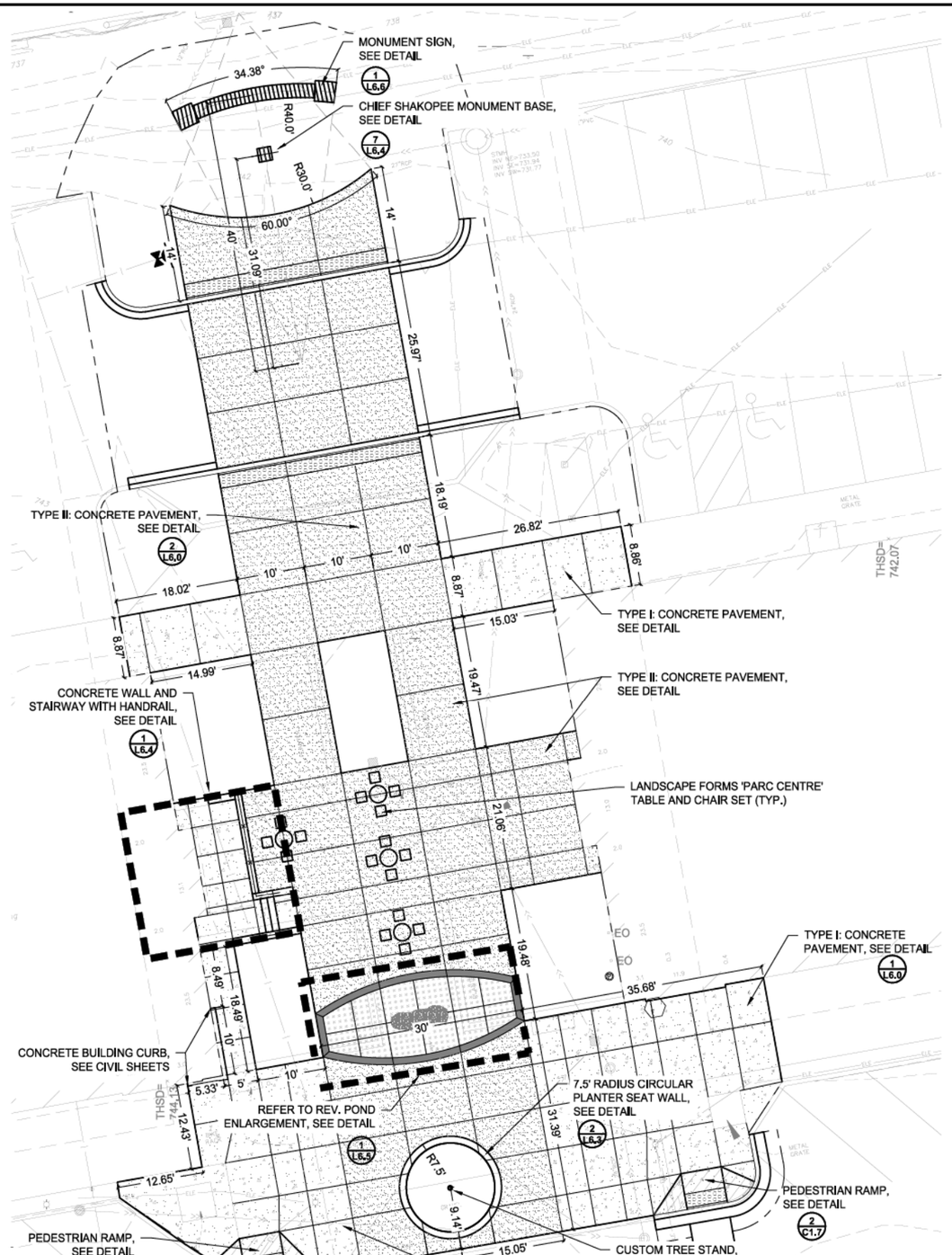
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- TYPE C: PERMEABLE PAVER
- TYPE D: PERMEABLE PAVER



1 L3.2 **RIVER CITY PLAZA LAYOUT PLAN**
SCALE: 1"= 20'

Scale: 1" = 20'



2 L3.2 **RIVER CITY PLAZA LAYOUT ENLARGEMENT PLAN**
SCALE: 1"= 10'

Scale: 1" = 10'

REVISION NO. / DATE

SCALE: AS NOTED
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CHECKED BY: JLA
DESIGN BY: JLA
PROJECT NO: 1755-170
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Jason L. Amberg
DATE: MAY 05, 2017 LIC. NO. 40003

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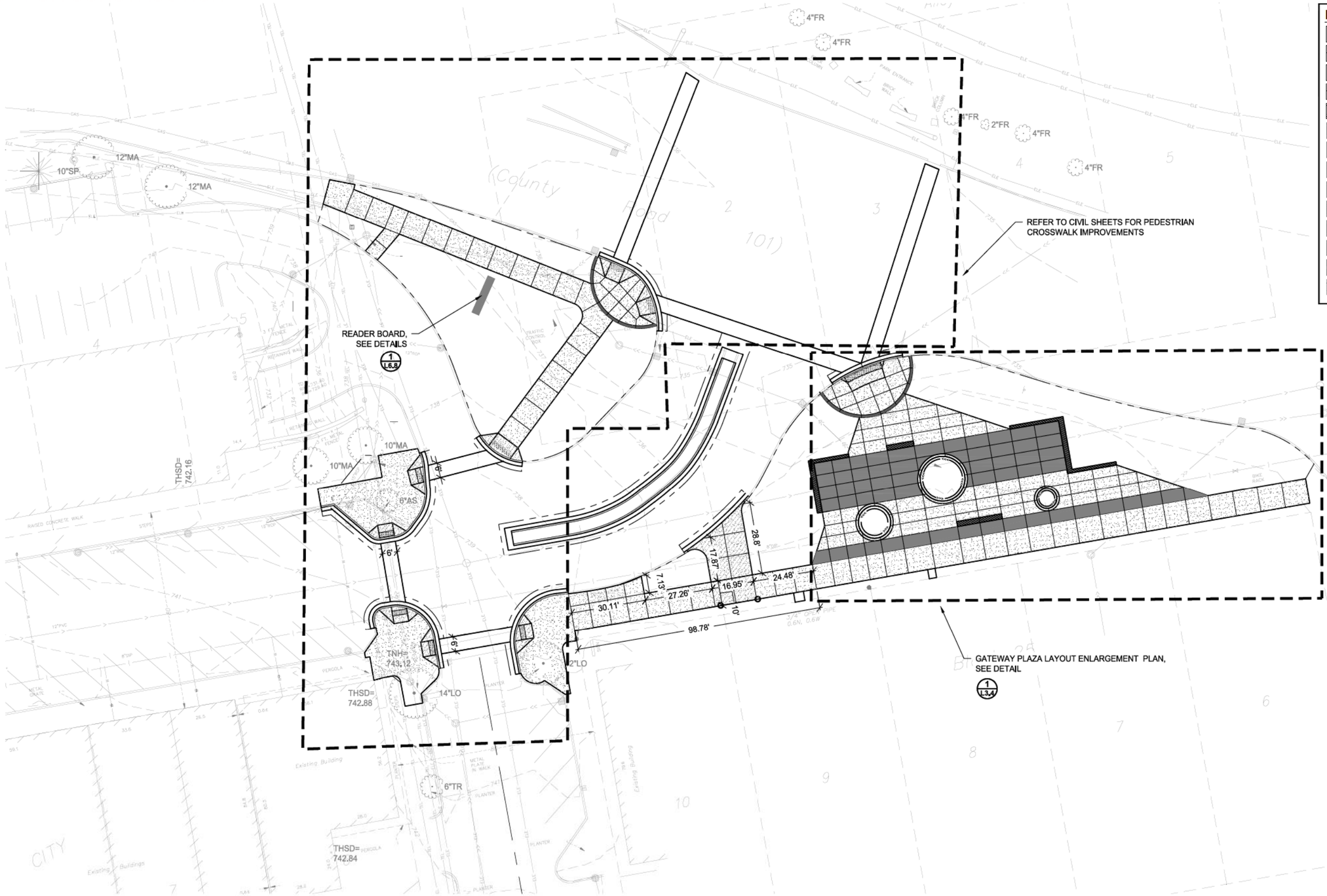
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CITY PROJECT NO. | RIVER CITY PLAZA LAYOUT PLAN | SHEET L3.2

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1 L3.3 **GATEWAY PLAZA LAYOUT PLAN**
SCALE: 1"= 20'

Scale: 1" = 20'

REVISION NO.
DATE

SCALE: AS NOTED
PLAN BY: SDF
DESIGN BY: JLA
CHECKED BY: JLA
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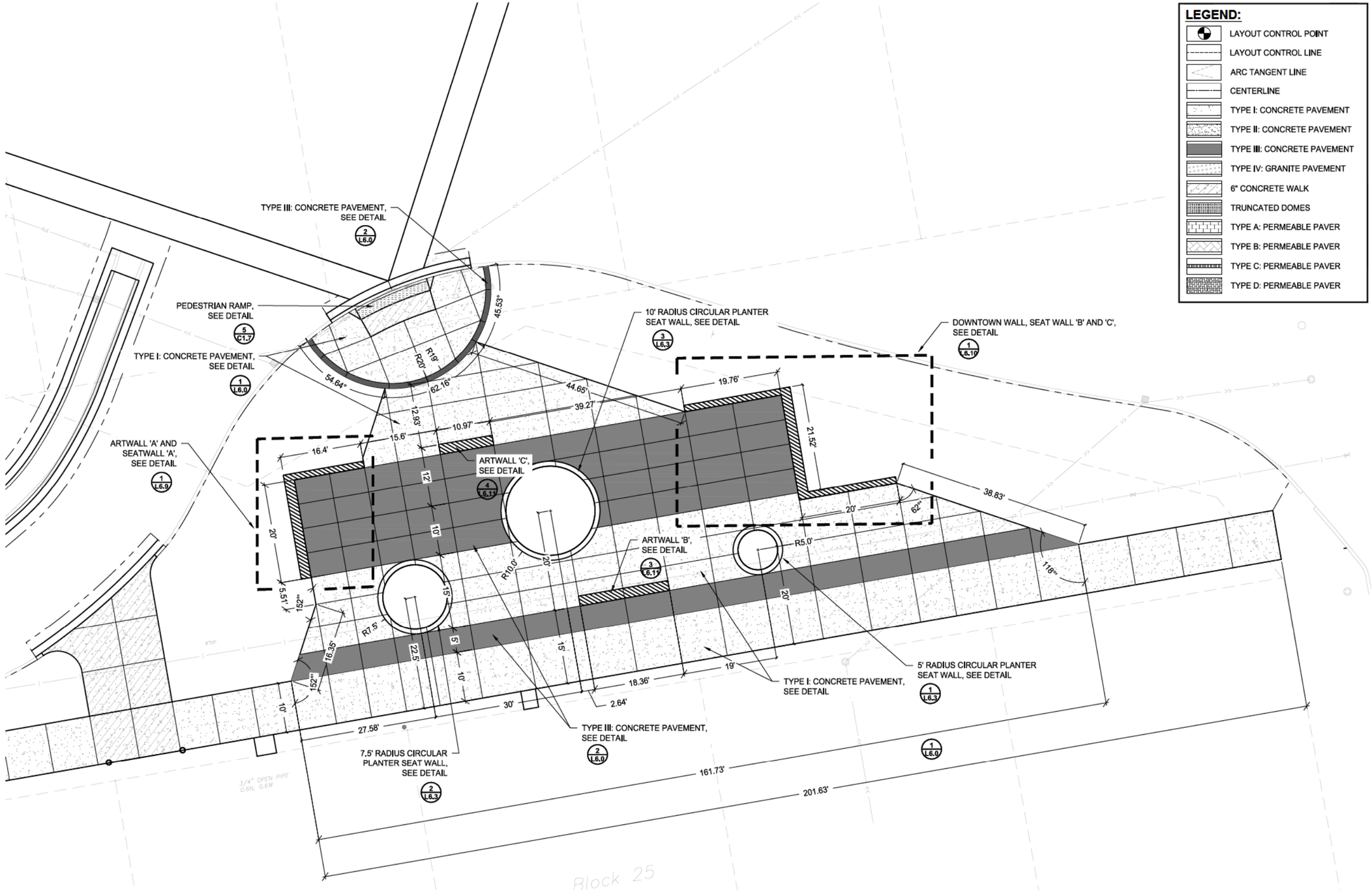
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LEGEND:

- LAYOUT CONTROL POINT
- LAYOUT CONTROL LINE
- ARC TANGENT LINE
- CENTERLINE
- TYPE I: CONCRETE PAVEMENT
- TYPE II: CONCRETE PAVEMENT
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- TYPE C: PERMEABLE PAVER
- TYPE D: PERMEABLE PAVER

1 L3.4 **GATEWAY PLAZA LAYOUT ENLARGEMENT PLAN**
1"= 10'

Scale: 1" = 10'

REVISION NO. / DATE

SCALE: AS NOTED
PLAN BY: SDF
DESIGN BY: JLA
CHECKED BY: JLA
PROJECT NO: 1756-170
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Jason L. Arneng
DATE: MAY 05, 2017 LIC. NO. 40003

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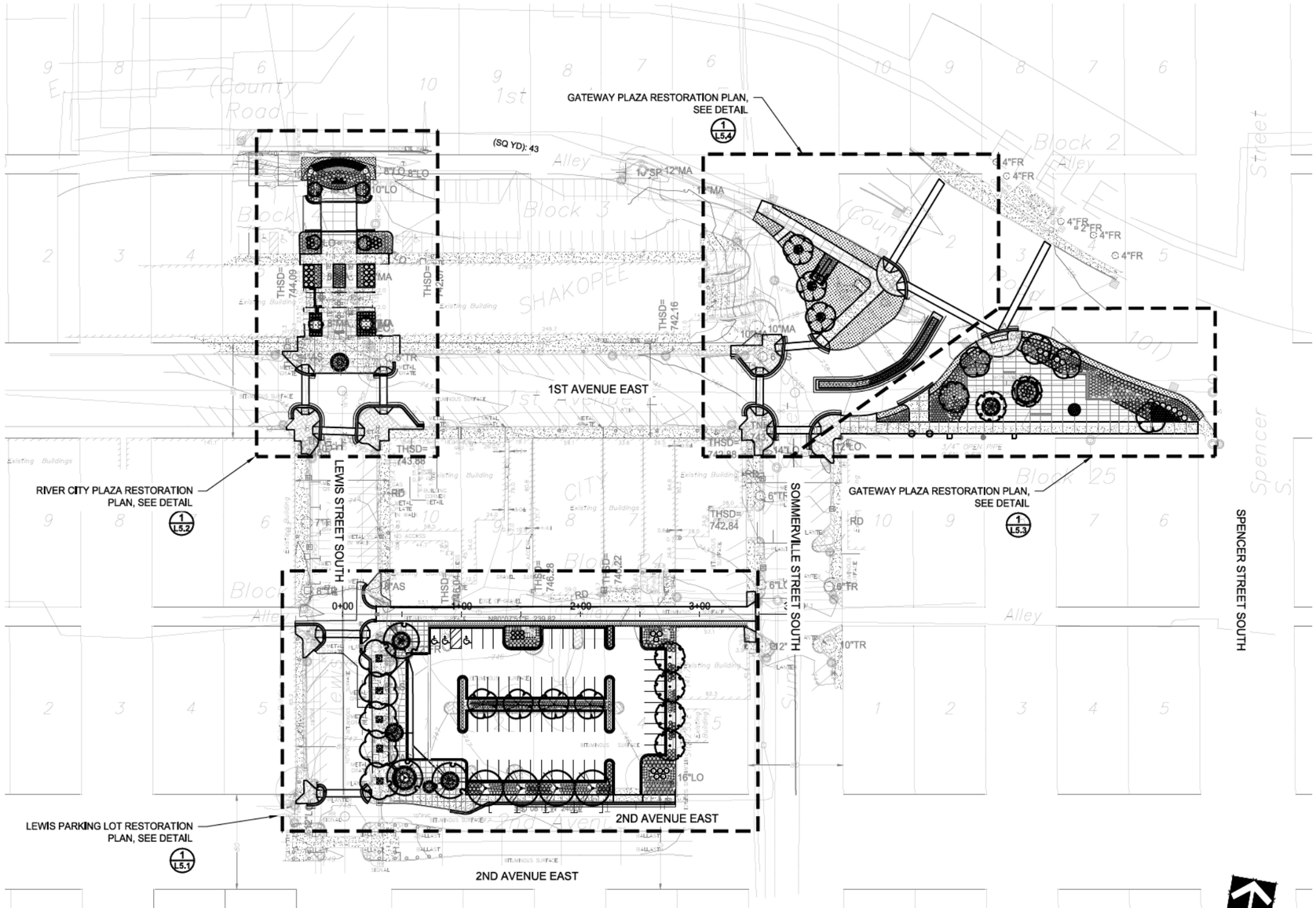
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CITY PROJECT NO. | GATEWAY PLAZA LAYOUT ENLARGEMENT PLAN | SHEET L3.4

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1 L5.0 **OVERALL RESTORATION PLAN**
1"= 50'

SCALE: AS NOTED
PLANS BY: SDF
DESIGN BY: JLA
CHECKED BY: JLA
PROJECT NO. 1756-170
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DATE

REVISION NO. DATE

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Jason L. Amberg
DATE MAY 05, 2017 LIC. NO. 40035

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SHEET L5.0

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LEWIS PARKING LOT

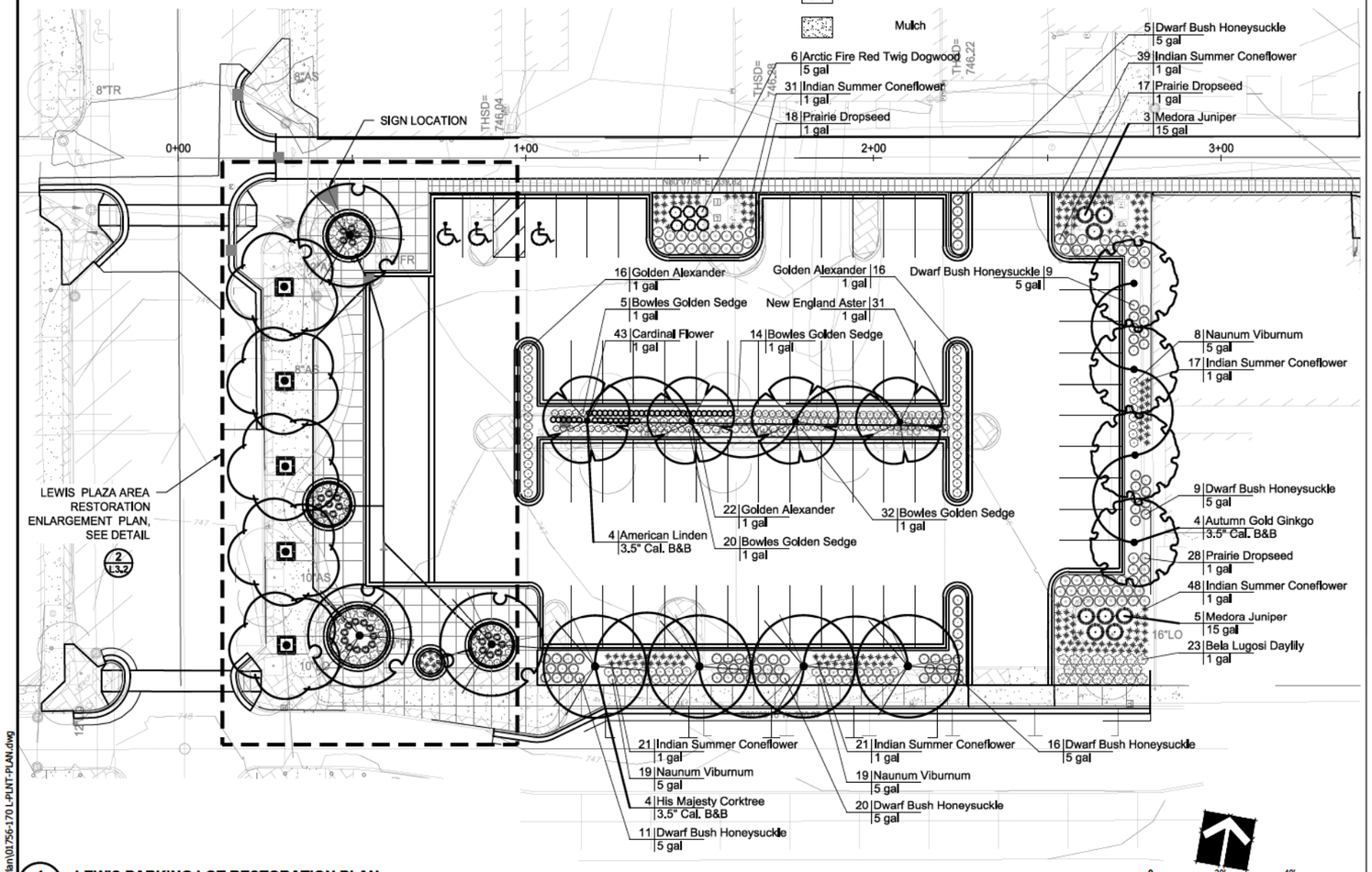
TREES	BOTANICAL NAME / COMMON NAME	CONT	QTY
	Ginkgo biloba `Autumn Gold` TM / Autumn Gold Ginkgo	3.5" Cal. B&B	4
	Juniperus scopulorum `Medora` / Medora Juniper	15 gal	8
	Phellodendron amurense `His Majesty` / His Majesty Corktree	3.5" Cal. B&B	4
	Tilia americana / American Linden	3.5" Cal. B&B	4
	Ulmus americana `Princeton` / Princeton American Elm	3.5" Cal. B&B	5
	Ulmus americana `Valley Forge` / Valley Forge American Elm	3.5" Cal. B&B	3

SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE	QTY
	Cornus sericea `Farrow` / Arctic Fire Red Twig Dogwood	5 gal	6
	Diervilla lonicera / Dwarf Bush Honeysuckle	5 gal	70
	Viburnum opulus `Nanum` / Naunum Viburnum	5 gal	46

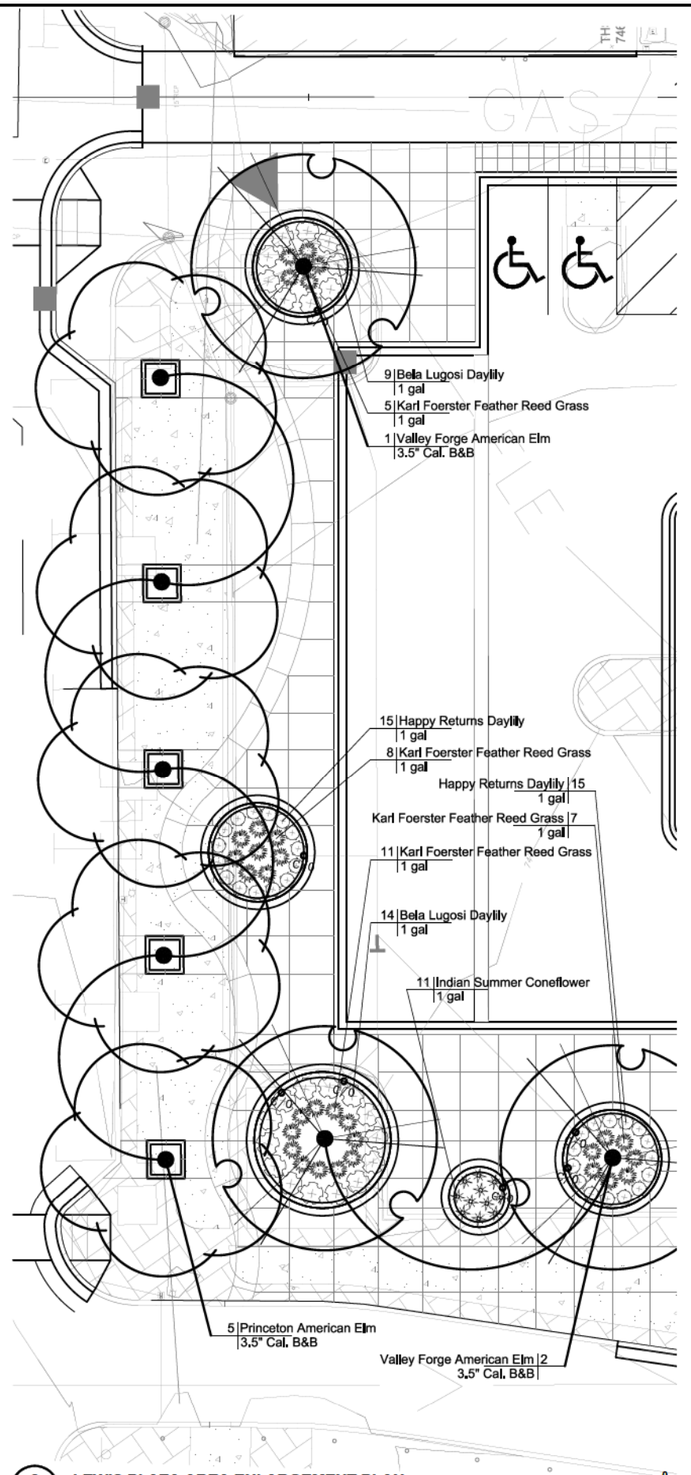
GRASSES	BOTANICAL NAME / COMMON NAME
	Calamagrostis x acutiflora `Karl Foerster` / Karl Foerster Feather Reed Grass
	Sporobolus heterolepis / Prairie Dropseed

PERENNIALS	BOTANICAL NAME / COMMON NAME
	Hemerocallis x `Bela Lugosi` / Bela Lugosi Daylily
	Hemerocallis x `Happy Returns` / Happy Returns Daylily
	Rudbeckia hirta `Indian Summer` / Indian Summer Coneflower

RAIN GARDEN PERENNIALS	BOTANICAL NAME / COMMON NAME
	Aster novae-angliae / New England Aster
	Carex elata `Aurea` / Bowles Golden Sedge
	Lobelia cardinalis / Cardinal Flower
	Zizia aurea / Golden Alexander
	Turf
	Mulch



1 L5.1 **LEWIS PARKING LOT RESTORATION PLAN**
1"= 20'



2 L5.1 **LEWIS PLAZA AREA ENLARGEMENT PLAN**
1"= 10'

REVISION NO. / DATE

SCALE: AS NOTED
PLAN BY: SDF
DESIGN BY: JLA
CHECKED BY: JLA
PROJECT NO. 1756-170
RECORD COPY BY: DATE

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Jason L. Arsbeng
DATE MAY 05, 2017 LIC. NO. 40003

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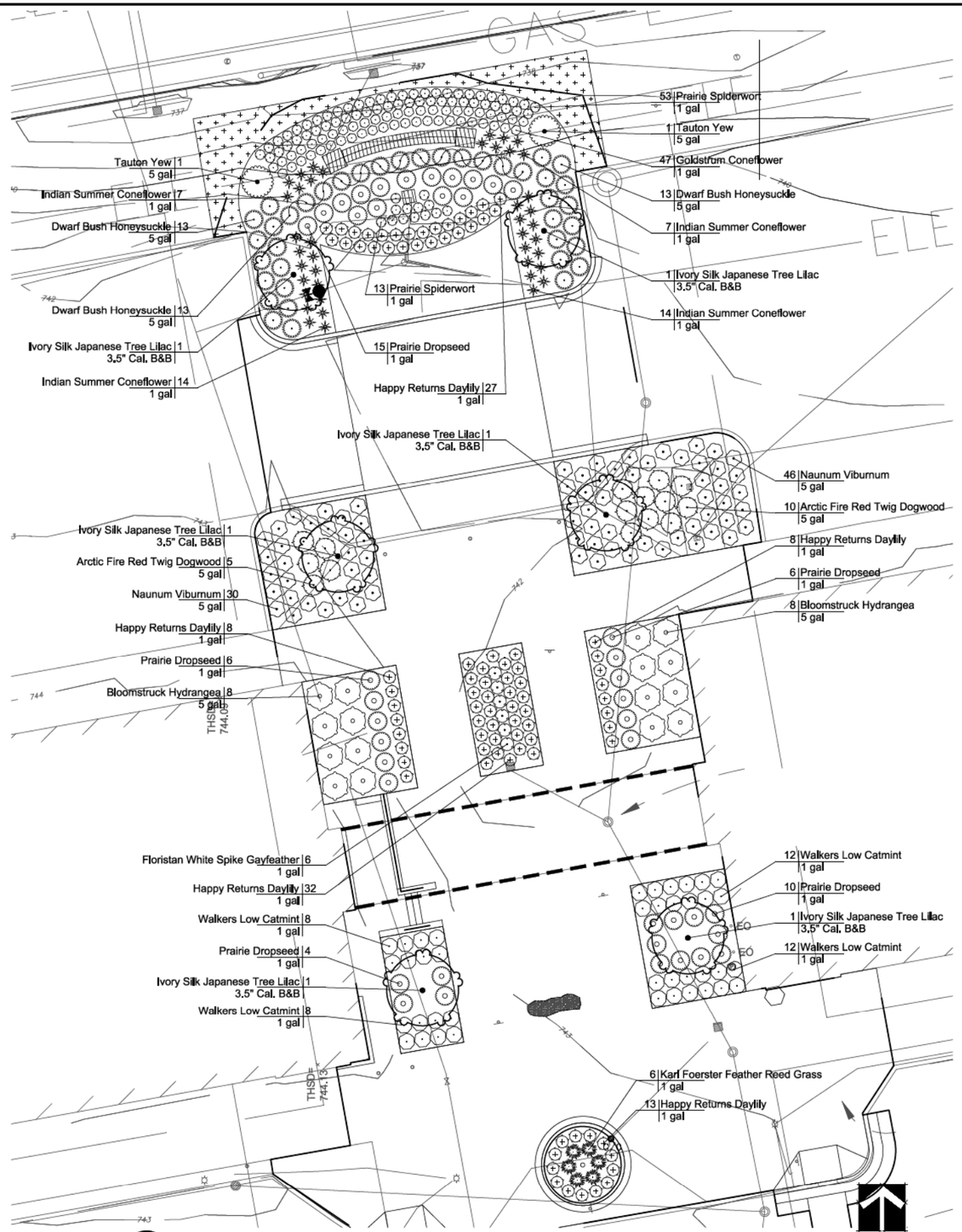
CITY PROJECT NO. | LEWIS PARKING LOT AND PLAZA RESTORATION PLAN | SHEET L5.1

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DESIGN REVIEW SET
NOT FOR CONSTRUCTION

RIVER CITY PLAZA

TREES	BOTANICAL NAME / COMMON NAME	CONT	QTY
	Syringa reticulata `Ivory Silk` / Ivory Silk Japanese Tree Lilac	3.5" Cal. B&B	6
SHRUBS	**BOTANICAL NAME / COMMON NAME**	**SIZE**	**QTY**
	Cornus sericea `Farrow` / Arctic Fire Red Twig Dogwood	5 gal	15
	Diervilla lonicera / Dwarf Bush Honeysuckle	5 gal	39
	Hydrangea macrophylla `Bloomstruck` / Bloomstruck Hydrangea	5 gal	16
	Taxus x media `Tauntonii` / Tauton Yew	5 gal	2
	Viburnum opulus `Nanum` / Naunum Viburnum	5 gal	76
GRASSES	**BOTANICAL NAME / COMMON NAME**	**SIZE**	**QTY**
	Calamagrostis x acutiflora `Karl Foerster` / Karl Foerster Feather Reed Grass	1 gal	6
	Sporobolus heterolepis / Prairie Dropseed	1 gal	41
PERENNIALS	**BOTANICAL NAME / COMMON NAME**	**SIZE**	**QTY**
	Hemerocallis x `Happy Returns` / Happy Returns Daylily	1 gal	88
	Liatris spicata `Floristan White` / Floristan White Spike Gayfeather	1 gal	6
	Nepeta x faassenii `Walkers Low` / Walkers Low Catmint	1 gal	40
	Rudbeckia fulgida `Goldstrum` / Goldstrum Coneflower	1 gal	47
	Rudbeckia hirta `Indian Summer` / Indian Summer Coneflower	1 gal	42
	Tradescantia occidentalis / Prairie Spiderwort	1 gal	66
	Turf		
	Mulch		



2 L5.2 **RIVER CITY PLAZA RESTORATION PLAN**
1"= 10'

REVISION NO. / DATE

SCALE: AS NOTED
PLAN BY: SDF
DESIGN BY: JLA
CHECKED BY: JLA
PROJECT NO: 17755-170
RECORD COPY BY: DATE

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Jason L. Arlberg
DATE: MAY 05, 2017 LIC. NO. 40003

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CITY PROJECT NO. | RIVER CITY PLAZA PLAN | SHEET L5.2

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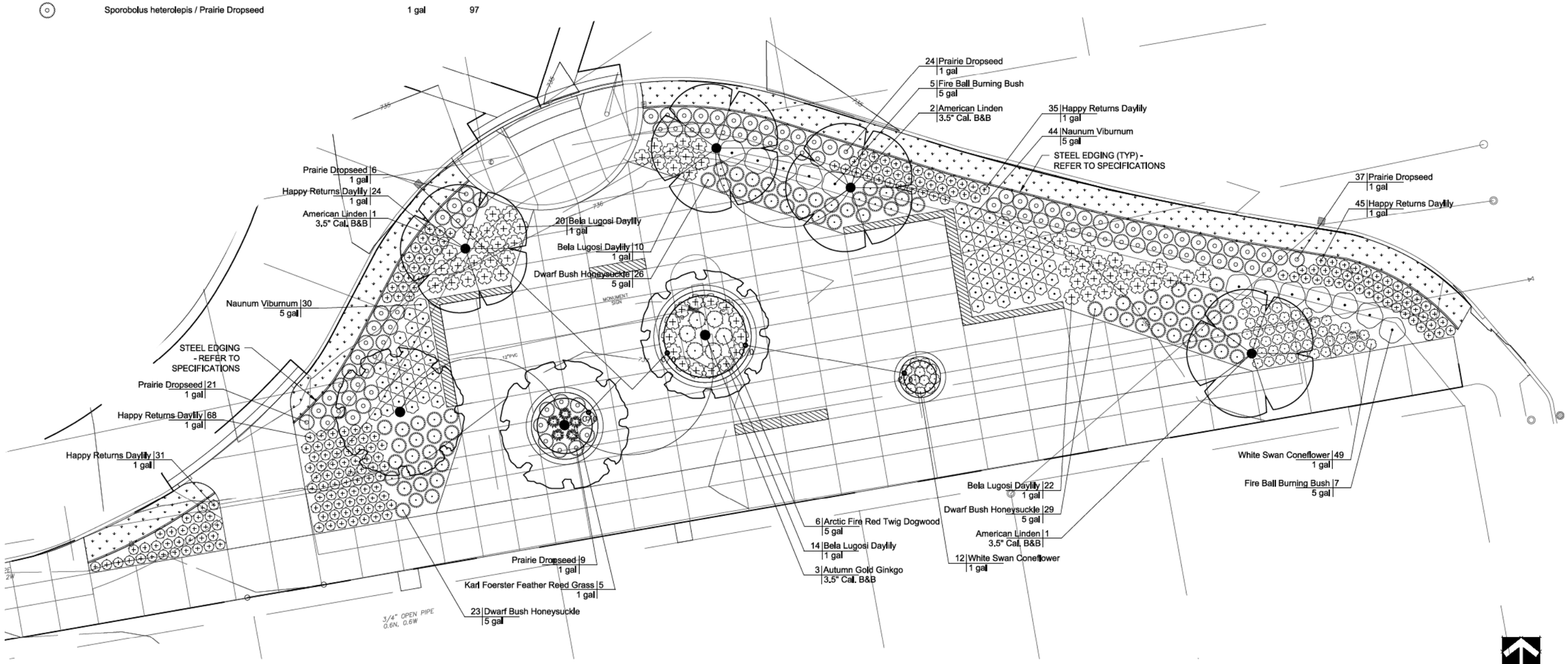
GATEWAY PLAZA PLANTS

TREES	BOTANICAL NAME / COMMON NAME	CONT	QTY
	Ginkgo biloba `Autumn Gold` TM / Autumn Gold Ginkgo	3.5" Cal. B&B	3
	Tilia americana / American Linden	3.5" Cal. B&B	4

SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE	QTY
	Cornus sericea `Farrow` / Arctic Fire Red Twig Dogwood	5 gal	6
	Diervilla lonicera / Dwarf Bush Honeysuckle	5 gal	78
	Euonymus alatus `Fire Ball` / Fire Ball Burning Bush	5 gal	12
	Viburnum opulus `Nanum` / Naunum Viburnum	5 gal	74

GRASSES	BOTANICAL NAME / COMMON NAME	SIZE	QTY
	Calamagrostis x acutiflora `Karl Foerster` / Karl Foerster Feather Reed Grass	1 gal	5
	Sporobolus heterolepis / Prairie Dropseed	1 gal	97

PERENNIALS	BOTANICAL NAME / COMMON NAME	SIZE	QTY
	Echinacea purpurea `White Swan` / White Swan Coneflower	1 gal	61
	Hemerocallis x `Bela Lugosi` / Bela Lugosi Daylily	1 gal	66
	Hemerocallis x `Happy Returns` / Happy Returns Daylily	1 gal	203
	Turf		
	Mulch		



1 L5.3 **GATEWAY PLAZA RESTORATION PLAN A**
1"= 20'

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CITY PROJECT NO.

GATEWAY PLAZA PLAN A RESTORATION PLAN

SHEET L5.3

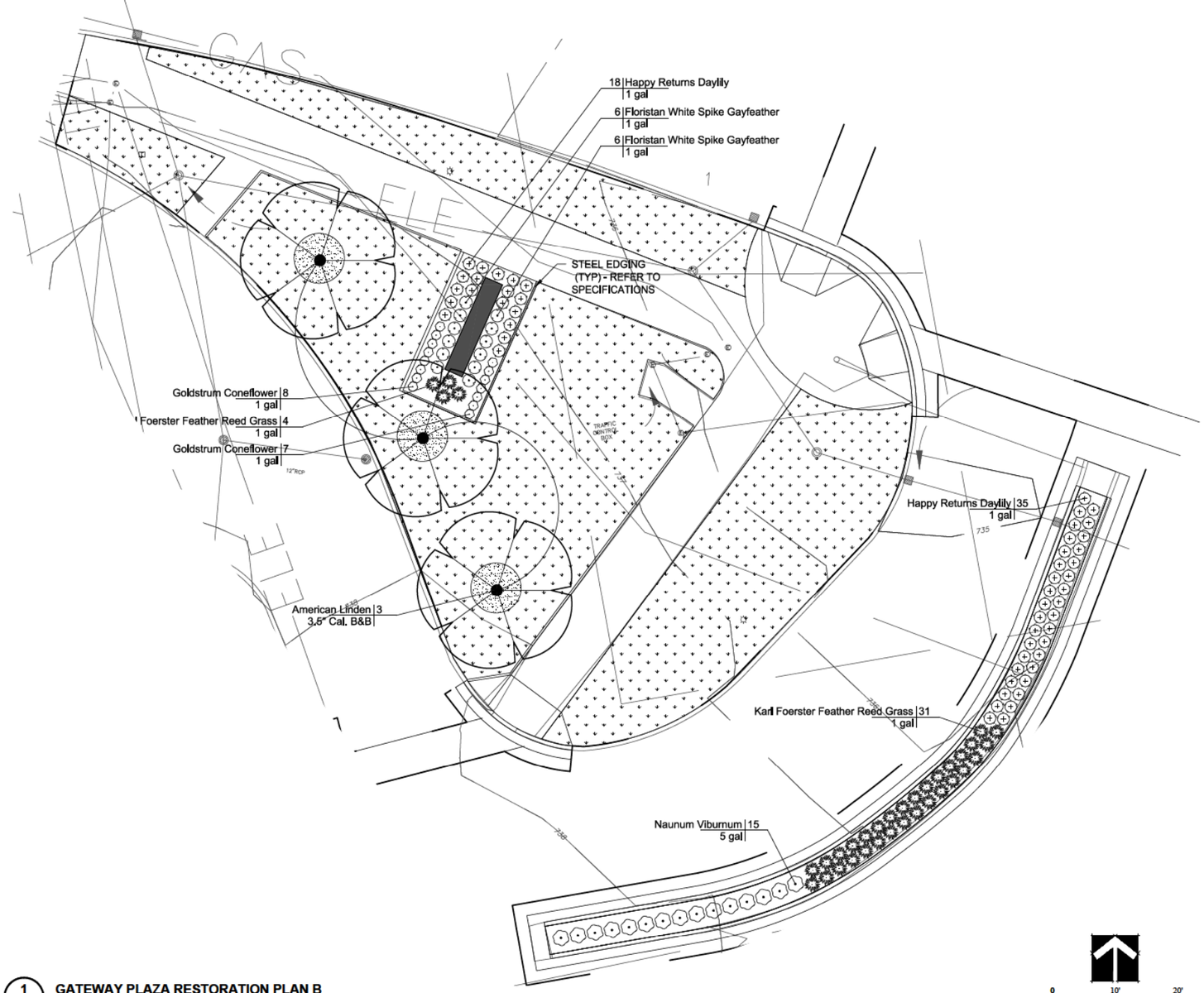
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SATETWAY PLAZA PLAN B

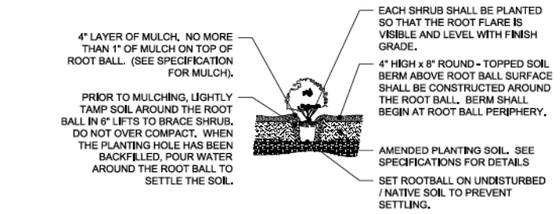
TREES	BOTANICAL NAME / COMMON NAME	CONT	QTY
	Tilia americana / American Linden	3.5" Cal. B&B	3
SHRUBS	**BOTANICAL NAME / COMMON NAME**	**SIZE**	**QTY**
	Viburnum opulus `Nanum` / Naunum Viburnum	5 gal	15
GRASSES	**BOTANICAL NAME / COMMON NAME**	**SIZE**	**QTY**
	Calamagrostis x acutiflora `Karl Foerster` / Karl Foerster Feather Reed Grass	1 gal	35

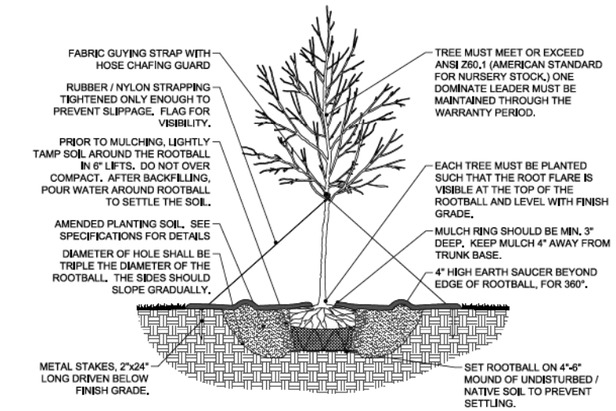
PERENNIALS	BOTANICAL NAME / COMMON NAME	SIZE	QTY
	Hemerocallis x `Happy Returns` / Happy Returns Daylily	1 gal	53
	Liatris spicata `Floristan White` / Floristan White Spike Gayfeather	1 gal	12
	Rudbeckia fulgida `Goldstrum` / Goldstrum Coneflower	1 gal	15
	Turf		
	Mulch		

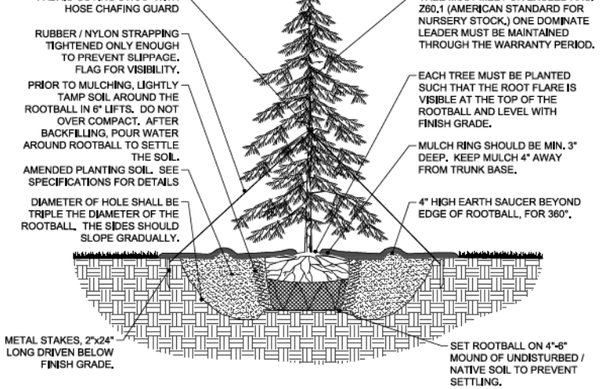


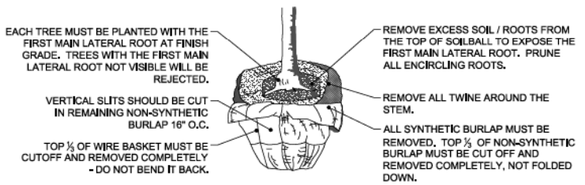
1 L5.4 **GATEWAY PLAZA RESTORATION PLAN B**
1"= 10'

Scale: 1" = 10'









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Jason L. Arneberg
DATE MAY 05, 2017
LIC. NO. 40003

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CITY PROJECT NO.

GATEWAY PLAZA PLAN B RESTORATION PLAN

SHEET L5.4

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TREES


GB - AUTUMN GOLD GINGKO


MEDORA JUNIPER


PH - HIS MAJESTY CORKTREE


SI - IVORY SILK JAP. TREE LILAC


TL - AMERICAN LINDEN


PRINCETON AMERICAN ELM


VALLEY FORGE AMERICAN ELM

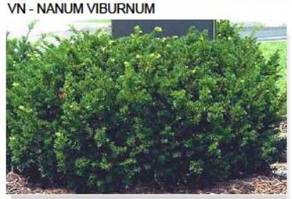
SHRUBS


CF - ARCTIC FIRE RED TWIG DOGWOOD


DL - DWARF BUSH HONEYSUCKLE


HB2 - BLOOMSTRUCK HYDRANGEA


VN - NANUM VIBURNUM


TT - TAUTON YEW

GRASSES


CK - KARL FOERSTER FEATHER REED GRASS


SH - PRAIRIE DROPSEED

PERENNIALS


EW - WHITE SWAN CONEFLOWER


NW - WALKERS LOW CATMINT


HB - BELA LUGOSI DAYLILY


RF - GOLDSTRUM CONEFLOWER


HH - HAPPY RETURNS DAYLILLY


RS - INDIAN SUMMER CONEFLOWER


LF - FLORISTAN WHITE SPIKE GAYFEATHER


TO - PRAIRIE SPIDERWORT

RAIN GARDEN PERENNIALS


AE - NEW ENGLAND ASTER


CA - BOWLES GOLDEN SEDGE


LC - CARDINAL FLOWER


ZA - GOLDEN ALEXANDER

0 10' 20'
Scale: 1" = 10'

REVISION NO.
DATE

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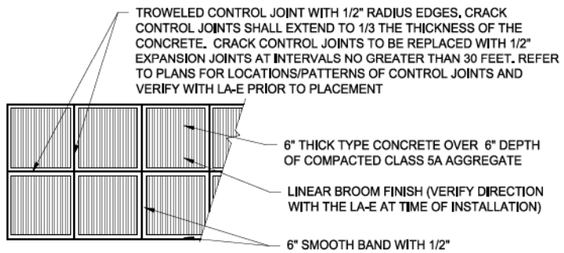
CITY PROJECT NO.

PLANT PALETTE

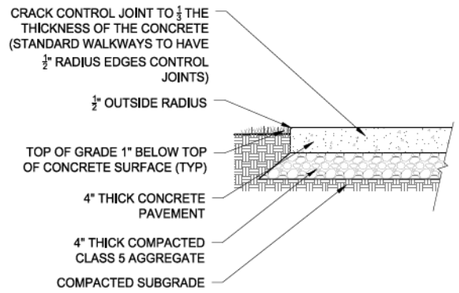
SHEET L5.4

DESIGN REVIEW SET
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BANDED FINISH
LINEAR LIGHT BROOM FINISH WITH 6" SMOOTH BANDS AND TROWELED CONTROL JOINTS (TYP.) - REFER TO PLANS AND DETAILS FOR LOCATIONS

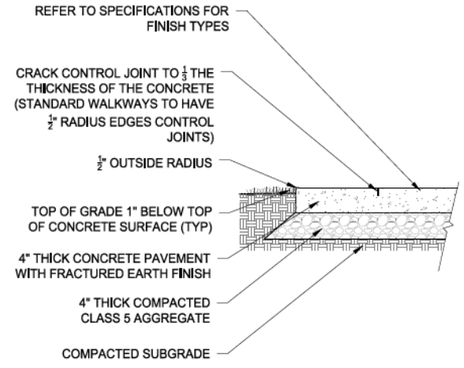


PLAN VIEW

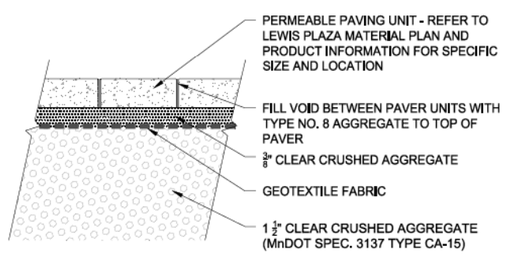


SECTION VIEW
TYPE 1: CONCRETE PAVEMENT

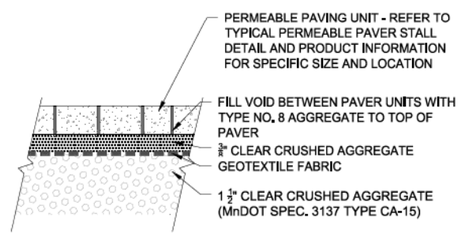
1 L6.0 TYPE I: CONCRETE PAVEMENT
SCALE: NTS



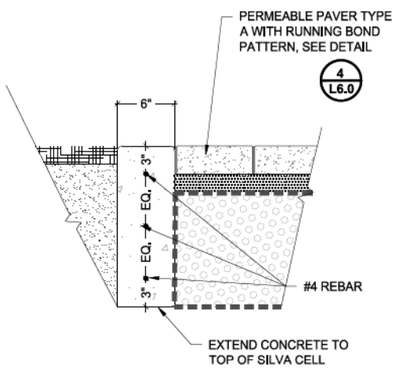
2 L6.0 TYPE II, III: CONCRETE PAVEMENT
SCALE: NTS



3 L6.0 TYPE A,B,C: PERMEABLE PAVER
SCALE: NTS



4 L6.0 TYPE D: PERMEABLE PAVER
SCALE: NTS



5 L6.0 CONCRETE PLANTER CURB
SCALE: NTS

REVISION NO. DATE

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PROJECT NO. 1756-170
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Jason L. Arsbeng
DATE MAY 05, 2017 LIC. NO. 40035

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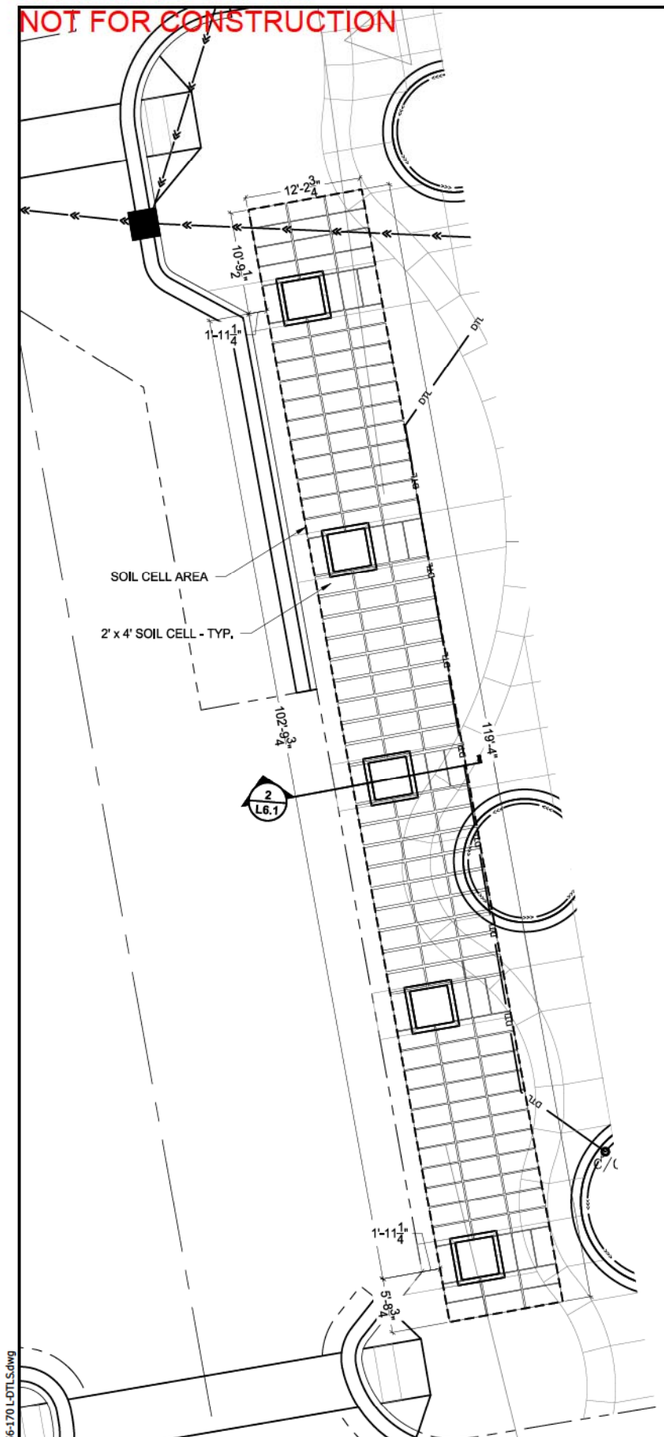
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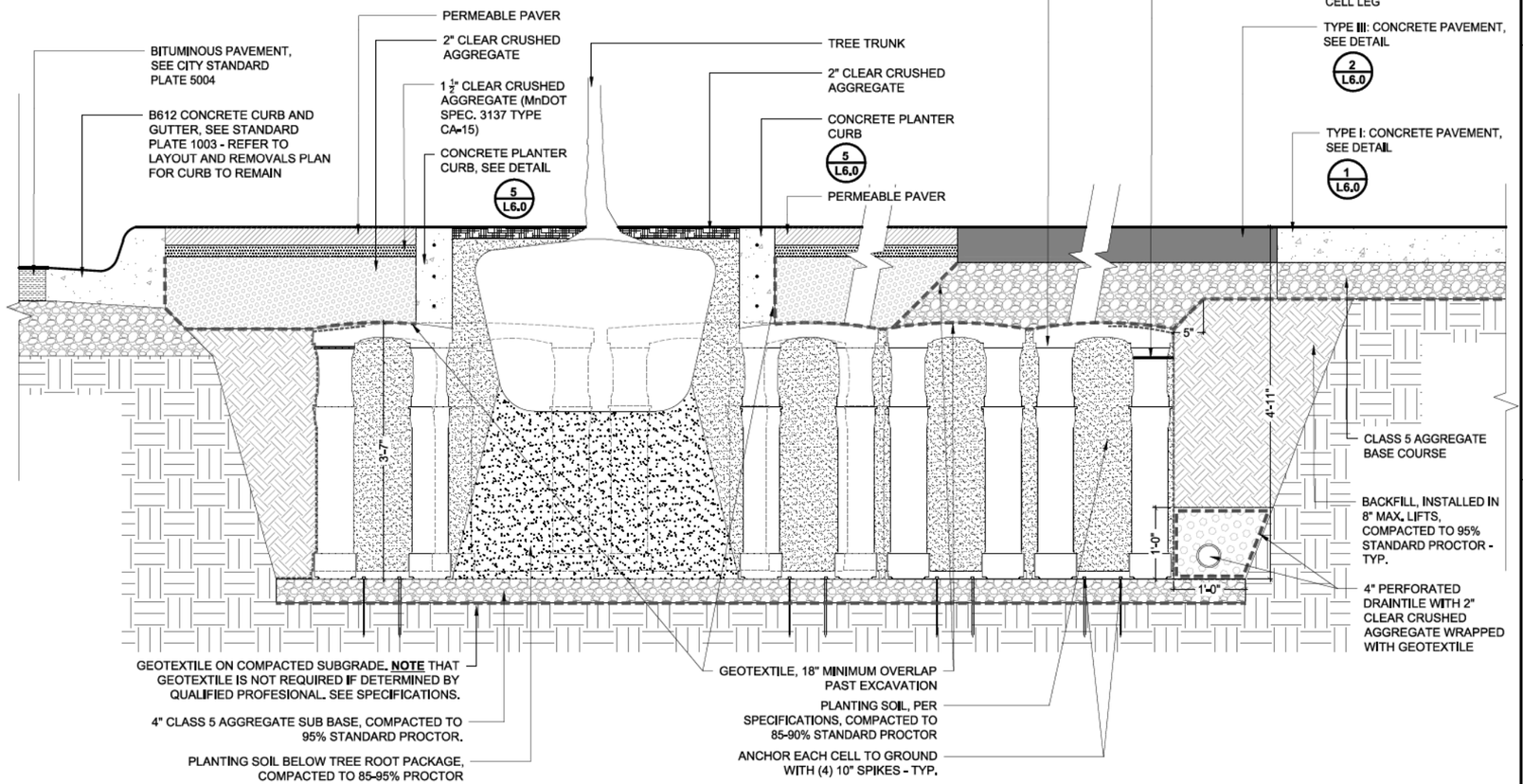
PAVEMENT DETAILS

SHEET L6.0

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1 L6.1 **SILVA CELL LAYOUT PLAN**
SCALE: 1/8" = 1'-0"



2 L6.1 **SILVA CELL - SECTION DETAIL**
SCALE: 1" = 1'-0"

REVISION NO. | DATE

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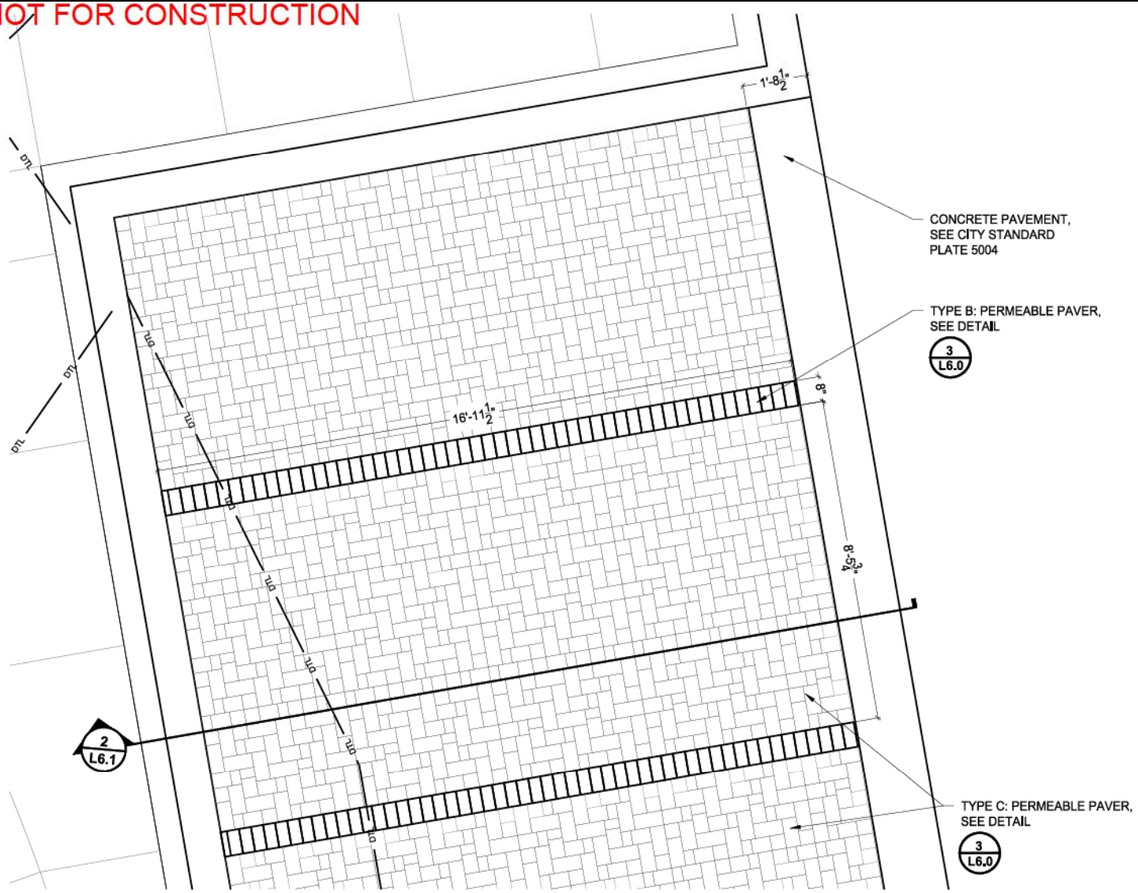
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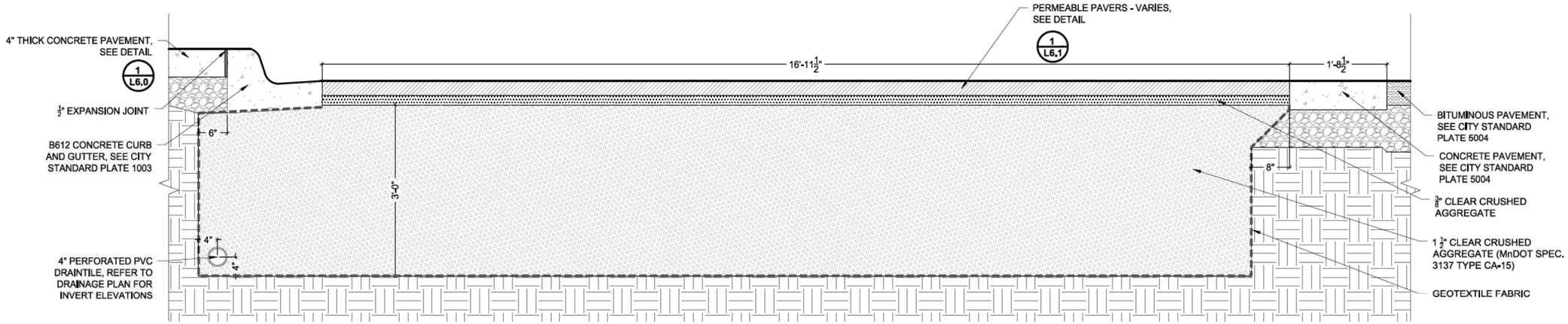
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CITY PROJECT NO. | SILVA CELL DETAILS | SHEET L6.1

DESIGN REVIEW SET
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1 L6.1 **TYPICAL PERMEABLE PAVER STALL - PLAN DETAIL**
SCALE: 1:10



2 L6.1 **4-1/2" x 9" SCORED PERMEABLE PAVER PATTERN**
SCALE: 1:10

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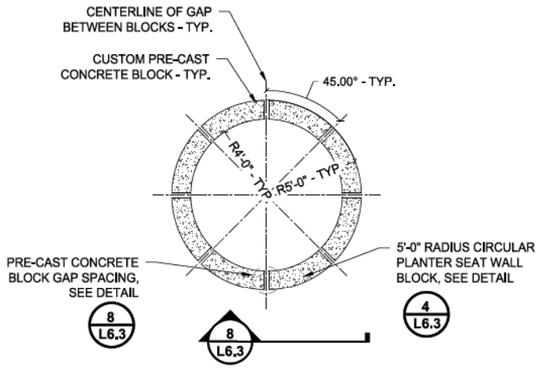
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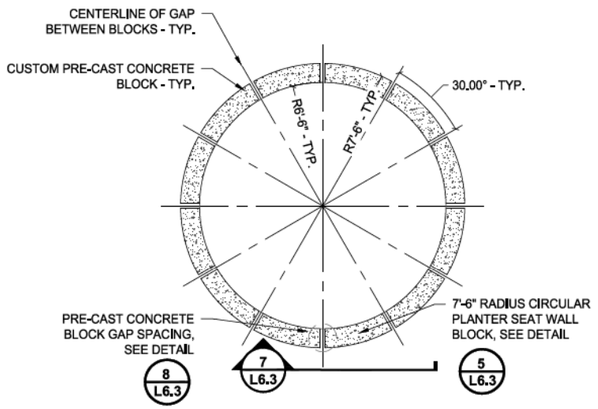
PARKING LOT PAVER DETAILS

SHEET L6.2

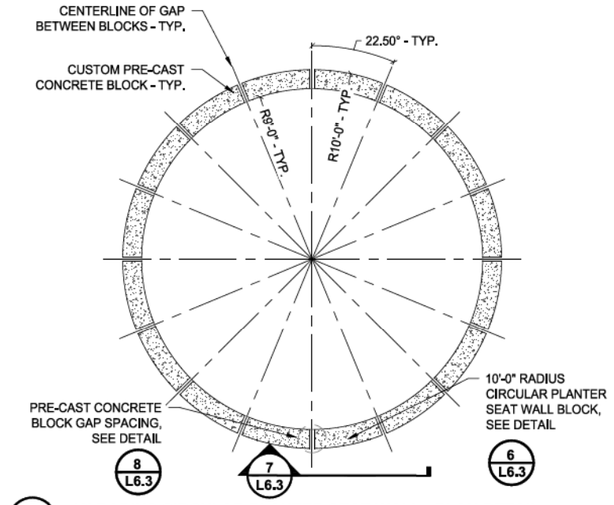
DESIGN REVIEW SET
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1 L6.3 5' RADIUS CIRCULAR PLANTER SEAT WALL - PLAN DETAIL
SCALE: 1/4" = 1'-0"



2 L6.3 7'-6" RADIUS CIRCULAR PLANTER SEAT WALL - PLAN DETAIL
SCALE: 1/4" = 1'-0"



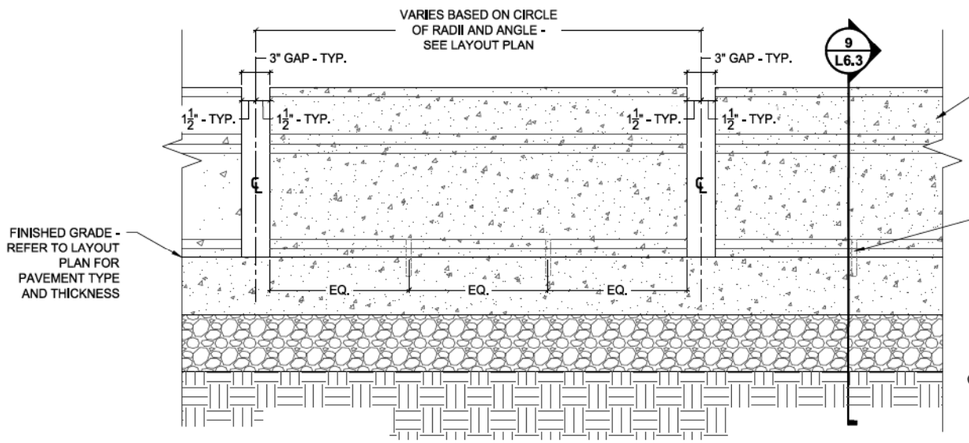
3 L6.3 10' RADIUS CIRCULAR PLANTER SEAT WALL - PLAN DETAIL
SCALE: 1/4" = 1'-0"

4 L6.3 5' RADIUS CIRCULAR PLANTER SEAT WALL BLOCK - PLAN DETAIL
SCALE: 1/2" = 1'-0"

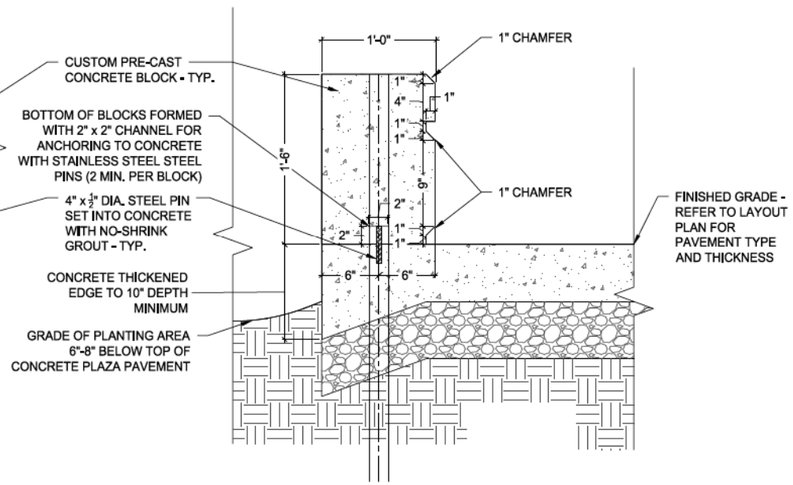
5 L6.3 7'-6" RADIUS CIRCULAR PLANTER SEAT WALL BLOCK - PLAN DETAIL
SCALE: 1/2" = 1'-0"

6 L6.3 10' RADIUS CIRCULAR PLANTER SEAT WALL BLOCK- PLAN DETAIL
SCALE: 1/2" = 1'-0"

7 L6.3 PRE-CAST CONCRETE BLOCK GAP SPACING - PLAN DETAIL
SCALE: 1-1/2" = 1'-0"



8 L6.3 CIRCULAR PLANTER SEAT WALL - ELEVATION DETAIL
SCALE: 1-1/2" = 1'-0"



9 L6.3 CIRCULAR PLANTER SEAT WALL - CROSS SECTION DETAIL
SCALE: 1-1/2" = 1'-0"

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PROJECT NO: 1755-170
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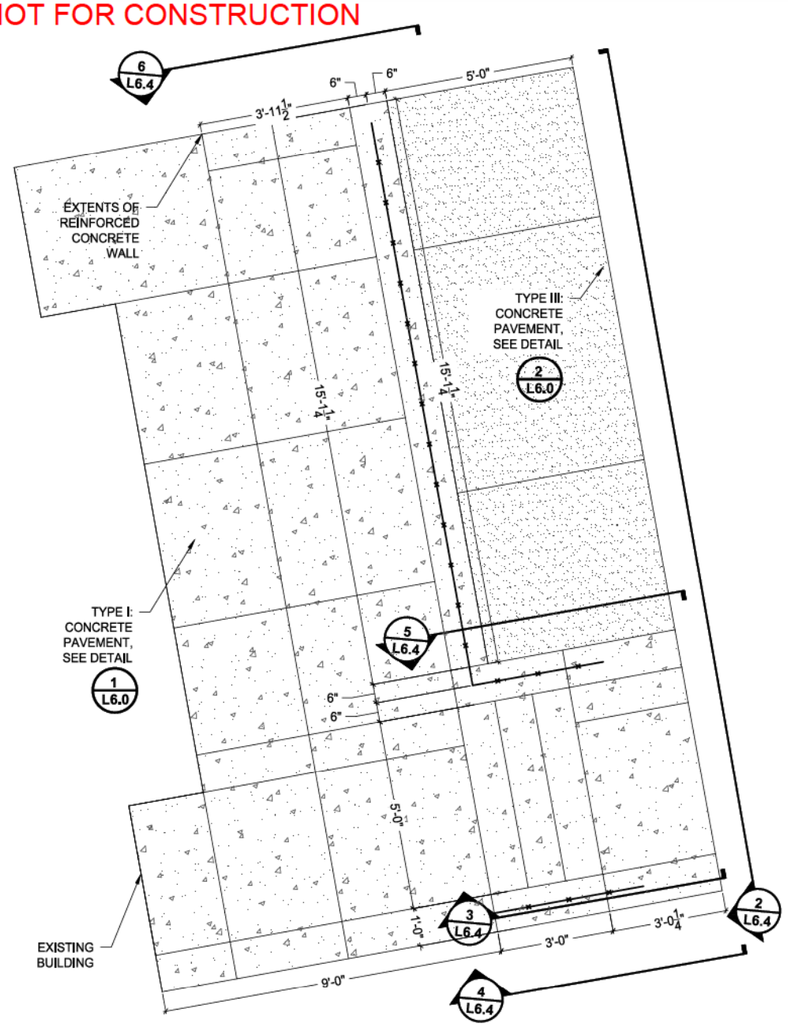
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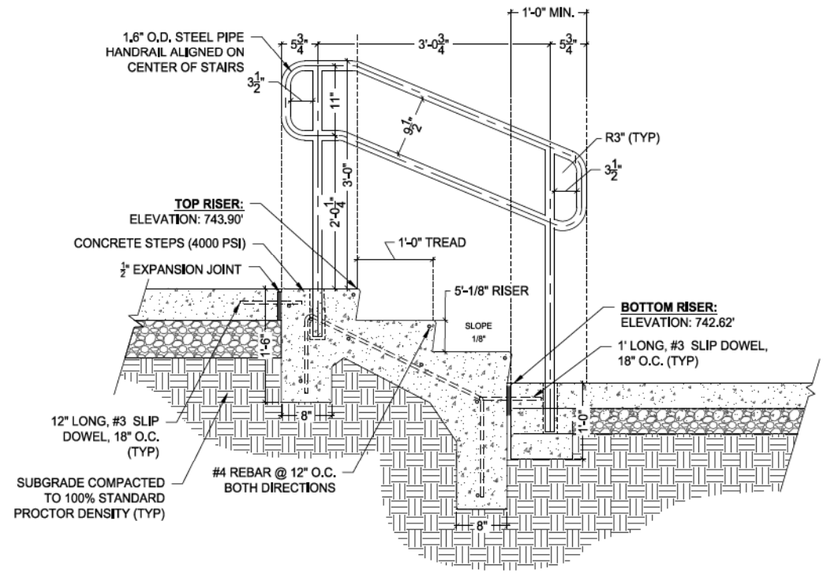
CIRCULAR PLANTER DETAILS

SHEET L6.3

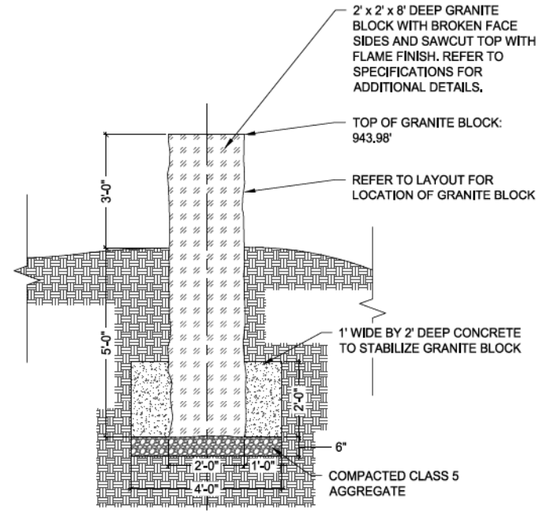
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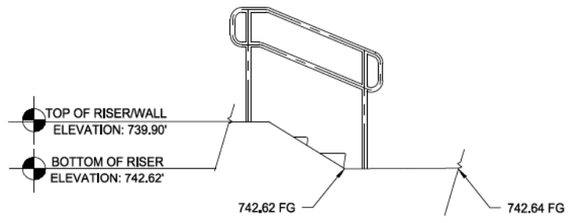
1 L6.4 **RIVER CITY PLAZA WALL - PLAN DETAIL**
SCALE: 1/2" = 1'-0"



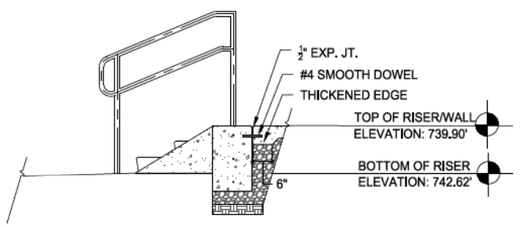
3 L6.4 **RIVER CITY PLAZA STAIR SECTION**
SCALE: 1-1/2" = 1'-0"



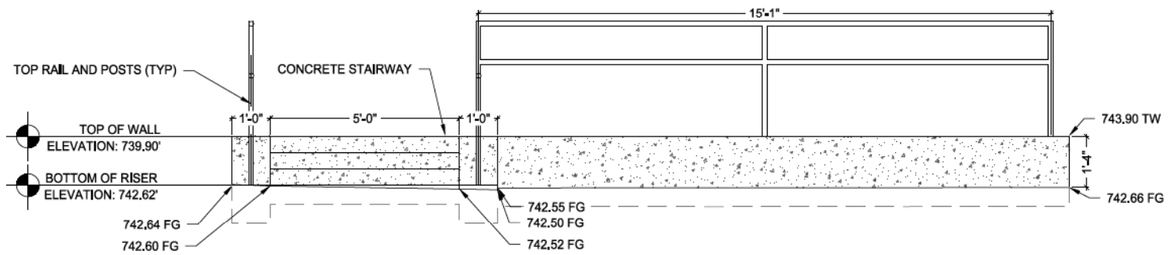
7 L6.4 **CHIEF SHAKOPEE MONUMENT BASE - SECTION DETAIL**
SCALE: 1-1/2" = 1'-0"



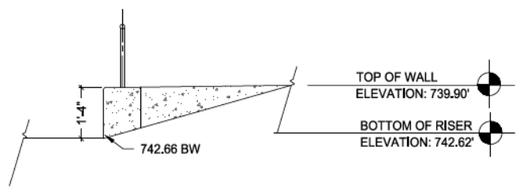
4 L6.4 **RIVER CITY PLAZA WALL NORTH ELEVATION**
SCALE: 1/2" = 1'-0"



5 L6.4 **RIVER CITY PLAZA WALL SOUTH SECTION ELEVATION**
SCALE: 1/2" = 1'-0"



2 L6.4 **RIVER CITY PLAZA WALL WEST ELEVATION**
SCALE: 1/2" = 1'-0"



6 L6.4 **RIVER CITY PLAZA WALL SOUTH ELEVATION**
SCALE: 1/2" = 1'-0"

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CHECKED BY: JLA
PROJECT NO: 1755-170
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Jason L. Amberg
DATE: MAY 05, 2017
LIC. NO. 40003

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STREET & UTILITY CONSTRUCTION
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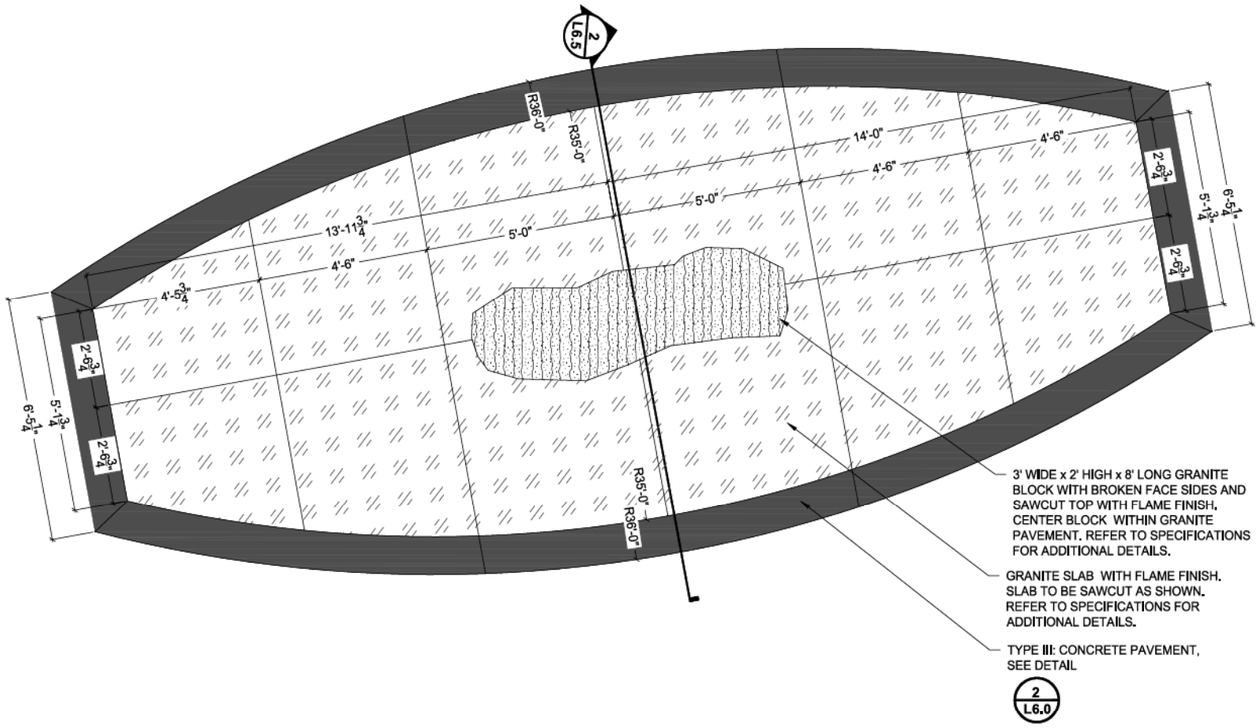
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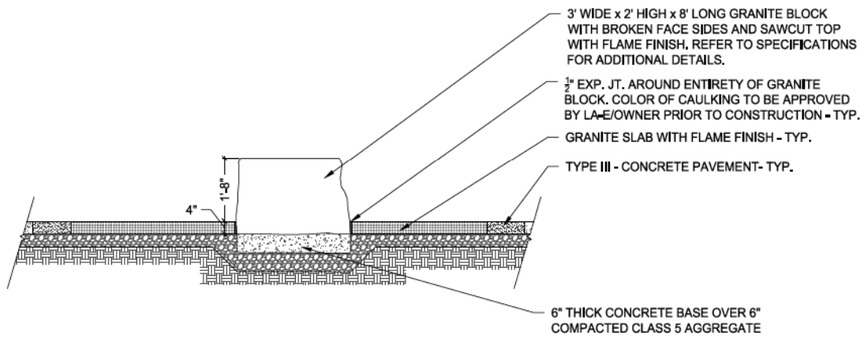
RIVER CITY PLAZA STAIR, WALLS AND CHIEF SHAKOPEE MONUMENT BASE DETAILS

SHEET L6.4

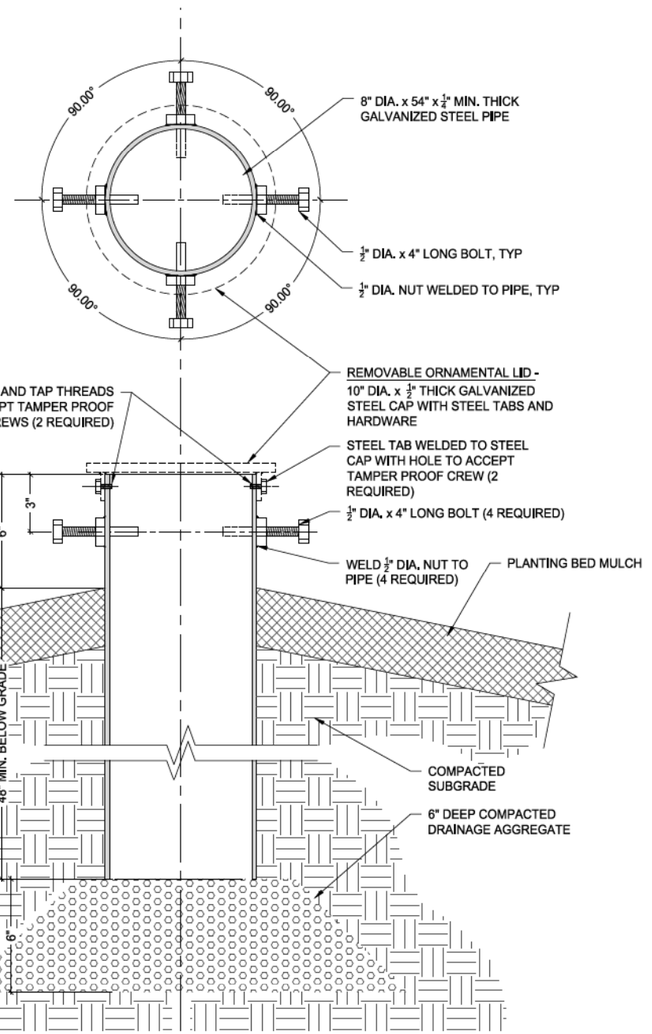
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1 L6.5 REV. POND ENLARGEMENT - PLAN DETAIL
SCALE: 1/4" = 1'-0"



2 L6.5 REV. POND CROSS SECTION
SCALE: 1-1/2" = 1'-0"



3 L6.5 TREE STAND - PLAN AND SECTION DETAIL
SCALE: 3" = 1'-0"

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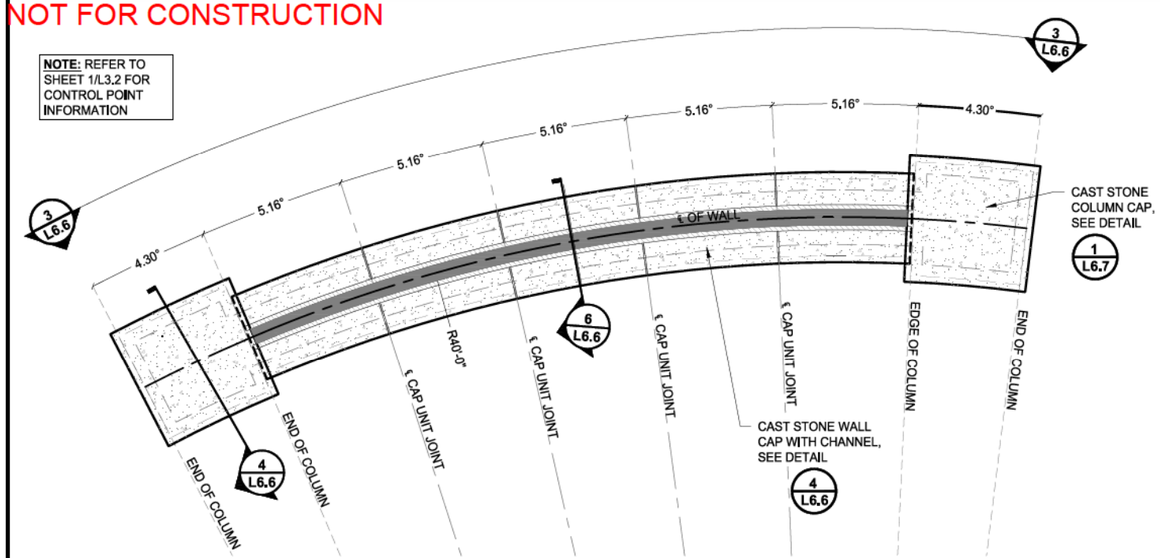
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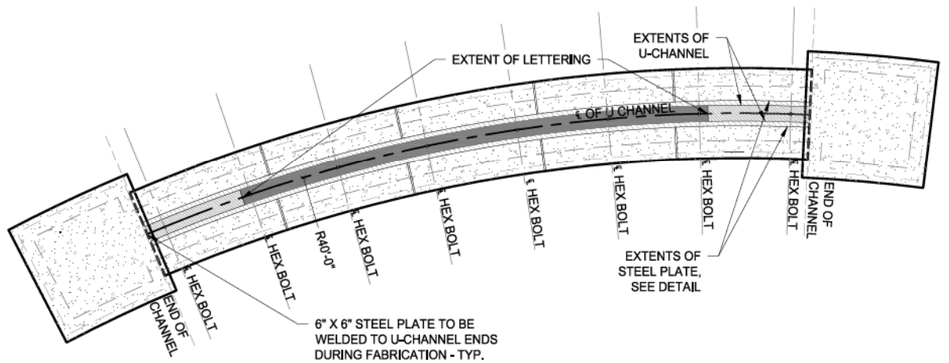
CITY PROJECT NO. REV. POND MONUMENT BASE AND TREE STAND DETAILS

SHEET L6.5

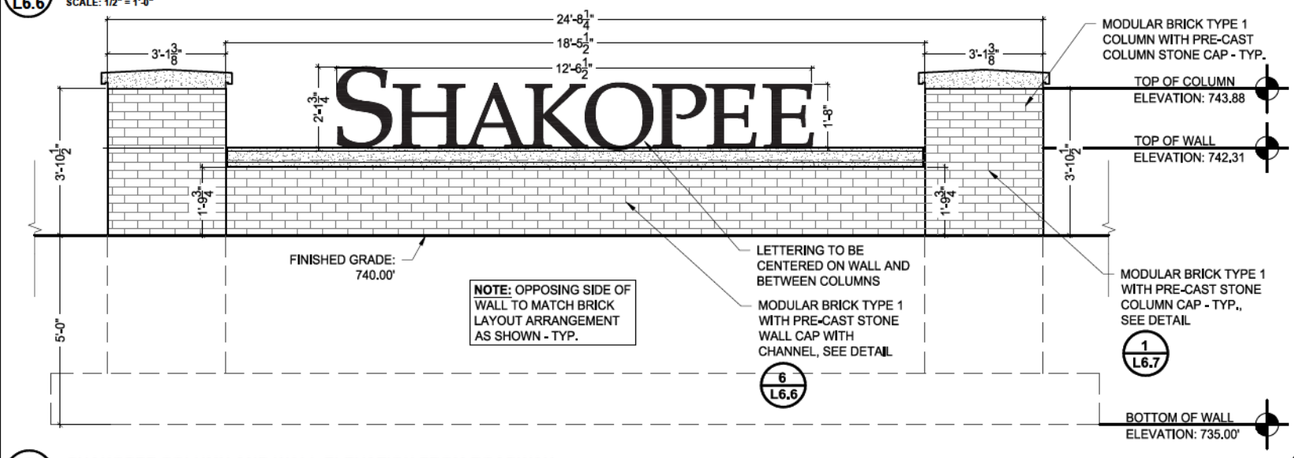
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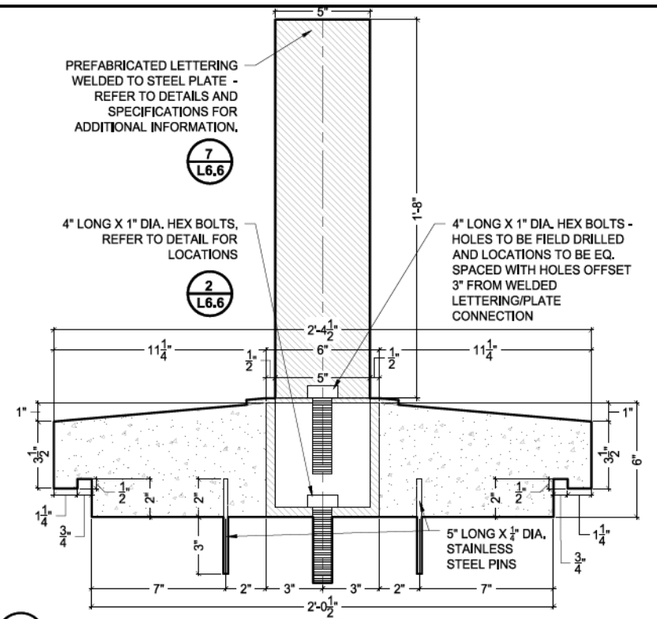
1 L6.6 SHAKOPEE SIGN WALL (ORIENTED TO HWY) - PLAN DETAIL
SCALE: 1/2" = 1'-0"



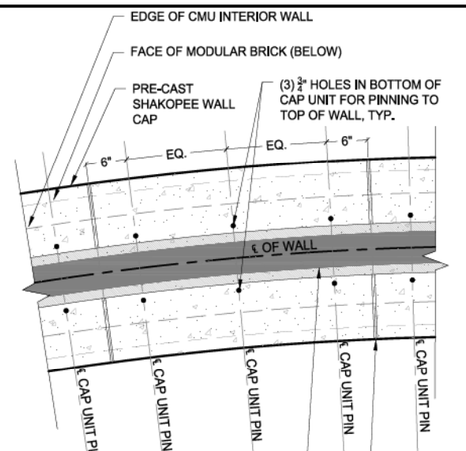
2 L6.6 STEEL PLATE WITH U-CHANNEL - PLAN DETAIL
SCALE: 1/2" = 1'-0"



3 L6.6 SHAKOPEE COLUMN AND WALL ELEVATION FROM ROADWAY
SCALE: 1/2" = 1'-0"



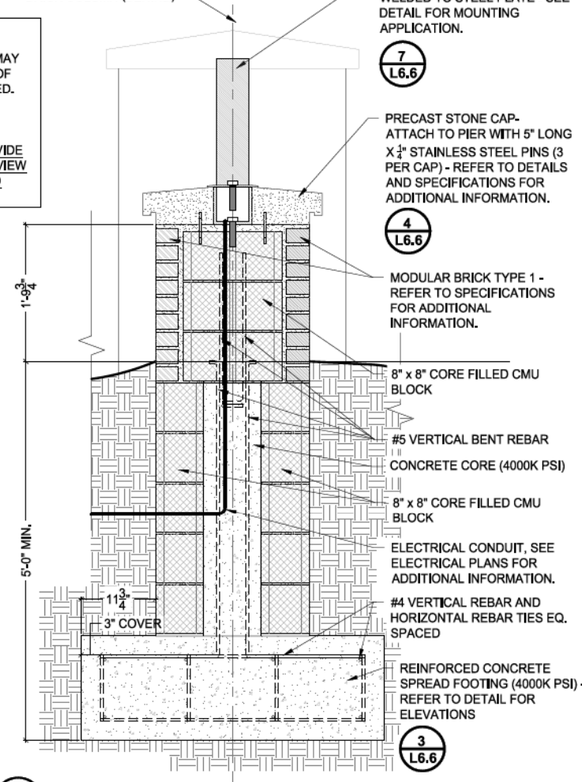
4 L6.6 PRE-CAST WALL CAP WITH CHANNEL - SECTION DETAIL
SCALE: 3" = 1'-0"



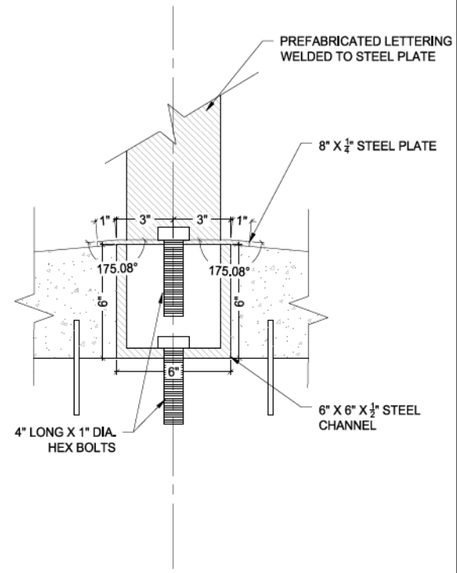
5 L6.6 PRE-CAST WALL CAP WITH CHANNEL
SCALE: 3" = 1'-0"

NOTE:
CONTRACTOR'S OPTION: POURED-IN-PLACE WALL MAY BE SUBSTITUTED IN LIEU OF CMU METHOD ILLUSTRATED.

REGARDLESS OF WHICH OPTION IS SELECTED, CONTRACTOR MUST PROVIDE SHOP DRAWINGS FOR REVIEW TO OWNER/LA-E PRIOR TO INSTALLATION.



6 L6.6 SHAKOPEE SIGN WALL - CROSS SECTION DETAIL
SCALE: 1" = 1'-0"



7 L6.6 WALL CAP PLATE AND CHANNEL - SECTION DETAIL
SCALE: 3" = 1'-0"

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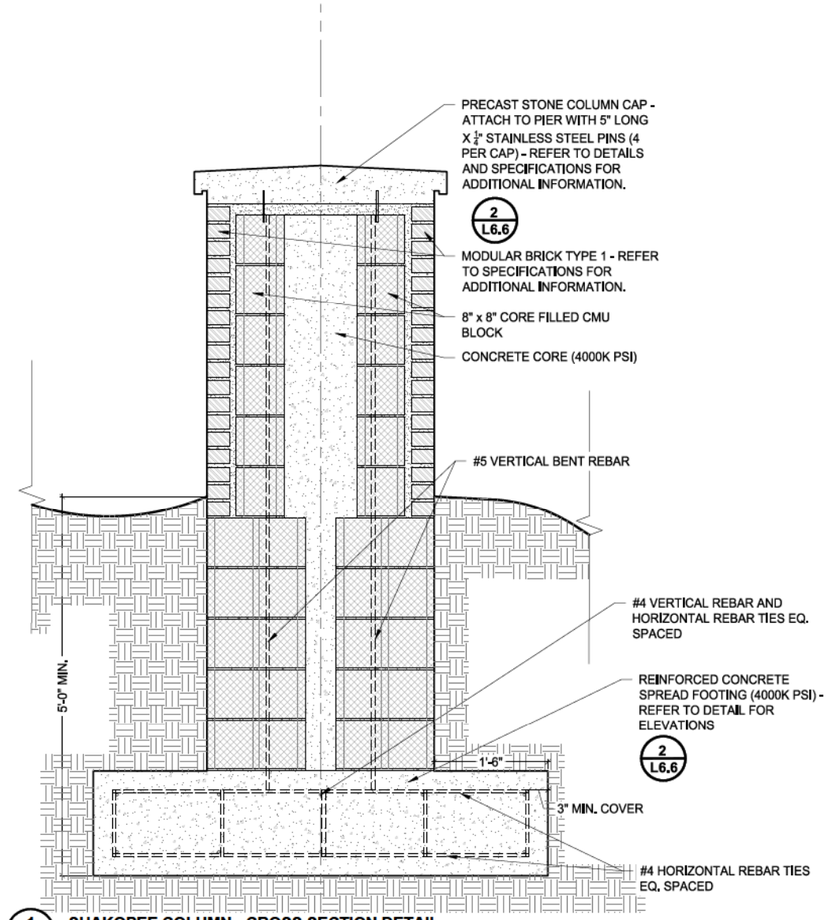
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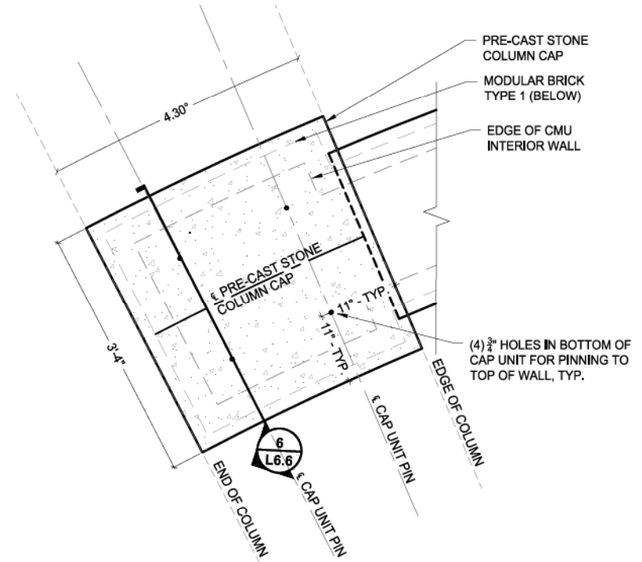
SHAKOPEE SIGN DETAILS

SHEET L6.6

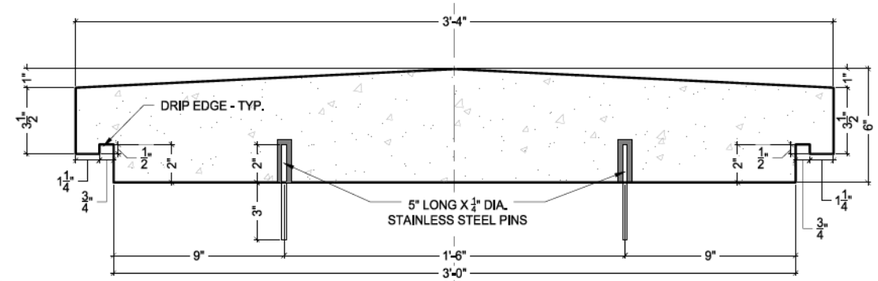
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1 L6.7 **SHAKOPEE COLUMN - CROSS SECTION DETAIL**
SCALE: 1" = 1'-0"



2 L6.7 **PRECAST STONE COLUMN CAP - PLAN DETAIL**
SCALE: 1" = 1'-0"



3 L6.7 **PRE-CAST STONE COLUMN CAP - SECTION DETAIL**
SCALE: 3" = 1'-0"

SCALE: AS NOTED
PLAN BY: SDF
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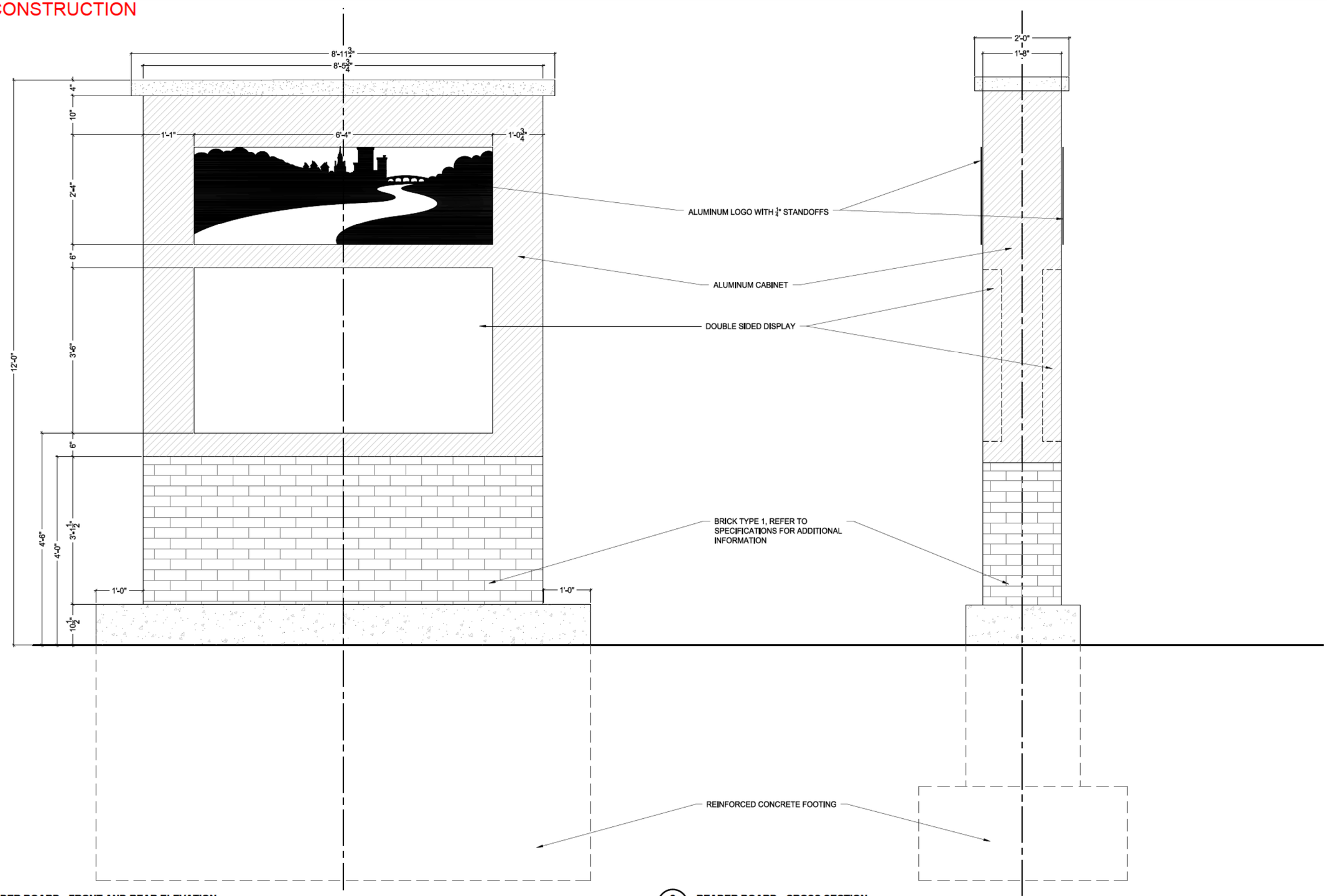
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SHAKOPEE SIGN DETAILS
SHEET L6.7

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1 L6.8 **READER BOARD - FRONT AND REAR ELEVATION**
SCALE: 1" = 1'-0"

2 L6.8 **READER BOARD - CROSS SECTION**
SCALE: 1" = 1'-0"

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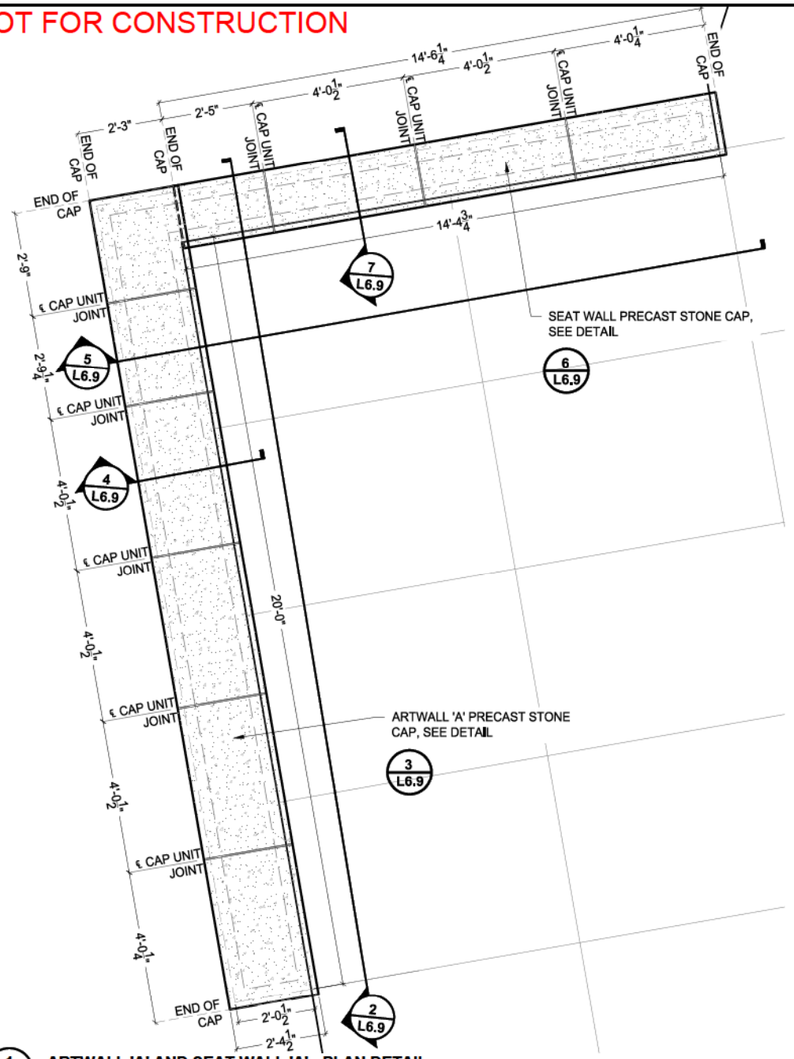
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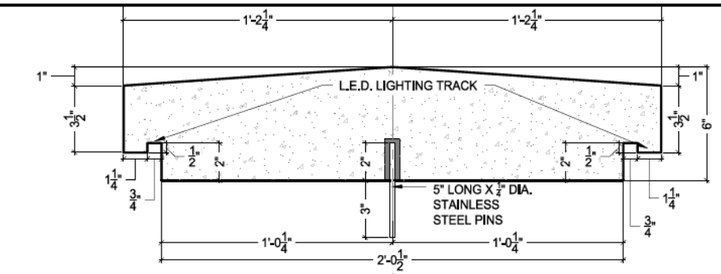
CITY PROJECT NO. READER BOARD DETAILS

SHEET L6.8

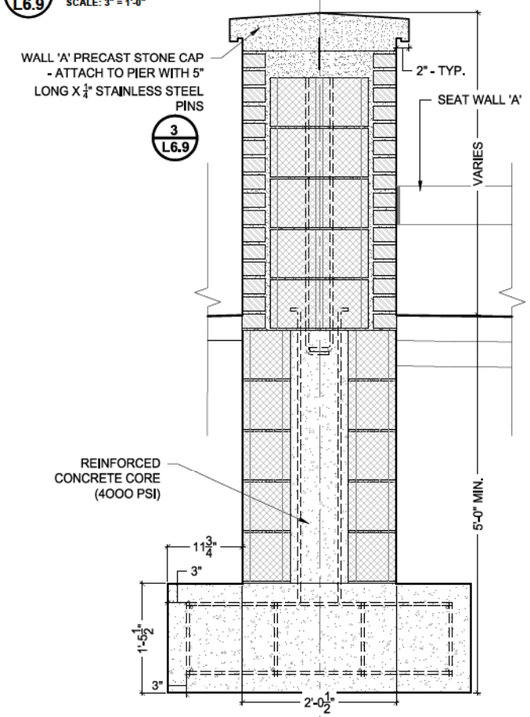
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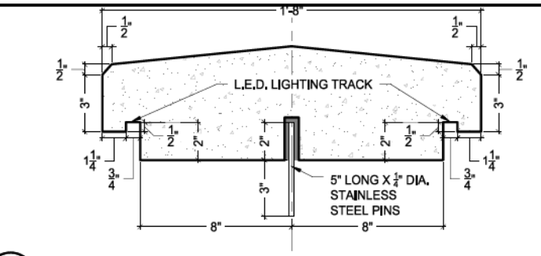
1 L6.9 **ARTWALL 'A' AND SEAT WALL 'A' - PLAN DETAIL**
SCALE: 1/2" = 1'-0"



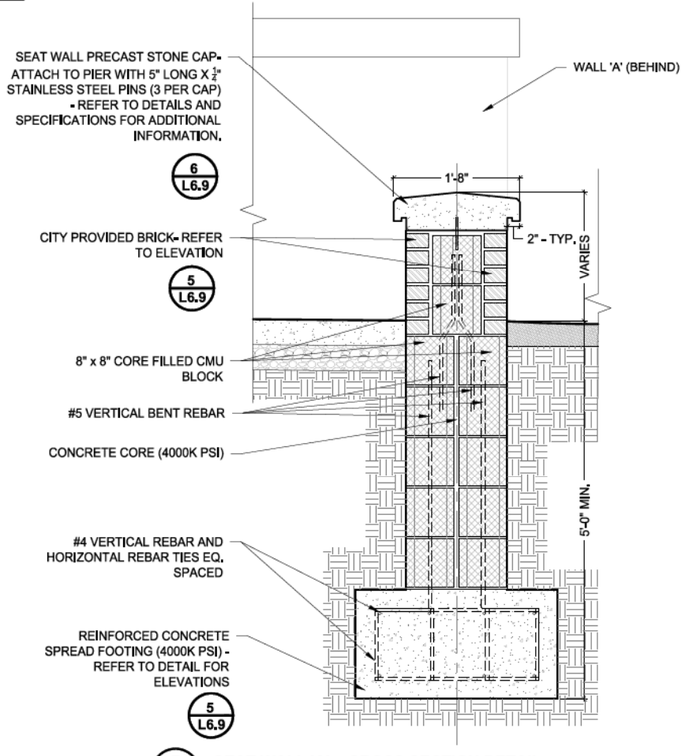
3 L6.9 **ARTWALL PRECAST STONE CAP - SECTION DETAIL**
SCALE: 3" = 1'-0"



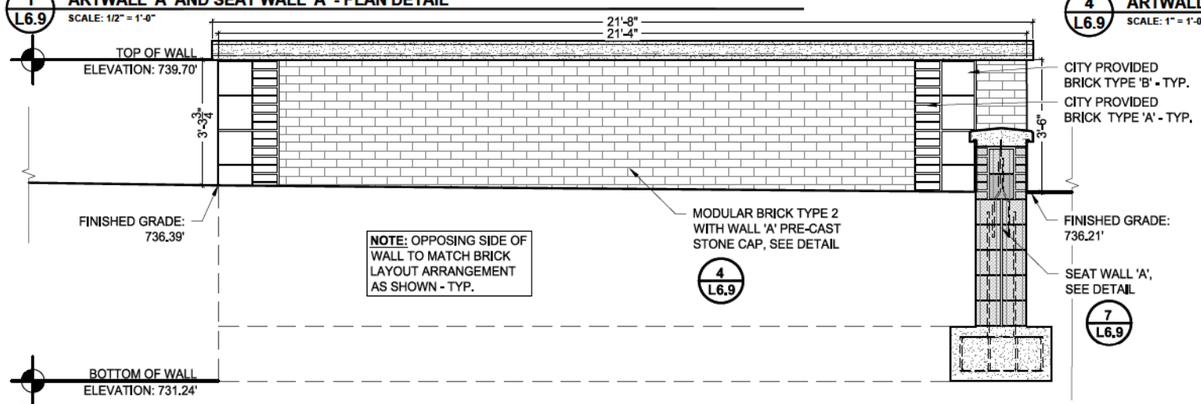
4 L6.9 **ARTWALL 'A' - CROSS SECTION DETAIL**
SCALE: 1" = 1'-0"



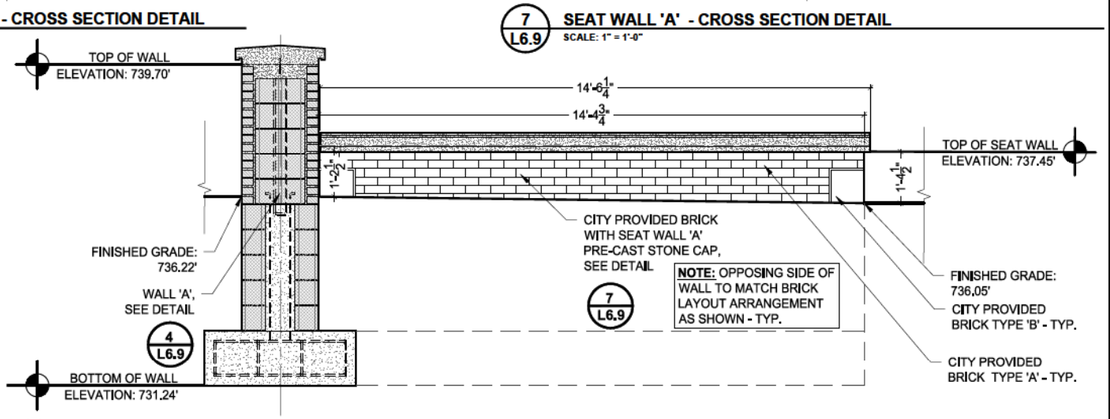
6 L6.9 **SEAT WALL PRECAST STONE CAP - SECTION DETAIL**
SCALE: 3" = 1'-0"



7 L6.9 **SEAT WALL 'A' - CROSS SECTION DETAIL**
SCALE: 1" = 1'-0"



2 L6.9 **ARTWALL 'A' - ELEVATION DETAIL**
SCALE: 1/2" = 1'-0"



5 L6.9 **SEAT WALL 'A' - ELEVATION DETAIL**
SCALE: 1/2" = 1'-0"

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SCALE: AS NOTED
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DESIGN BY: JLA
CHECKED BY: JLA
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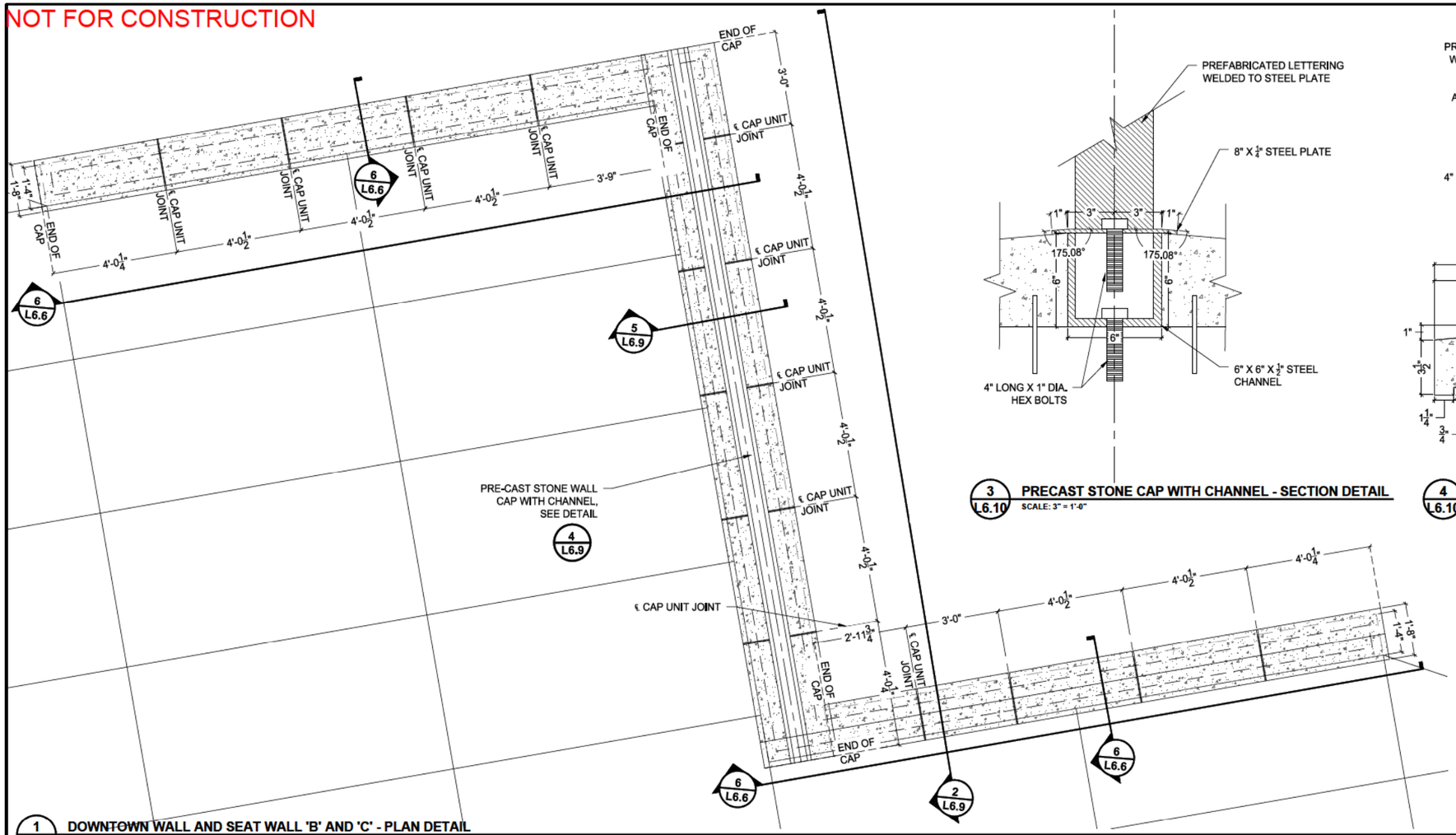
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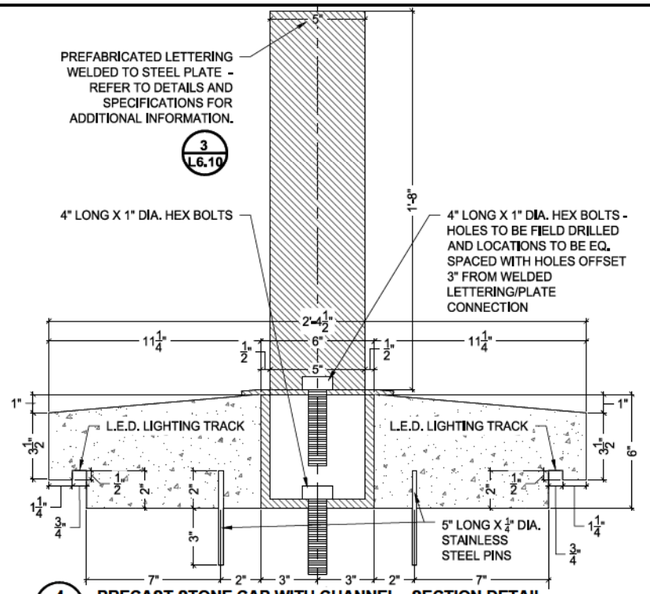
CITY PROJECT NO. | ARTWALL 'A' AND SEAT WALL 'A' DETAILS | SHEET L6.9

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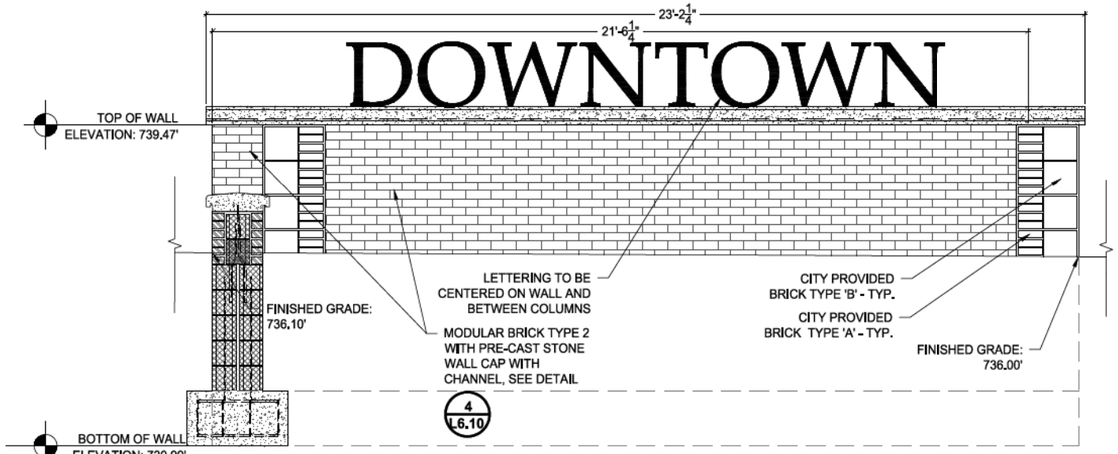


1 L6.10 **DOWNTOWN WALL AND SEAT WALL 'B' AND 'C' - PLAN DETAIL**
SCALE: 1/2" = 1'-0"

3 L6.10 **PRECAST STONE CAP WITH CHANNEL - SECTION DETAIL**
SCALE: 3" = 1'-0"



4 L6.10 **PRECAST STONE CAP WITH CHANNEL - SECTION DETAIL**
SCALE: 3" = 1'-0"



2 L6.10 **DOWNTOWN WALL- ELEVATION DETAIL**
SCALE: 1/2" = 1'-0"

5 L6.10 **DOWNTOWN WALL - CROSS SECTION DETAIL**
SCALE: 1/4" = 1'-0"

REVISION NO. DATE

SCALE: AS NOTED
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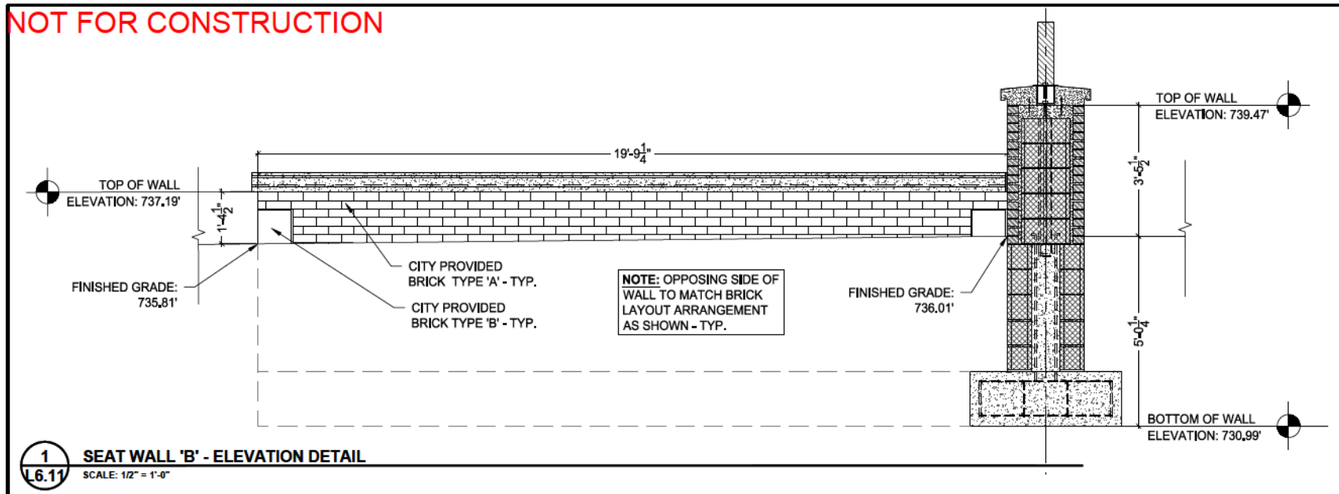
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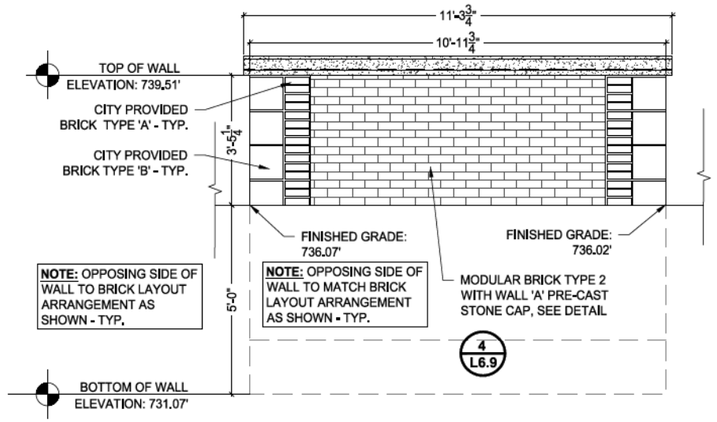
CITY PROJECT NO. DOWNTOWN WALL DETAILS

SHEET L6.10

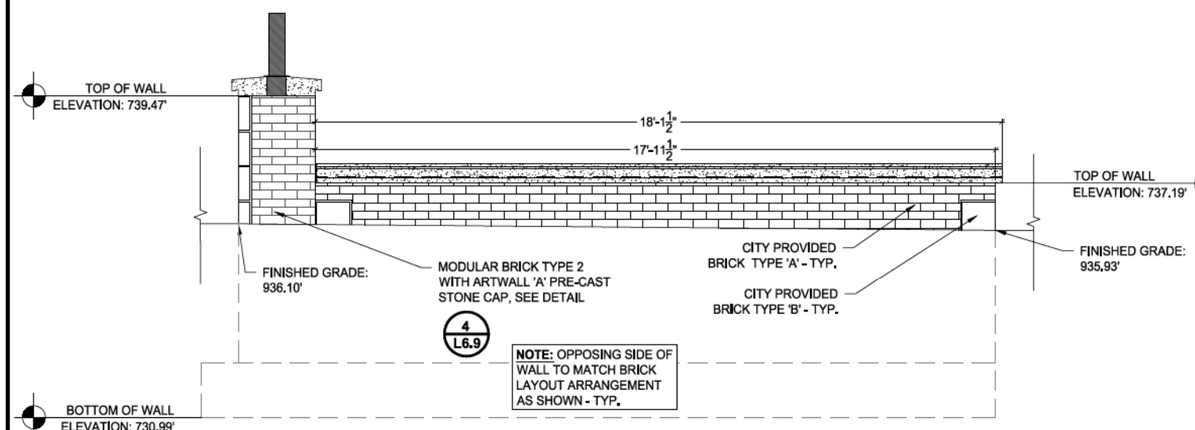
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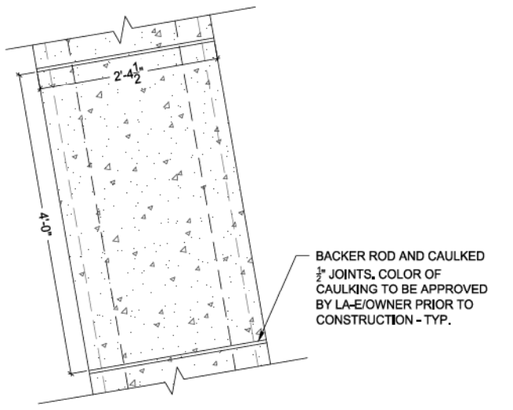
1 L6.11 SEAT WALL 'B' - ELEVATION DETAIL
SCALE: 1/2" = 1'-0"



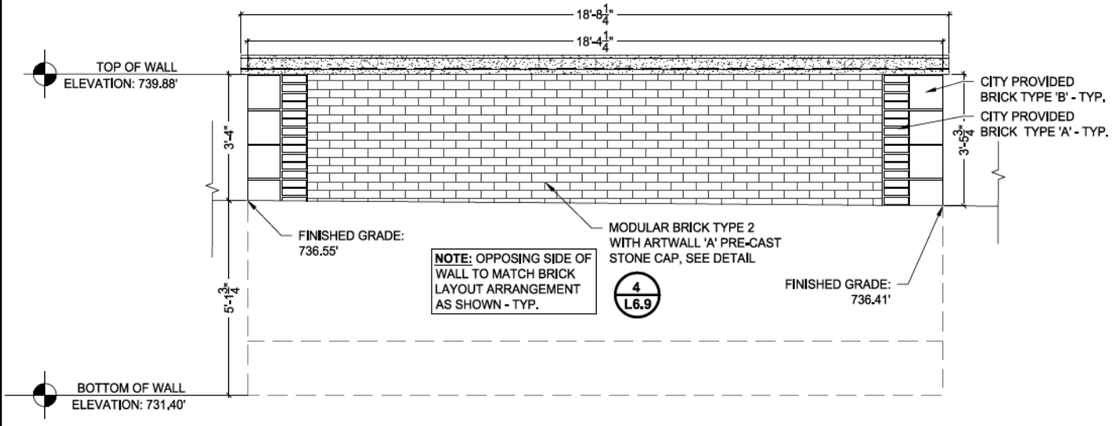
4 L6.11 ARTWALL 'C' - ELEVATION DETAIL
SCALE: 1/2" = 1'-0"



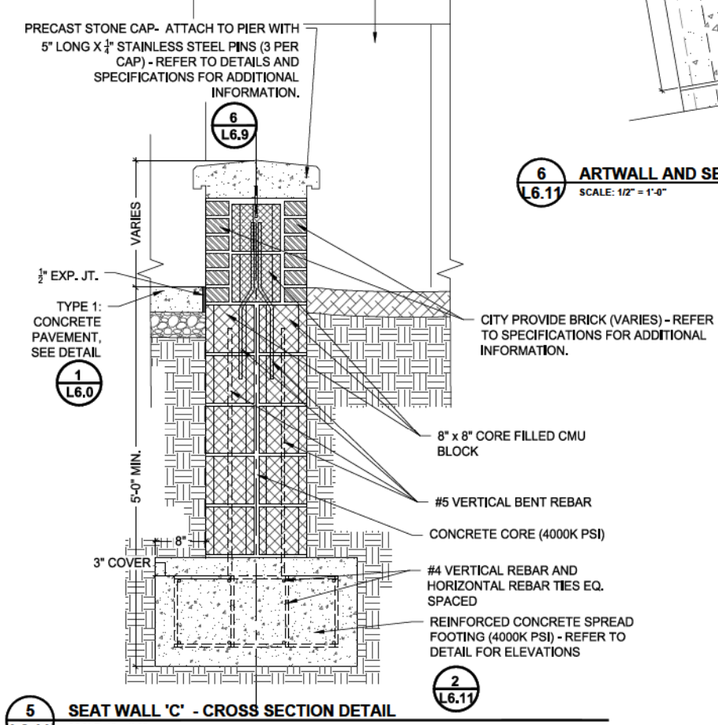
2 L6.11 SEAT WALL 'C' - ELEVATION DETAIL
SCALE: 1/2" = 1'-0"



6 L6.11 ARTWALL AND SEATWALL CAP - PLAN DETAIL
SCALE: 1/2" = 1'-0"



3 L6.11 ARTWALL 'B' - ELEVATION DETAIL
SCALE: 1/2" = 1'-0"



5 L6.11 SEAT WALL 'C' - CROSS SECTION DETAIL
SCALE: 1" = 1'-0"

REVISION NO.
DATE

SCALE: AS NOTED
PLAN BY: SDF
DESIGN BY: JLA
CHECKED BY: JLA
PROJECT NO 1755-170
DATE
RECORD COPY BY:

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Jason L. Arneng
DATE: MAY 05, 2017
LIC. NO. 40003

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STREET & UTILITY CONSTRUCTION
SHAKOPEE, MINNESOTA

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CITY PROJECT NO.

ARTWALL AND SEATWALL 'B' AND 'C' DETAILS

SHEET L6.11

DESIGN REVIEW SET
NOT FOR CONSTRUCTION

GENERAL NOTES:

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION START. CONTRACTOR IS RESPONSIBLE FOR ALL LOCATES. ALL LOCATES SHALL BE REVIEWED BY THE OWNER/LA-E PRIOR TO CONSTRUCTION START.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES, UTILITIES, TREES, SITE AMENITIES, ETC, THAT ARE TO REMAIN FROM DAMAGE DURING CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGE TO EXISTING ITEMS TO REMAIN (AT CONTRACTOR'S EXPENSE) AND IS CONSIDERED INCIDENTAL TO THE CONTRACT.

DIMENSIONS TAKE PRECEDENCE OVER SCALE. FIELD VERIFY (FV) ITEMS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

** ANY DISCREPANCIES FOUND THAT AFFECT THE WORK SHALL BE REPORTED TO THE OWNER/L.A.-E. FOR CLARIFICATION PRIOR TO ANY ADDITIONAL WORK BEING COMPLETED.

UTILITY NOTES:

PRIOR TO BEGINNING WORK ON THIS PROJECT, THE CONTRACTOR SHALL HAVE ALL PUBLIC AND PRIVATE UTILITY LOCATIONS MARKED ON THE PROJECT SITE.

DISCREPANCIES BETWEEN LOCATIONS SHOWN AS EXISTING CONDITIONS ON PLAN SHEETS AND THOSE ACTUALLY MARKED ON THE PROJECT SITE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LA-E/OWNER. ALL LOCATES SHALL BE INCIDENTAL TO THE PROJECT.

STATE LAW: 48 HOURS BEFORE EXCAVATING, CALL GOPHER STATE ONE-CALL AT 651-454-0002 FOR FIELD LOCATION OF UNDERGROUND UTILITY LINES. THIS IS A FREE SERVICE WHICH WILL LOCATE UTILITY-COMPANY LINES, BUT WILL NOT LOCATE CITY OR PRIVATELY OWNED LINES.

COORDINATE WITH ELECTRICAL CONTRACTORS FOR SITE ELECTRICAL WORK AND SITE LIGHTING.

TOPSOIL & EARTHWORK REQUIREMENTS:

TOPSOIL SHALL BE STRIPPED FROM ALL DISTURBED AREAS AND STOCKPILED IN PILES NOT EXCEEDING 8 FEET IN DEPTH FOR RESPREAD. NOTE: LOCATION OF STOCKPILE SHALL BE DETERMINED BY THE OWNER/LA-E IN THE FIELD. STOCKPILE AREA WILL REQUIRE SILT FENCE AROUND IT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

AS EARTHWORK PROGRESSES, THE CONTRACTOR SHALL REMOVE ALL FILL SOILS ENCOUNTERED FROM AREAS TO BE PAVED AND REPLACE WITH NATIVE SAND SOILS (WHICH MAY BE MINED ON SITE IF APPROVED OF BY THE OWNER) OR IMPORTED COMMON BORROW TO ACHIEVE PROPER COMPACTION. AS INDICATED IN THE GEOTECHNICAL REPORT. THE CONTRACTOR MAY WORK EXISTING SAND SOILS WITH APPLICATION OF WATER IF PROPER COMPACTION CAN BE ACHIEVED BENEATH AREAS TO BE PAVED. REFER ALSO TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

A MIN. 6 INCH DEPTH OF A TOPSOIL SHALL BE PLACED ON ALL AREAS INDICATED FOR TURF AND NATIVE SEED AREAS, EXCLUDING AREAS THAT ARE HARD SURFACED, OR STATED OTHERWISE. THE TOPSOIL SHALL BE FINE GRADED, RAKED AND DRAGGED TO PROVIDE A SMOOTH, UNIFORM SURFACE. TOPSOIL GRADES SHALL BE WITHIN .05 FEET OF INDICATED FINISHED GRADE AND SHALL BE TRUE TO GRADIENTS SHOWN ON PLANS.

SPOT GRADES & DRAINAGE REQUIREMENTS:

THE CONTRACTOR AND SURVEYOR SHALL REVIEW ALL GRADING WITH THE LA-E PRIOR TO CONSTRUCTION TO ENSURE PROPER DRAINAGE AND GRADING.

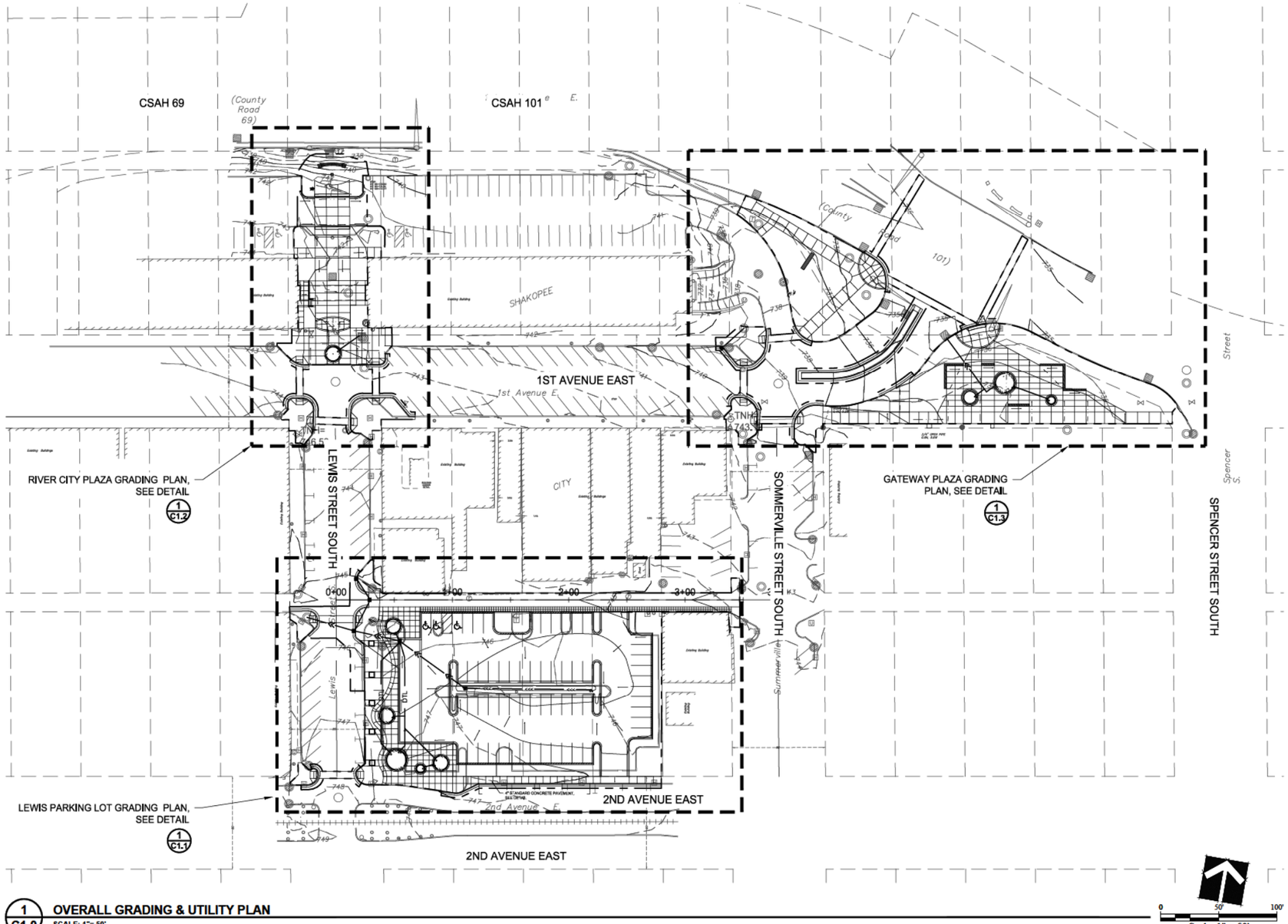
THE INTENT OF ALL PROPOSED SPOT GRADES AND GRADING IN GENERAL IS TO MATCH EXISTING GRADES ADJACENT TO NEW CONSTRUCTION AND TO ENSURE PROPER DRAINAGE AND BLENDING OF NEW GRADES WITH EXISTING ONES. SPOT GRADES SHOWN ARE TO FINISH GRADE. CONTRACTOR SHALL SUBCUT IN ACCORDANCE WITH THE PLANS, DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL FIELD VERIFY AND CONFIRM ALL GRADES WITH THE LA-E AFTER INITIAL SURVEY / STAKING WORK AND PRIOR TO START OF GRADING OPERATIONS.

A 1.5% CROSS SLOPE SHALL BE MAINTAINED ACROSS ALL CONCRETE PADS / PAVEMENTS / AND ASPHALT TRAILS UNLESS STATED OTHERWISE ON THE PLAN.

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

SUBCUT REQUIREMENTS:

GRADES AS SHOWN ARE TO FINISH GRADE. GRADING CONTRACTOR SHALL SUBCUT IN ACCORDANCE WITH THE PLANS, DETAILS AND SPECIFICATIONS.



1/C1.0 **OVERALL GRADING & UTILITY PLAN**
SCALE: 1"= 50'

REVISION NO.	DATE

SCALE: AS NOTED
PLAN BY: | DESIGN BY: EL
CHECKED BY: EL | PROJECT NO 1756-17
RECORD COPY BY: | DATE

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EMILY A. LUETH, P.E. LIC. NO. 51773
DATE MAY XX, 2017

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CITY PROJECT NO.

OVERALL
GRADING & UTILITY PLAN

SHEET C1.0

DESIGN REVIEW SET
NOT FOR CONSTRUCTION

LEWIS ALLEY GRADING ENLARGEMENT PLAN, SEE DETAIL 1/C1.2

42 LF - 15" RCP STORM @ 0.5%

30 LF - 15" RCP STORM @ 1.0%

40 LF - 15" RCP STORM @ 0.5%

4" CLEAN-OUT ASSEMBLY RIM = 744.99 INV = 741.97

PEDESTRIAN RAMP DETAIL B 2/C1.6

CONNECT TO EXISTING EXCB-03 VERIFY EX. INVERTS AND GEOMETRY BEFORE PLACING NEW PIPE INV(E) = 739.95 INV(N) = 739.95

CB-04 2'x3' CB NEENAH R-3067-V, ESS BROS 330 HIGH CAPACITY, OR APPROVED EQUAL REFERENCE SHAKOPEE DETAIL NO. 4002 RIM = 945.62 INV = 740.16

CB-05 2'x3' CB NEENAH R-3067-V, ESS BROS 330 HIGH CAPACITY, OR APPROVED EQUAL REFERENCE SHAKOPEE DETAIL NO. 4002 RIM = 744.94 15" INV = 740.36 4" INV = 741.94

INV=741.40

64 LF - 15" RCP STORM @ 0.5%

4" SOLID LINE EPOXY -WHITE (TYP.)

RIBBON CURB, SEE DETAIL 1/C1.6

GUTTER OUT

EME OVERFL ELEVATION= 744.52

BIOINFILTRATION SWALE HWL = 744.36

4" CLEAN-OUT ASSEMBLY TOP = 744.33 INV = 742.01

4" PERF. PVC @ 0.9%

4" PERF. PVC @ 0.5%

4" PERF. HDPE @ 0.3%

CB-06 48" MH CB 48" GALVANIZED GRATE OR APPROVED EQUAL REFERENCE SHAKOPEE DETAILS NO. 4003 AND 4012 RIM = 744.25 15" INV (NW) = 740.68 4" INV (E) = 741.68

RIBBON CURB, SEE DETAIL 1/C1.7

4" CLEAN-OUT ASSEMBLY TOP = 746.60 INV = 742.31

4" CLEAN-OUT ASSEMBLY TOP = 746.90 INV = 742.15

4" CLEAN-OUT ASSEMBLY TOP = 746.67 INV = 742.42

4" CLEAN-OUT ASSEMBLY TOP = 747.50 INV = 742.65

4" CLEAN-OUT ASSEMBLY TOP = 747.50 INV = 742.55

4" CLEAN-OUT ASSEMBLY TOP = 747.15 INV = 742.50

4" SOLID LINE EPOXY -WHITE (TYP.)

Lewis Street S.

2nd Avenue F

1 C1.1 LEWIS PARKING LOT GRADING & UTILITY PLAN
SCALE: 1"= 10'

Scale: 1" = 10'

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STREET & UTILITY CONSTRUCTION
SHAKOPEE, MINNESOTA

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DATE MAY XX, 2017 LIC. NO. 51773

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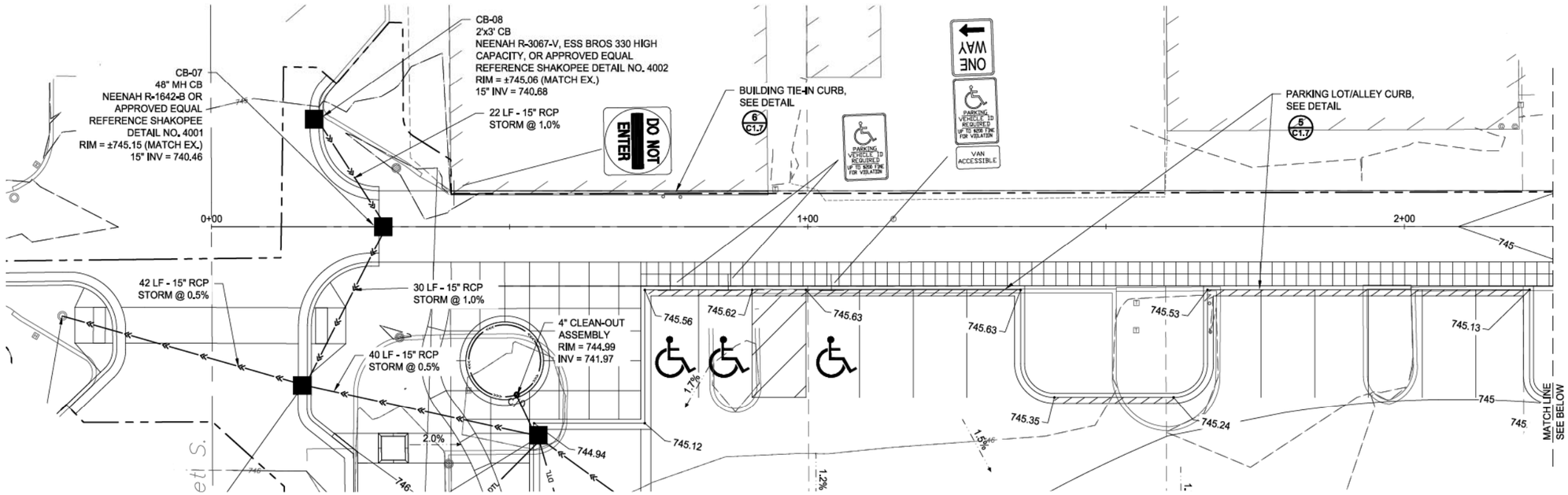
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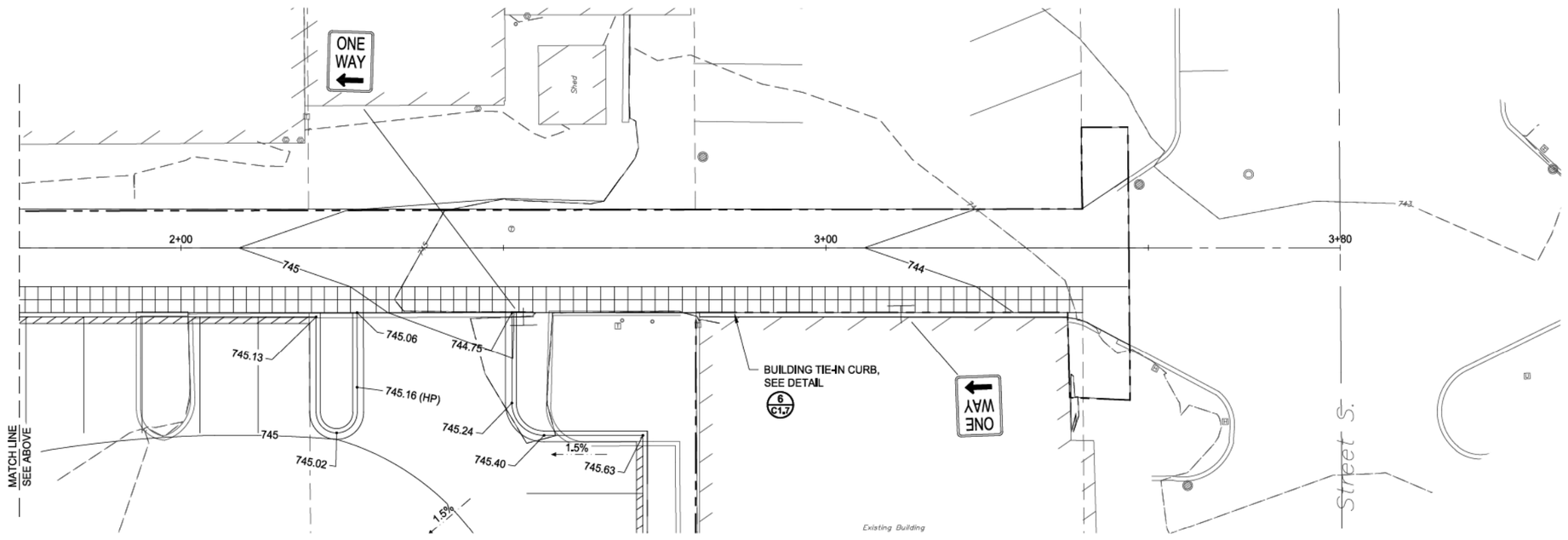
CITY PROJECT NO.

LEWIS PARKING LOT GRADING & UTILITY PLAN

SHEET C1.1

DESIGN REVIEW SET
NOT FOR CONSTRUCTION





1 C1.2 **ALLEY GRADING & UTILITY PLAN**
SCALE: 1"= 10'

REVISION NO. DATE

SCALE: AS NOTED
PLAN BY: DESIGN BY: EL
CHECKED BY: EL PROJECT NO: 1756-17
RECORD COPY BY: DATE

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EMILY A. LUETH, P.E.
DATE MAY XX, 2017 LIC. NO. 51773

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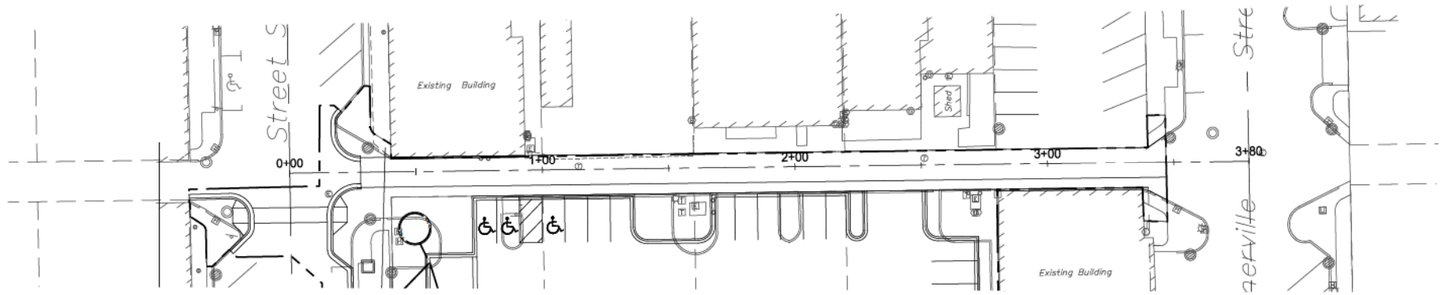
CITY PROJECT NO.

ALLEY
GRADING & UTILITY PLAN

SHEET C1.2

DESIGN REVIEW SET

NOT FOR CONSTRUCTION

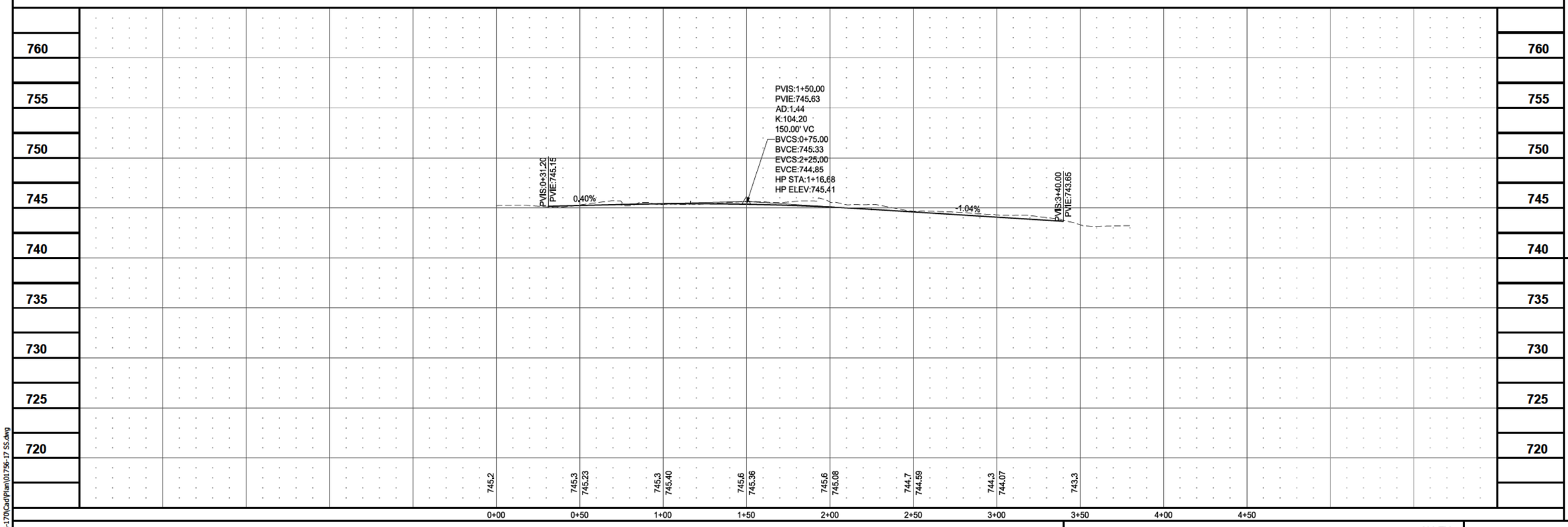


NOTES

1. TYPICAL TRANSVERSE JOINT TYPE C2H SHALL BE AT 12' SPACING.
2. IF CONTRACTOR ELECTS TO BUILD THE PAVEMENT WITH A CENTERLINE JOINT, IT SHALL BE TYPE L2TH AND TRANSVERSE JOINT SPACING SHALL BE REDUCED TO 8' SPACING.

1 / C1.3 **LEWIS ALLEY GRADING ENLARGEMENT PLAN**
SCALE: 1"= 30'

0 30' 60'
Scale: 1" = 30'



REVISION NO. DATE

SCALE: AS NOTED
PLAN BY: DESIGN BY: EL
CHECKED BY: EL PROJECT NO. 1756-17
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EMILY A. LUETH, P.E.
DATE: MAY XX, 2017 LIC. NO. 51773

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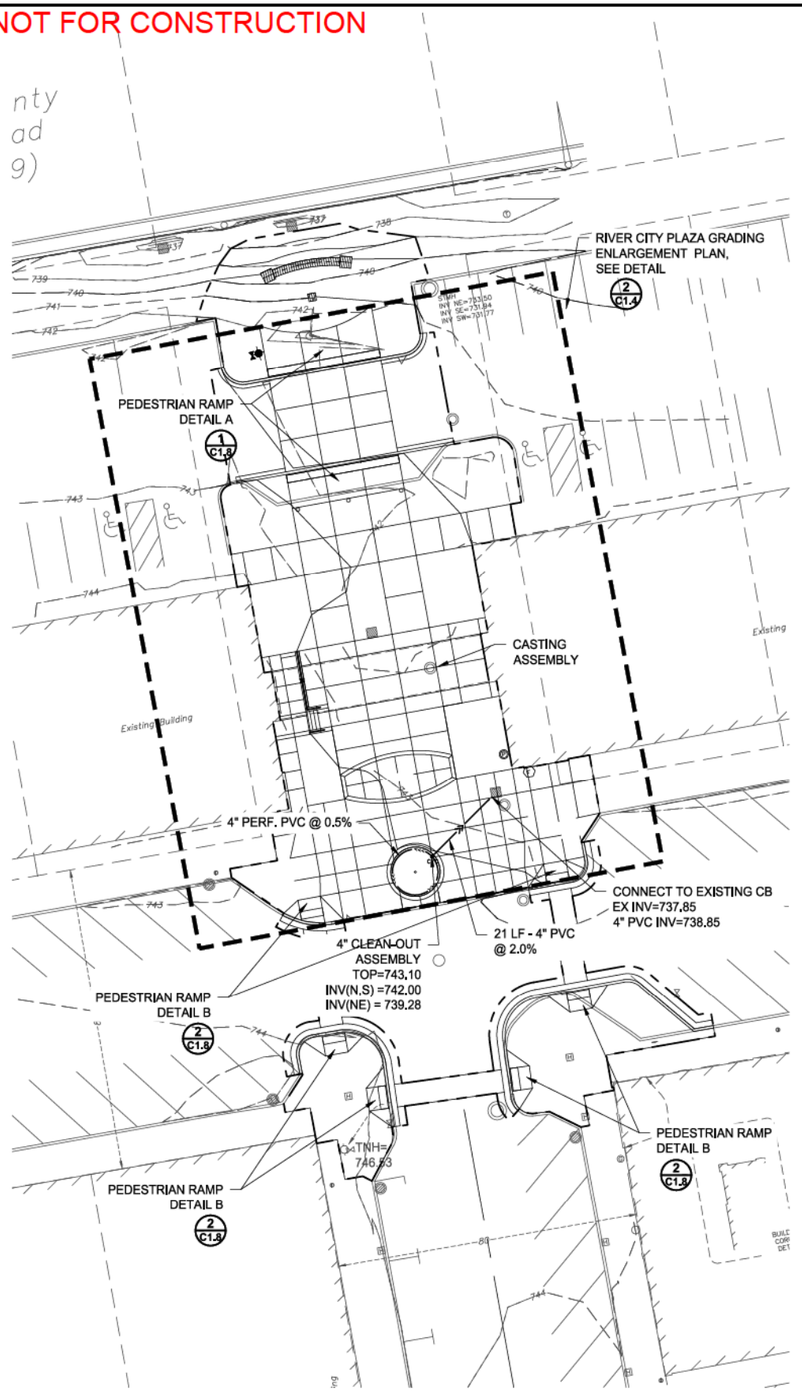
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CITY PROJECT NO.

ALLEY PROFILE PLAN

SHEET C1.3

DESIGN REVIEW SET
NOT FOR CONSTRUCTION



1 C1.4 **RIVER CITY PLAZA GRADING & UTILITY PLAN**
SCALE: 1"= 20'

Scale: 1" = 20'



2 C1.4 **RIVER CITY PLAZA GRADING & UTILITY ENLARGEMENT PLAN**
SCALE: 1"= 10'

Scale: 1" = 10'

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DATE

SCALE: AS NOTED
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CHECKED BY: EL
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DATE: MAY XX, 2017
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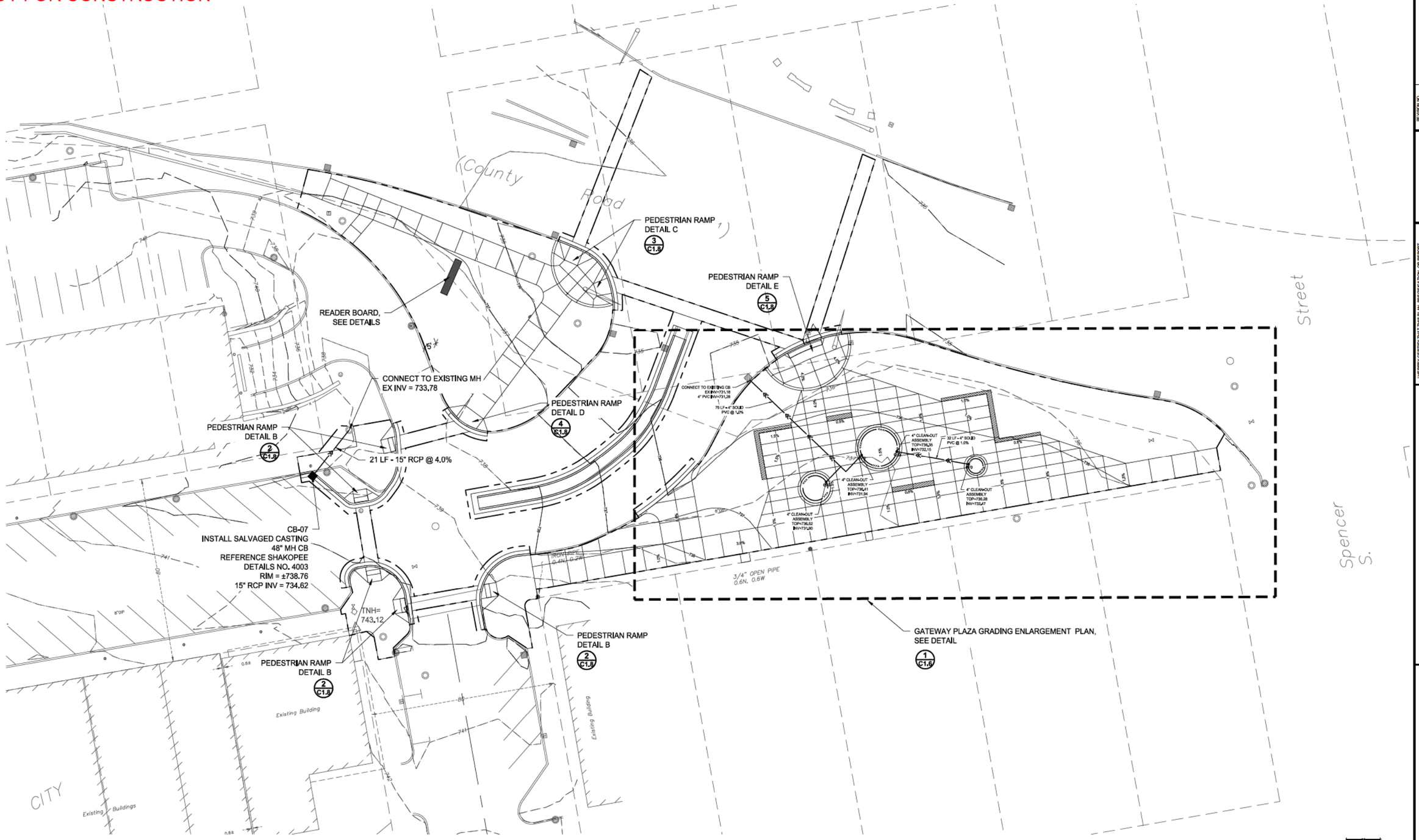
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CITY PROJECT NO.

RIVER CITY PLAZA
GRADING & UTILITY PLAN

SHEET C1.4

DESIGN REVIEW SET
NOT FOR CONSTRUCTION



1 C1.5 **GATEWAY PLAZA GRADING & UTILITY PLAN**
SCALE: 1"= 20'

Scale: 1" = 20'

REVISION NO.
DATE

SCALE: AS NOTED
PLAN BY:
DESIGN BY: EL
CHECKED BY: EL
PROJECT NO 1755-17
RECORD COPY BY:
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EMILY A. UETH, P.E.
DATE: MAY XX, 2017
LIC. NO. 51773

DOWNTOWN IMPROVEMENTS
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SHAKOPEE, MINNESOTA

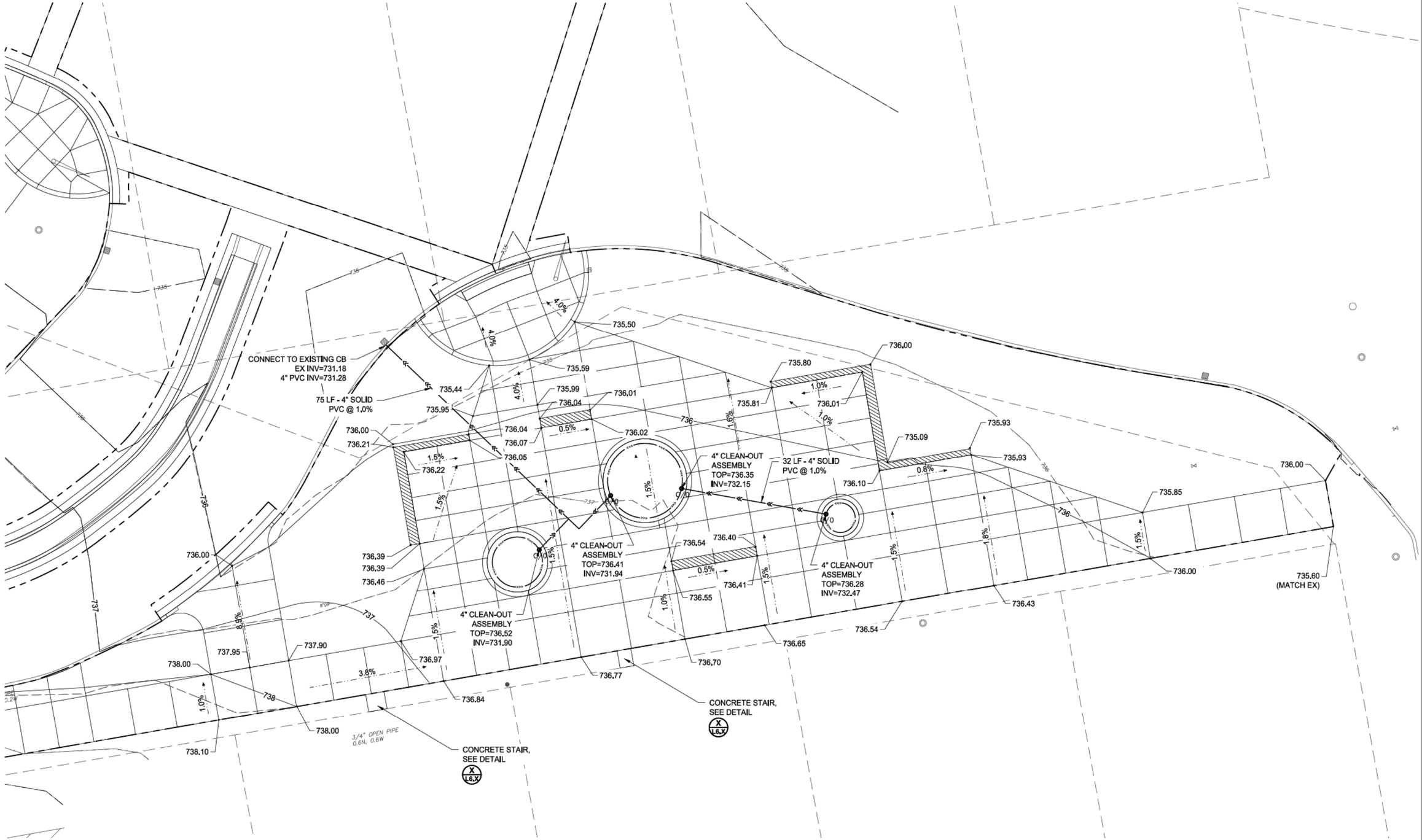
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	CITY PROJECT NO.	GATEWAY PLAZA GRADING & UTILITY PLAN

SHEET C1.5

DESIGN REVIEW SET
NOT FOR CONSTRUCTION



1 C1.6 **GATEWAY PLAZA GRADING & UTILITY ENLARGEMENT PLAN**
1"= 10'

Scale: 1" = 10'

REVISION NO.
DATE

SCALE: AS NOTED
PLAN BY: DESIGN BY: EL
CHECKED BY: EL PROJECT NO 1756-17
RECORD COPY BY: DATE

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DATE: MAY XX, 2017 LIC. NO. 51773

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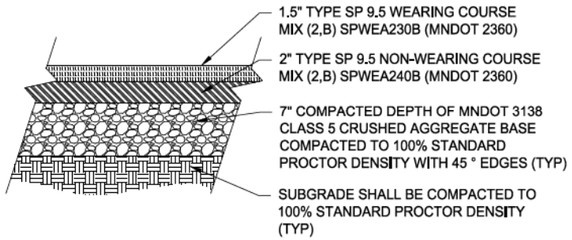
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CITY PROJECT NO.

GATEWAY PLAZA
GRADING & UTILITY ENLARGEMENT PLAN

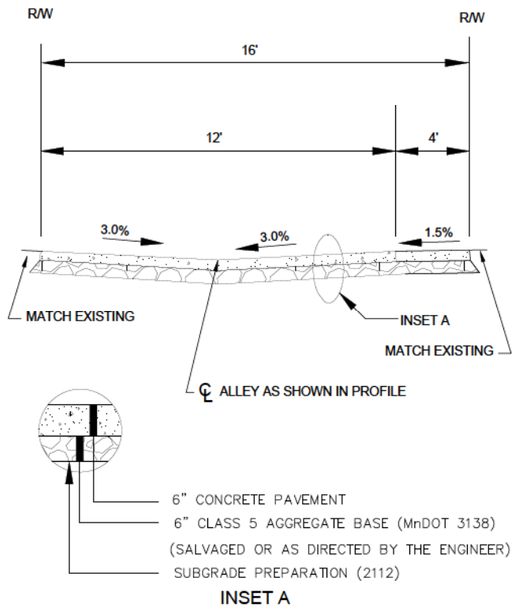
SHEET C1.6

DESIGN REVIEW SET
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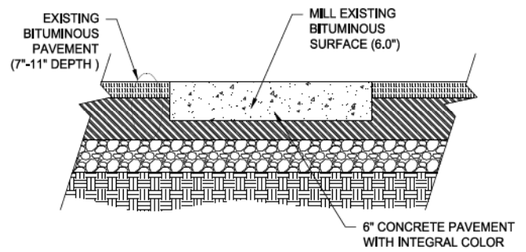


EXISTING MATERIAL IN PARKING LOT SHALL BE EXCAVATED TO A DEPTH OF 3 TO 5 FEET BELOW EXISTING GRADE TO REMOVE ORGANIC MATERIAL. FILL SHALL BE CLEAN MINERAL SOIL FREE OF DEBRIS, BOULDERS AND ORGANIC MATERIAL PER GEOTECHNICAL REPORT.

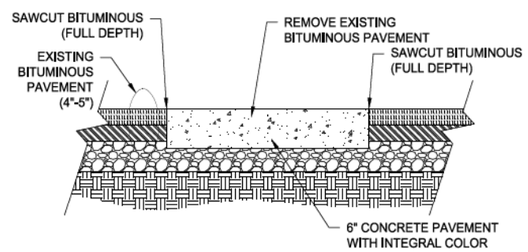
1 C1.7 PARKING LOT TYPICAL SECTION
NOT TO SCALE



2 C1.7 ALLEY TYPICAL SECTION
NOT TO SCALE

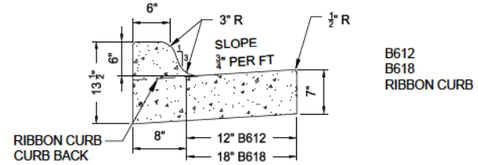


CROSSWALK SECTION FOR CR 101 AND 1ST STREET

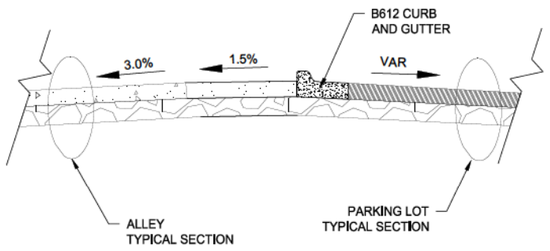


CROSSWALK SECTION FOR LEWIS STREET

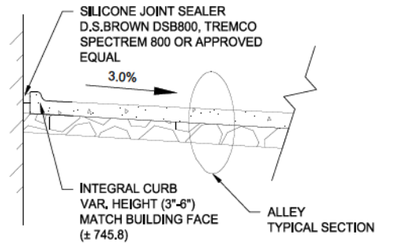
3 C1.7 CONCRETE CROSSWALK TYPICAL SECTIONS
NOT TO SCALE

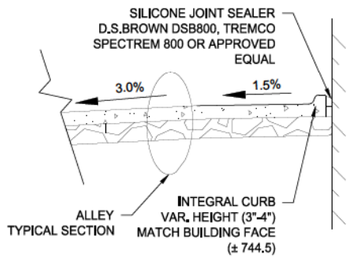


4 C1.7 CONCRETE CURB AND GUTTER DETAIL
NOT TO SCALE



5 C1.7 PARKING LOT/ALLEY CURB DETAIL
NOT TO SCALE





6 C1.7 BUILDING TIE IN CURB DETAILS
NOT TO SCALE

REVISION NO.
DATE

SCALE: AS NOTED
PLAN BY: DESIGN BY: EL
CHECKED BY: EL
PROJECT NO 1755-17
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EMILY A. LUETH, P.E.
DATE: MAY XX, 2017
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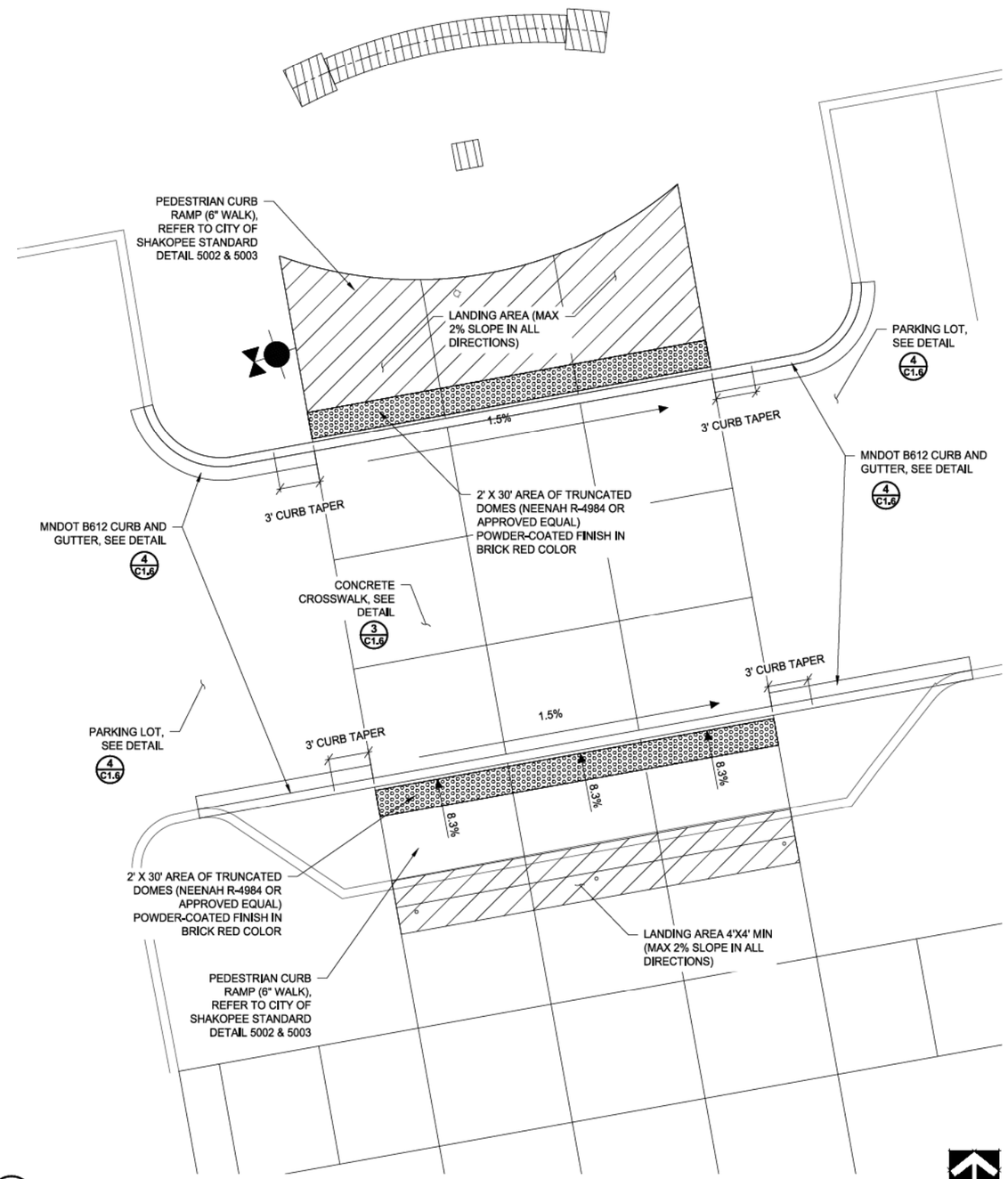
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CITY PROJECT NO.

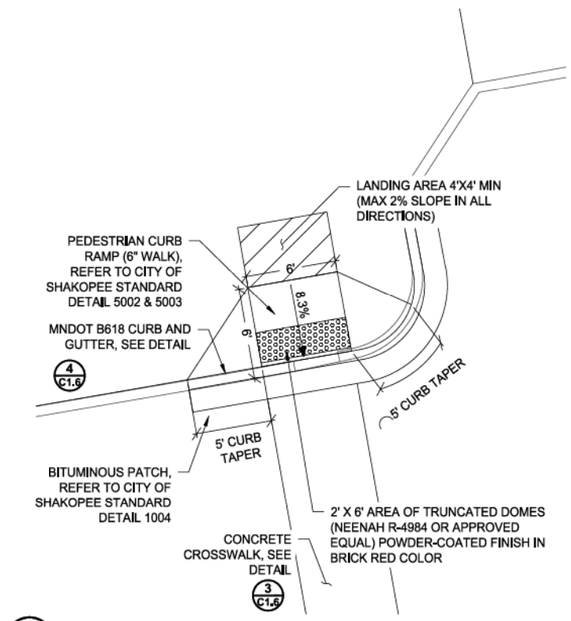
MISCELLANEOUS DETAILS

SHEET C1.7

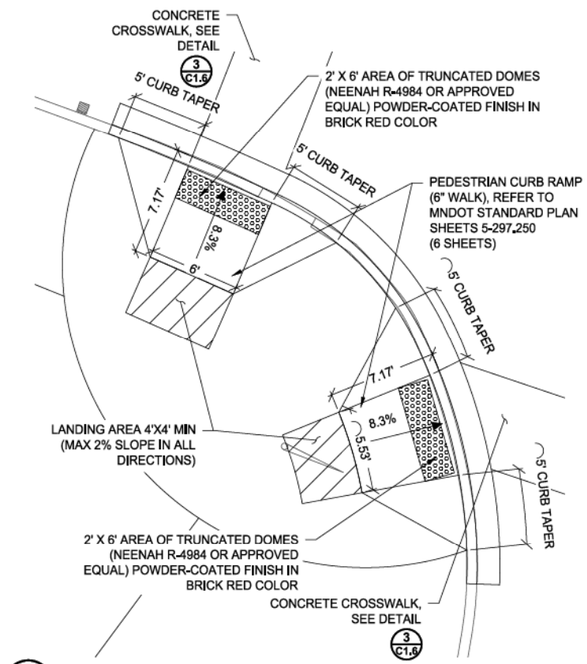
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NOT FOR CONSTRUCTION



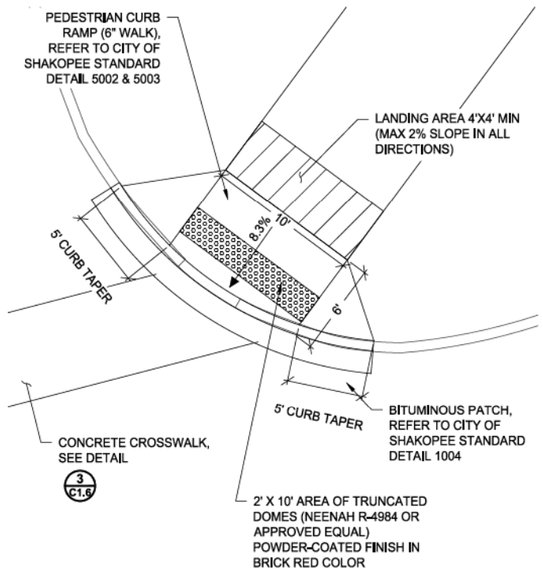
1 C1.8 **PEDESTRIAN RAMP 'A' DETAIL**
1"= 5'



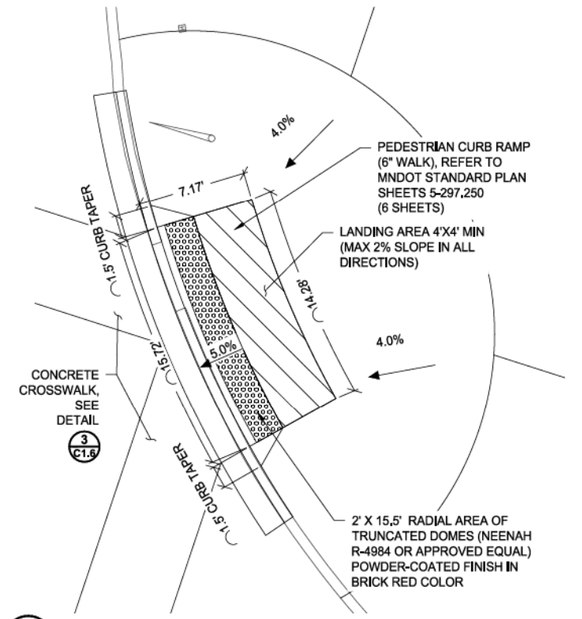
2 C1.8 **PEDESTRIAN RAMP 'B' DETAIL**
1"= 5'



3 C1.8 **PEDESTRIAN RAMP 'C' DETAIL**
1"= 5'



4 C1.8 **PEDESTRIAN RAMP 'D' DETAIL**
1"= 5'



5 C1.8 **PEDESTRIAN RAMP 'E' DETAIL**
1"= 5'

REVISION NO. / DATE

SCALE: AS NOTED
PLAN BY: DESIGN BY: EL
CHECKED BY: EL PROJECT NO 1755-17
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EMILY A. LUETH, P.E.
DATE: MAY XX, 2017 LIC. NO. 51773

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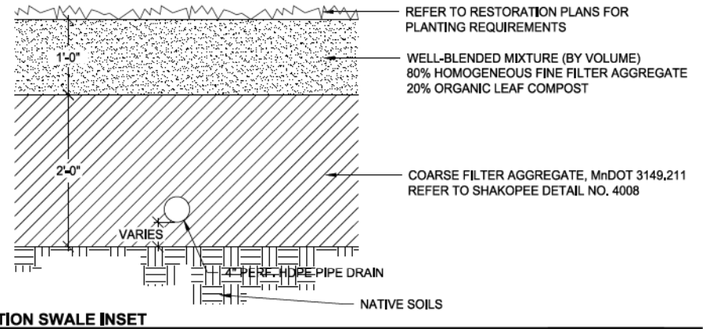
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CITY PROJECT NO.

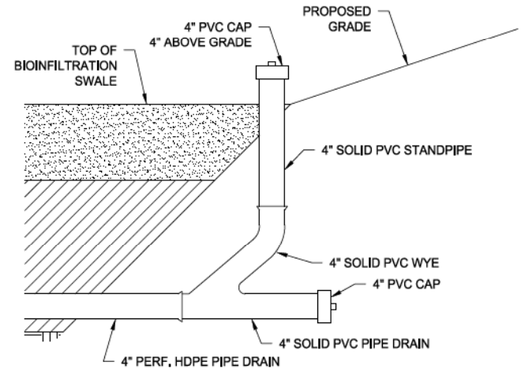
PEDESTRIAN RAMP DETAILS

SHEET C1.8

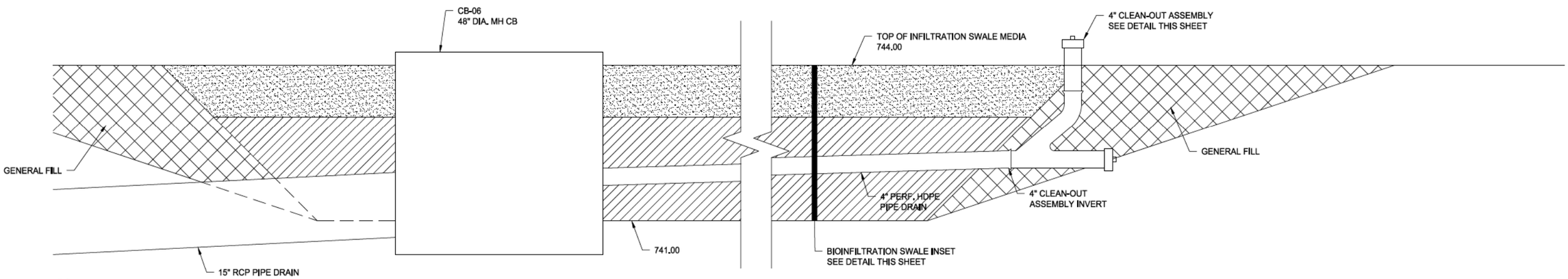
DESIGN REVIEW SET
NOT FOR CONSTRUCTION



1 C1.9 **BIOINFILTRATION SWALE INSET**
SCALE: NTS



2 C1.9 **4" CLEAN-OUT ASSEMBLY**
SCALE: NTS



3 C1.9 **BIOINFILTRATION SWALE - SECTION VIEW**
SCALE: NTS

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CITY PROJECT NO.
UTILITY DETAILS
SHEET C1.9

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GENERAL NOTES:

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVISES, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

THE TRAFFIC CONTROL PLAN SHALL BE APPROVED BY THE CITY PRIOR TO PLACEMENT . ANY ADDITIONAL DEVISES REQUIRED AS A RESULT OF CITY REQUEST SHALL BE CONSIDERED INCIDENTAL TO THE TRAFFIC CONTROL ITEM.

ALL CONFLICTING SIGNS SHALL BE COVERED USING APPROVED MEANS.

AREA 'A' WORK NOTES:

WORK ITEMS TO BE COMPLETED WITHIN THIS AREA / PHASE OF CONSTRUCTION TO INCLUDE, BUT NOT LIMITED TO:

- CLOSURE OF THE 1ST AVE/SOMMERVILLE STREET INTERSECTION
- REMOVAL OF BITUMINOUS AND CONCRETE WALK AND CURBS IN THE GATEWAY PLAZA AND 101/1ST AVE CROSSWALKS
- INSTALLATION OF NEW CONCRETE CURB AND GUTTER AND CONCRETE WALK PAVEMENTS AT GATEWAY PLAZA, INCLUDING SPECIALTY WALK
- INSTALLATION OF PEDESTRIAN RAMPS AND CROSSWALK, PHASED AS SHOWN ON C3.1 AND C3.2
- INSTALLATION OF MASONRY WALLS AND LIGHTING INSTALLATION OF TREE PLANTER CURB AND PLANTINGS

AREA 'B' WORK NOTES:

WORK ITEMS TO BE COMPLETED WITHIN THIS AREA / PHASE OF CONSTRUCTION TO INCLUDE, BUT NOT LIMITED TO:

- CLOSURE OF LEWIS STREET BETWEEN 1ST AVE AND 2ND AVE
- CLOSURE OF ALLEY BETWEEN SOMMERVILLE STREET AND LEWIS STREET
- CLOSURE OF THE PUBLIC PARKING LOT AT LEWIS STREET AND 2ND AVE
- REMOVAL OF BITUMINOUS AND CONCRETE PAVEMENTS AND CURBS, INCLUDING SAW CUTS
- EARTHWORK AND SUBGRADE PREPARATION
- INSTALL STORM WATER WORK, CONNECTIONS AND ELECTRICAL CONDUIT/SERVICE FOR PARKING LOT LIGHTING, KIOSK, AND OUTLETS
- INSTALLATION OF PEDESTRIAN RAMPS AND CROSSWALKS
- INSTALL CONCRETE WALKS / PAVEMENTS / CURB & GUTTER, AND PERMEABLE PAVERS IN WORK AREA
- INSTALLATION OF TREE PLANTER CURB AND PLANTINGS

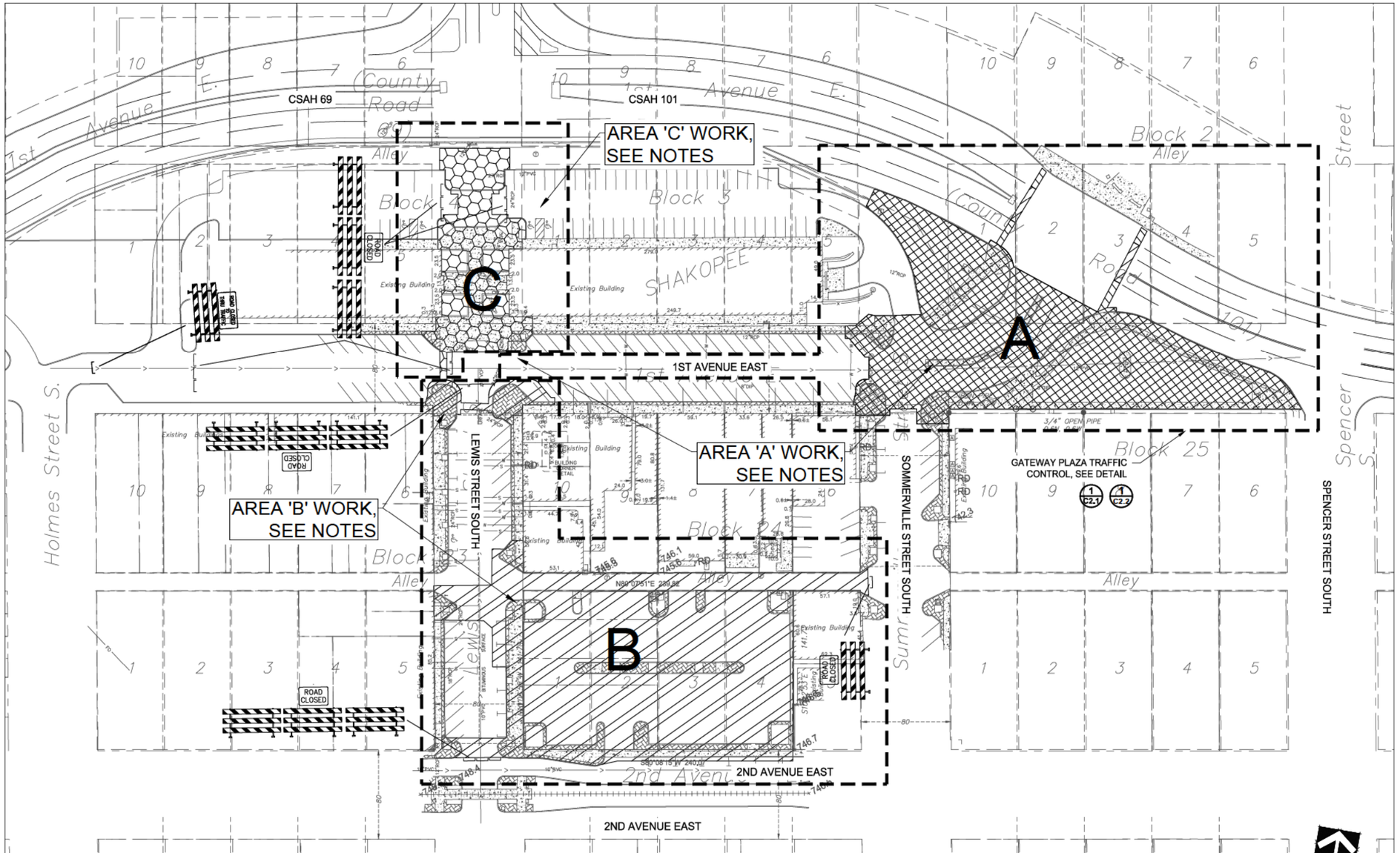
AREA 'C' WORK NOTES:

WORK ITEMS TO BE COMPLETED WITHIN THIS AREA / PHASE OF CONSTRUCTION TO INCLUDE, BUT NOT LIMITED TO:

- CLOSURE OF 1ST AVE FROM HOLMES STREET TO LEWIS STREET, MAINTAIN ACCESS TO PUBLIC PARKING LOT
- REMOVAL OF BITUMINOUS AND CONCRETE PAVEMENTS AND CURBS, INCLUDING SAW CUTS
- INSTALL STORM WATER WORK, CONNECTIONS AND ELECTRICAL CONDUIT/SERVICE FOR TREE PLANTER AND OUTLETS
- INSTALLATION OF PEDESTRIAN RAMPS AND CROSSWALKS
- INSTALL CONCRETE WALKS / PAVEMENTS / CURB & GUTTER, WALLS, STAIRS AND ART BASES IN WORK AREA
- INSTALLATION OF TREE PLANTER CURB AND PLANTINGS

LEGEND

- TRAFFIC CONTROL BARREL/CONE
- TRAFFIC CONTROL SIGN
- TYPE III BARRICADE



1 C3.0 **OVERALL TRAFFIC CONTROL PLAN**
SCALE: 1"= 50'

Scale: 1" = 50'

REVISION NO.
DATE

SCALE: AS NOTED
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CHECKED BY: EL
PROJECT NO. 1756-17
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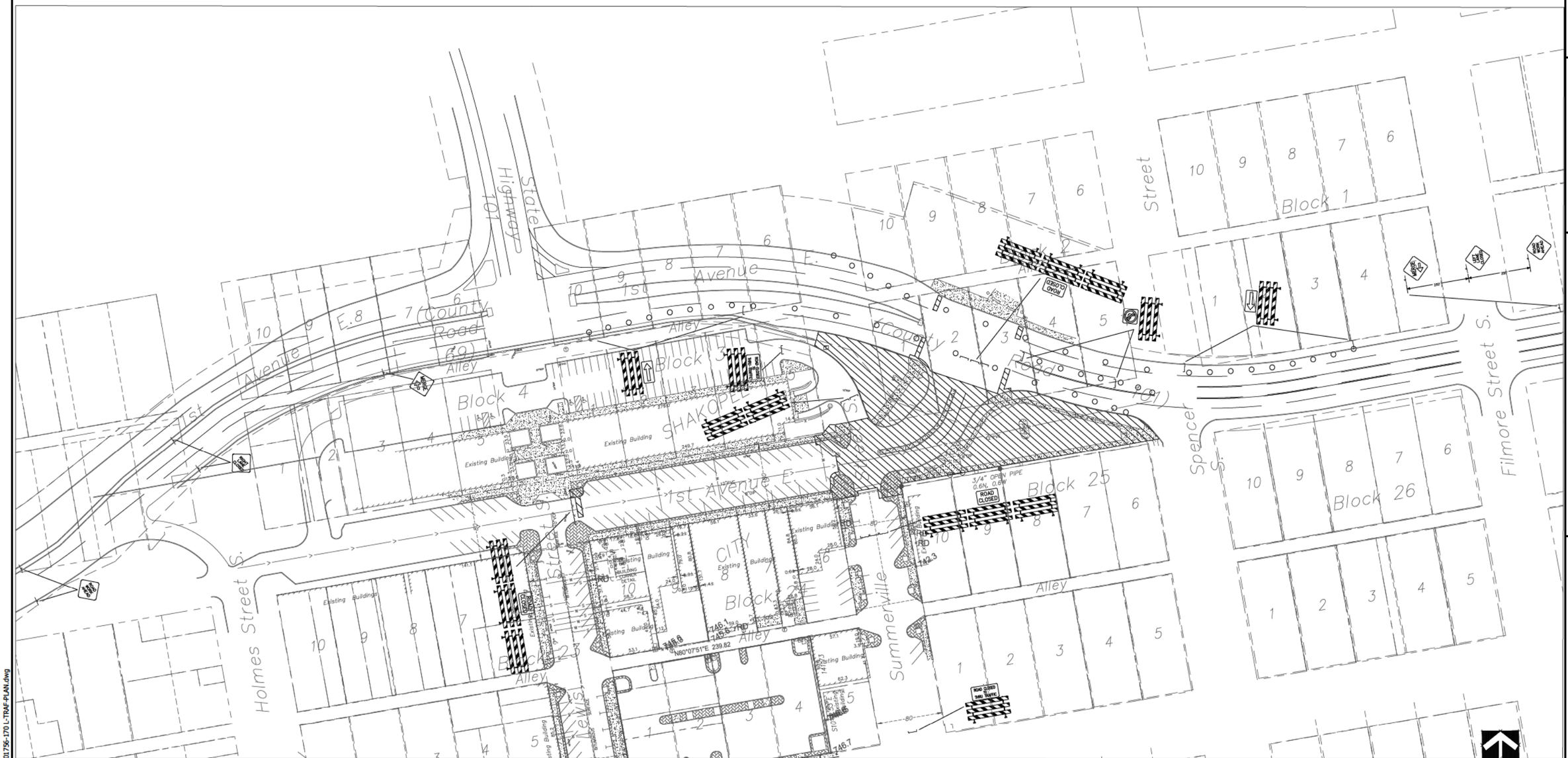
CITY PROJECT NO. | OVERALL TRAFFIC CONTROL PLAN | SHEET C2.0

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LEGEND

- TRAFFIC CONTROL BARREL/CONE
- TRAFFIC CONTROL SIGN
- TYPE III BARRICADE



1 / C3.1 **GATEWAY PLAZA TRAFFIC CONTROL PLAN**
SCALE: 1"= 60'

0 60' 120'
Scale: 1" = 60'

REVISION NO.
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CITY PROJECT NO.

TRAFFIC CONTROL PLAN AREA A
PHASE 1

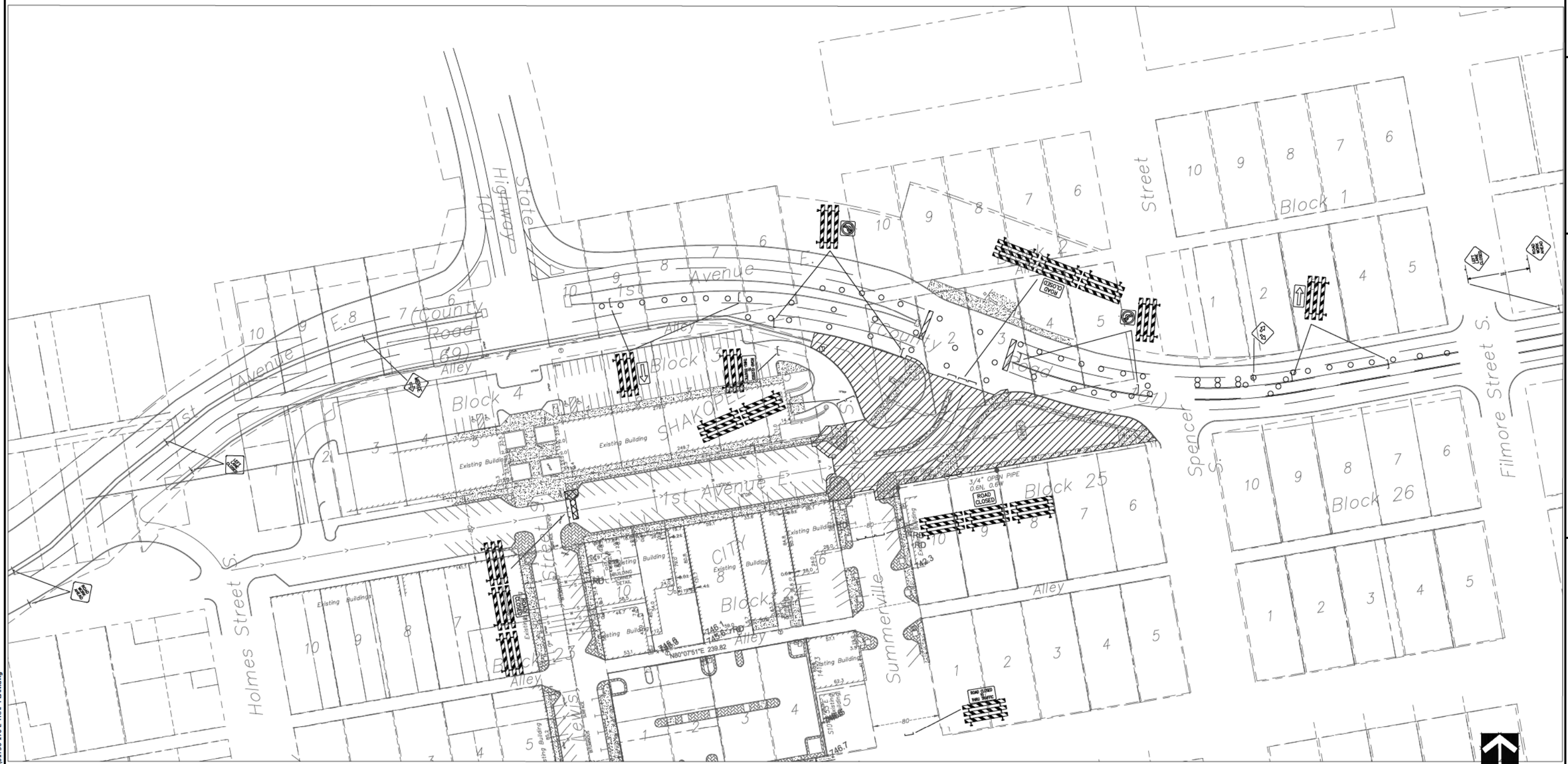
SHEET C2.1

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DESIGN REVIEW SET
NOT FOR CONSTRUCTION

LEGEND

- TRAFFIC CONTROL BARREL/CONE
- TRAFFIC CONTROL SIGN
- TYPE III BARRICADE



1 / C3.1 **GATEWAY PLAZA TRAFFIC CONTROL PLAN - PHASE 2**
SCALE: 1"= 60'

0 60' 120'
Scale: 1" = 60'

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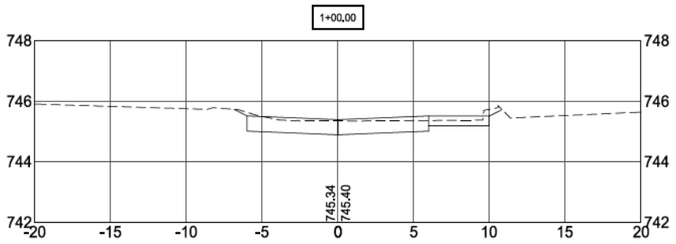
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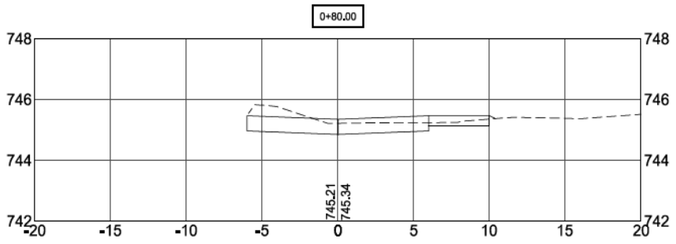
TRAFFIC CONTROL PLAN AREA A
PHASE 2

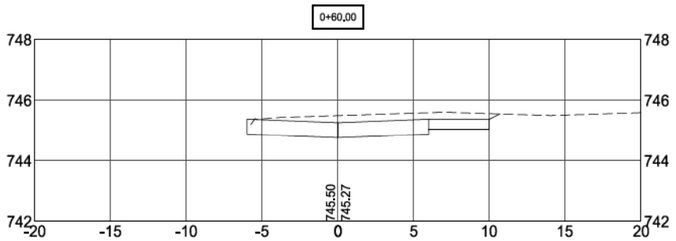
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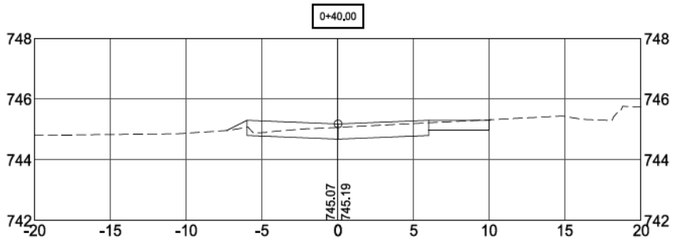
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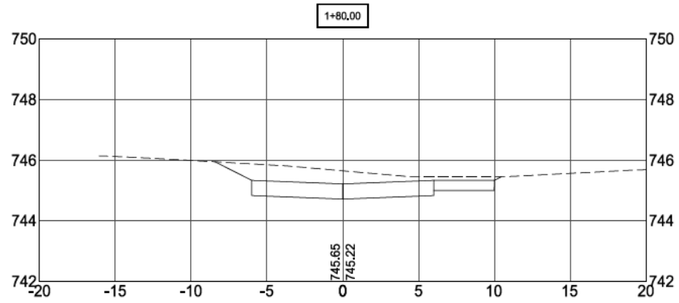
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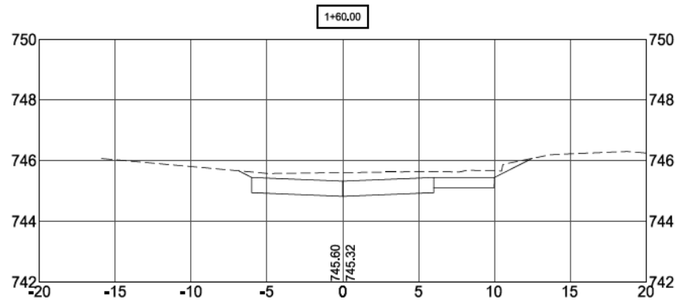


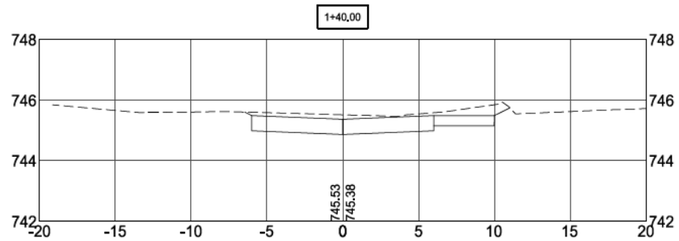


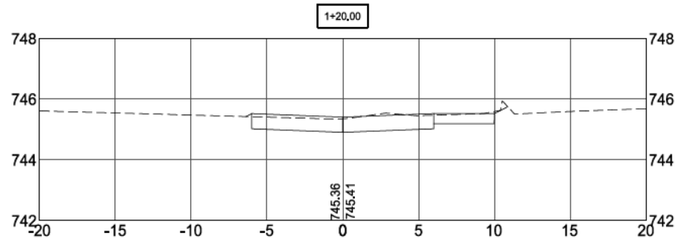












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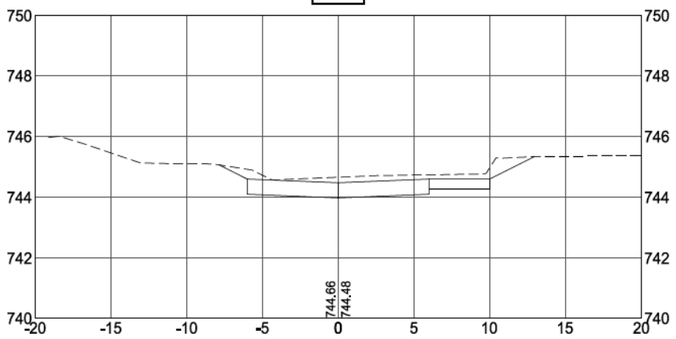
ALLEY
CROSS SECTIONS

SHEET XS1

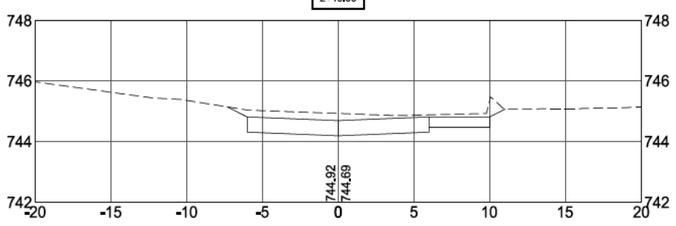
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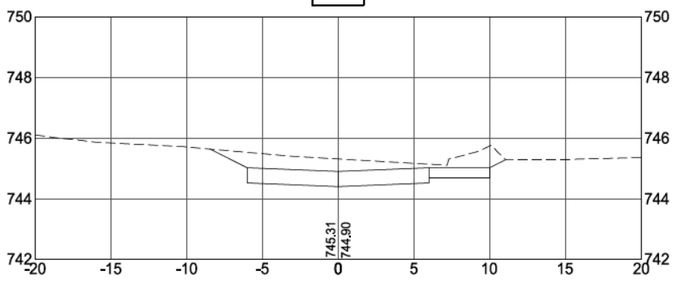
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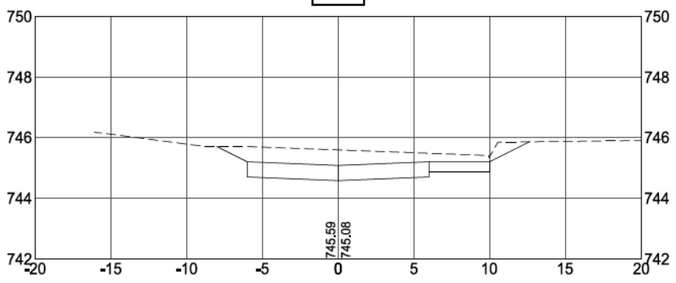
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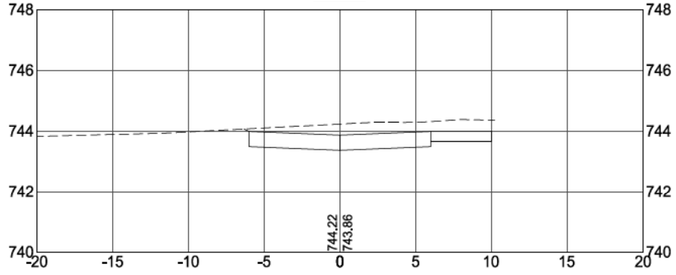
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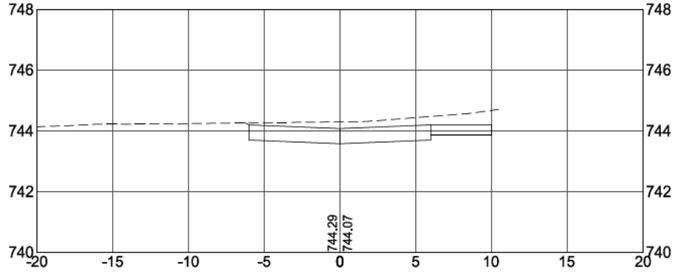
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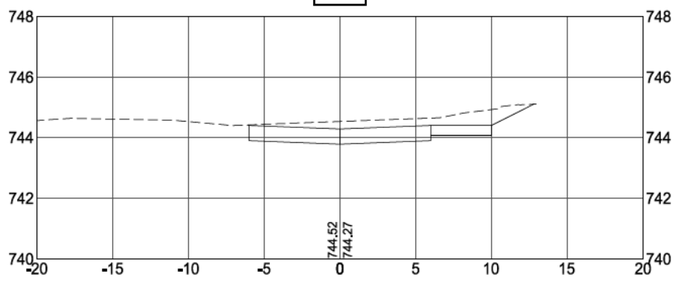
3+20,00



3+00,00



2+80,00



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CITY PROJECT NO.

ALLEY
CROSS SECTIONS

SHEET XS2

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SHAKOPEE, MINNESOTA

ELECTRICAL DRAWINGS

ELECTRICAL SYMBOL LEGEND

SYMBOL	LIGHTING SYSTEM	MTG. HT.
	FLUORESCENT SURFACE, PENDANT OR CABLE HUNG FIXTURE	VERIFY
	FLUORESCENT RECESSED FIXTURE (LAY-IN/GRID)	VERIFY
	FLUORESCENT WALL BRACKET FIXTURE	VERIFY
	SHADED INDICATES FIXTURE ON EMERGENCY POWER	VERIFY
	UNDERCOUNTER LIGHT	VERIFY
	SURFACE, PENDANT OR CABLE HUNG LIGHT FIXTURE	VERIFY
	RECESSED LIGHT FIXTURE	VERIFY
	WALL LIGHT FIXTURE	VERIFY
	RECESSED WALL WASH LIGHT FIXTURE	VERIFY
	LIGHTING TRACK W FIXTURE HEADS	VERIFY
	POLE MOUNTED	VERIFY
	EXIT LIGHT CEILING/PENDANT (SHADED QUADRANT INDICATES FACE(S). PROVIDE DIRECTIONAL ARROWS WHERE INDICATED.)	90"
	EXIT LIGHT WALL (SHADED QUADRANT INDICATES FACE(S). PROVIDE DIRECTIONAL ARROWS WHERE INDICATED.)	90"
	BATTERY LIGHTING UNIT (EMERGENCY)	90"

SYMBOL	POWER SYSTEMS	
	SINGLE RECEPTACLE	20"
	DUPLEX CONVENIENCE RECEPTACLE	20"
	SPLIT WIRED RECEPTACLE	20"
	DOUBLE DUPLEX RECEPTACLE	20"
	CLOCK RECEPTACLE	80"
	GROUND FAULT INTERRUPTING RECEPTACLE	20"
	WEATHER PROOF GROUND FAULT INTERRUPTING RECEPTACLE	20"
	EMERGENCY DUPLEX RECEPTACLE	20"
	SPECIAL PURPOSE RECEPT. AS NOTED ON DWGS.	20"
	RANGE RECEPTACLE	20"
	BRACKET INDICATES ALL DEVICES ON COMMON PLATE. MINIMUM OF ONE GANG PER DEVICE.	42"
	TELE/POWER POLE	VERIFY
	PULL BOX	VERIFY
	FLOOR OUTLET W/ DEVICE AS INDICATED	VERIFY
	CEILING MOUNTED RECEPTACLE	VERIFY
	CEILING JUNCTION BOX	
	WALL JUNCTION BOX	20" OR AS NOTED

SYMBOL	SECURITY SYSTEM	
	KEYPAD	42"
	CARD READER	42"
	FIXED CCTV CAMERA (LETTERS REFER TO SCHEDULE)	VERIFY
	PAN, TILT, ZOOM CCTV CAMERA (LETTERS REFER TO SCHEDULE)	VERIFY
	KEYED SWITCH	42"
	EXIT PUSHBUTTON	42"
	EXIT SENSOR	VERIFY
	ELECTRIC STRIKE	VERIFY
	MAGNETIC LOCK	VERIFY
	ELECTRIC LOCK	VERIFY
	POWER TRANSFORMER	VERIFY
	DOOR CONTACT	VERIFY
	OVERHEAD DOOR CONTACT	VERIFY
	MONITOR STRIKE	VERIFY
	MOTION DETECTOR	VERIFY
	GLASS BREAK DETECTOR	VERIFY
	DURESS ALARM	VERIFY
	DOOR POSITION SWITCH	VERIFY
	BOLT POSITION SWITCH	VERIFY
	MOTORIZED MORTISE LOCK	VERIFY
	DETENTION GRADE PUSH-BUTTON INTERCOM	VERIFY
	VIDEO VISITATION STATION - (SINGLE HAND SET)	VERIFY
	VIDEO VISITATION STATION - (DUAL HAND SET)	VERIFY

SYMBOL	COMMUNICATIONS SYSTEMS	MTG. HT.
	CLOCK	80"
	CEILING SPEAKER	CEILING
	WALL SPEAKER	80"
	SPEAKER HORN	80"
	SOUND VOLUME CONTROL	48"
	MICROPHONE JACK	20"
	BELL	VERIFY
	TELEVISION RECEPTACLE	VERIFY
	INTERCOMMUNICATION STATION	42"
	TELEPHONE RECEPTACLE	20"
	WALL TELEPHONE RECEPTACLE	42"
	COMBINATION TELEPHONE/DATA RECEPTACLE	20"
	SINGLE DATA RECEPTACLE	20"
	DUAL DATA RECEPTACLE	20"
	RACEWAY SYMBOL ASSEMBLY NUMBER DENOTES TYPE - SEE RACEWAY DETAILS	VERIFY
	WIRELESS ANTENNA	CEILING
	DATA CABINET	VERIFY

SYMBOL	FIRE ALARM SYSTEMS	
	FIRE ALARM MANUAL STATION	42"
	FIRE ALARM AUDIBLE SIGNAL	80"
	FIRE ALARM AUDIBLE/VISUAL SIGNAL (NUMBER INDICATES STROBE CANDELA)	80"
	FIRE ALARM-DOOR HOLDER	VERIFY
	FIRE ALARM-MINI HORN	80"
	FIRE ALARM VISUAL SIGNAL (NUMBER INDICATES STROBE CANDELA)	80"
	FIRE ALARM SPRINKLER BELL/BEACON	120" ABOVE WYE CONNECTION
	DUCT SMOKE DETECTOR	VERIFY
	FIRE ALARM - TAMPER SWITCH	VERIFY
	FIRE ALARM FLOW SWITCH	VERIFY
	SMOKE DETECTOR - P=PHOTOELECTRIC, I=IONIZATION	VERIFY
	HEAT DETECTOR	VERIFY
	BEAM DETECTOR TRANSMITTER	VERIFY
	BEAM DETECTOR RECEIVER	VERIFY
	FIRE/SMOKE DAMPER	VERIFY
	FIRE ALARM - CONTROL MODULE	VERIFY
	FIRE ALARM - MONITOR MODULE	VERIFY

SYMBOL	SWITCHING DEVICES	
	SINGLE POLE SWITCH (SUBSCRIPT INDICATES SWITCH LEG)	42"
	DOUBLE POLE SWITCH	42"
	3-WAY SWITCH	42"
	4-WAY SWITCH	42"
	KEY SWITCH	42"
	SWITCH AND PILOT	42"
	MOMENTARY CONTACT SWITCH	42"
	TIME SWITCH	42"
	PHOTO SENSOR	42"
	DIMMER OR DIMMER CONTROL (FL. INDICATES FLUORESCENT)	42"
	PUSH BUTTON	42"
	BUZZER	42"
	MOTION SENSOR	42"
	DAYLIGHT SENSOR	

SYMBOL	EQUIPMENT SYSTEMS	MTG. HT.
	TERMINAL CABINETS	VERIFY
	ANNUNCIATORS	VERIFY
FACP	FIRE ALARM CONTROL PANEL	VERIFY
FAAP	FIRE ALARM ANNUNCIATOR	VERIFY
	BRANCH CIRCUIT PANELS (250V OR LESS)	VERIFY
	BRANCH CIRCUIT PANELS (277/480V)	VERIFY
	DISTRIBUTION PANEL OR SWITCHBOARD	VERIFY
	SWITCHBOARD MAIN	VERIFY
	DRY TYPE TRANSFORMER - SIZE AS NOTED ON DRAWING	VERIFY
	DISCONNECT SWITCH	VERIFY
MS	MAGNETIC MOTOR STARTER	VERIFY
MDS	DISCONNECT SWITCH & MAGNETIC MOTOR STARTER IN SAME LOCATION	VERIFY
MMS	MANUAL MOTOR STARTING SWITCH (W/OVERLOADS)	VERIFY
MR	MOTOR RATED SWITCH	VERIFY
MCS	MANUAL MOTOR CONTROL SWITCH	VERIFY
T	CONTROL TRANSFORMER	VERIFY
R	RELAY	VERIFY
C	CONTACTOR	VERIFY
T	THERMOSTAT	VERIFY
	AUXILIARY EQUIPMENT (AS NOTED)	VERIFY
	JUNCTION BOX	
MH	MANHOLE	VERIFY
HH	HAND HOLE	VERIFY
	GROUNDING SYSTEM BUS BAR	VERIFY

SYMBOL	WIRING SYSTEMS
#10	INDICATES WIRE SIZE. IF NOT NOTED #12 AWG CONDUCTORS SHALL BE USED
	HOME RUN
L1/23	PANEL NUMBER
3,5	CIRCUIT NUMBER
	NOTE: ANY CIRCUITS WITHOUT FURTHER DESIGNATION IS A TWO WIRE CIRCUIT. A GREATER NUMBER OF WIRES ARE INDICATED BY CROSS MARKS
LP-1/3	PANELBOARD/CIRCUIT NUMBER
FIXTURE TYPE	RELAY NUMBER (IF APPLICABLE)
HT1/2	SWITCH DESIGNATION
PANEL NAME CIRCUIT NUMBER	
	GROUNDING CONDUCTOR
	HOT CONDUCTOR
	NEUTRAL CONDUCTOR
	CONDUIT CAPPED OR BUSHED
	CONDUIT CONTINUATION
	BRANCH CIRCUIT (UNDER FLOOR OR UNDER GROUND)
	GROUND

SYMBOL	MISC. DEVICES
	CABLE TRAY - SIZE AS NOTED
	WIREMOLD
	PLUG STRIP - OUTLET SPACING AS SHOWN OR SPECIFIED
2	INDICATES NOTE ON PLAN
EMD 1	EQUIPMENT OR APPLIANCE (NO. REFERS TO SCHEDULE)
4	FEEDER NUMBER
MC	MECHANICAL EQUIPMENT CROSS REFERENCE (NO. REFERS TO SCHEDULE).
	EQUIPMENT AS NOTED ON DRAWINGS

ELECTRICAL ABBREVIATIONS

A,C	ALTERNATING CURRENT
AC	ABOVE COUNTER
AFF	ABOVE FINISH FLOOR
AMP	AMPERE
ARCH	ARCHITECTURAL
ASC	ADJUSTABLE SPEED CONTROLLER
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BC	BELOW COUNTER
BRKR	BREAKER
BSMT	BASEMENT
C	CONDUIT, CABLE
CAB	CABINTET
CAP	CAPACITOR
CB	CIRCUIT BREAKER
CCT	CIRCUIT
CCTV	CLOSED CIRCUIT TELEVISION
CLG	CEILING
CON	CONSOLE TELEPHONE
CP	CHILDPROOF
CPT	CONTROL POWER TRASFORMER
CR & SA	COMID RESEARCH & SERVICE
CT	CURRENT TRANSFORMER
CU	COPPER
D	DESK MOUNDED
DISC	DISCONNECT
DISTR	DISTRIBUTION
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DWG	DRAWING
EA	EACH
ELEC	ELECTRIC/ELECTRICAL
EMERG	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EP	ELECTRICAL PNEUMATIC VALVE
EXIST	EXISTING
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FUSED (D)
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FC	FUSED CONTACT
FACP	FIRE ALARM CONTROL PANEL
FIXT	FIXTURE
FL	FLUSH
FLOUR	FLUORESCENT
FS	FUSED SWITCH
F-STAT	FREEZE STAT
GEN	GENERATOR
GB	GROUND BUS
GFI	GROUND FAULT INTERRUPTING
GND	GROUND
GYP	GYPSUM BOARD
HDCP	HANDICAPPED
HTR	HEATER
H-O-A	HAND-OFF-AUTOMATIC
HH	HAND HOLE
HP	HORSEPOWER
HT	HEIGHT
HZ	HERTZ
IMC	INTERMEDIATE METALLIC CONDUIT
INCAND	INCANDESCENT
JB	JUNCTION BOX
JCT	JUNCTION
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
LA	LIGHTING ARRESTOR
LTG	LIGHTING
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE
MH	MAN HOLE
ML	MULTILINE
MLO	MAIN LUGS ONLY
MMS	MANUAL MOTOR SWITCH (OVERLOADS)
MS	MOTOR SWITCH
MS & P	MOTOR SWITCH & PILOT
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MTRS	MOTORS
NC	NORMALLY CLOSED
NEU	NEUTRAL
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
P	POLE
PA	PUBLIC ADDRESS SYSTEM
PE	PNEUMATIC ELECTRIC SWITCH
PF	POWER FACTOR
PH(~)	PHASE
PNL	PANEL
PP	POWER POLE
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
REC	RECESSED
RM	ROOM
RL	RELOCATE
S	SURGE SUPPRESSION RECEPTACLE
SHT	SHEET
SPEC	SPECIFICATION
SPKR	SPEAKER
SPST	SINGLE POLE, SINGLE THROW
SW	SWITCH
SWBD	SWITCHBOARD
SV	SOLENOID VALVE
SYS	SYSTEM
TEL	TELEPHONE
TERM	TERMINAL
TFMR(T)	TRANSFORMER
T-STAT	THERMOSTAT
TV	TELEVISION
TYP	TYPICAL
W	WATT
W	WITH
W/O	WITHOUT
WP	WEATHERPROOF
UEP	UNDERGROUND ELECTRIC PRIMARY
V	VOLT
VA	VOLT AMPERE
VM	VOLTMETER
VS	VOLTMETER SWITCH
X	EXISTING
XC	EXISTING DEVICE TO BE REMOVED
XFMR	TRANSFORMER
XR	EXISTING TO BE RELOCATED

GENERAL NOTES

1. BRANCH CIRCUIT DESIGNATIONS AS INDICATED ON THESE DRAWINGS ARE FOR CLARIFICATION ONLY AND DO NOT REPRESENT EXACT CIRCUIT DESIGNATIONS IN THE PANELS SERVING THE REMODELED AREA. EXACT LOCATIONS AND/OR DESIGNATIONS SHALL BE ADJUSTED AS REQUIRED TO PROVIDE BALANCED LOADING OF ALL THE PHASES IN THE PANEL.
2. REFER TO ARCHITECTURAL, CIVIL AND LANDSCAPE PLANS FOR COORDINATION OF EXACT LOCATION OF LIGHTING FIXTURES, DEVICES, AND SERVICE ENCLOSURES.
3. ALL EXISTING JUNCTION BOXES, RACEWAYS, CONDUCTORS, ETC. THAT ARE ABANDONED SHALL BE REMOVED COMPLETELY TO A PREVIOUS POINT OF USE.
4. PROVIDE ALL ELECTRICAL DEMOLITION WORK AS REQUIRED TO FACILITATE THE NEW WORK. DEMOLITION DRAWINGS INDICATE DESIGN INTENT AND MAY NOT BE INCLUSIVE OF ALL MISCELLANEOUS AND INCIDENTAL ITEMS. NO ALLOWANCE WILL BE MADE FOR THE CONTRACTORS FAILURE TO FAMILIARIZE THEMSELVES WITH THE EXISTING BUILDING CONDITIONS AND THE AMOUNT OF EFFORT TO COMPLETE THE NEW ELECTRICAL WORK AS SHOWN ON THE DRAWINGS.
5. PROVIDE ALL ELECTRICAL DEMOLITION WORK IN AREAS WHERE NOTED. PROVIDE DISCONNECTION AND REMOVAL OF ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, DEVICES, PANELBOARDS, CONDUIT AND CABLE IN THESE AREAS. TURN OVER EQUIPMENT TO OWNER THAT WHICH THEY DESIRE TO RETAIN. ALL OTHER EQUIPMENT SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF LAMPS AND BALLASTS AND MUST COMPLY WITH ALL STATE AND FEDERAL REGULATIONS GOVERNING THEIR DISPOSAL. INFORMATION ABOUT PROPER LAMP AND BALLAST DISPOSAL IS AVAILABLE FROM THE "MINNESOTA POLLUTION CONTROL AGENCY" AT 1-800-657-3724.
6. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.

INDEX TO ELECTRICAL SHEETS

E0.1 TITLE SHEET - ELECTRICAL
E1.1 LEMS PARKING LOT DEMO PLAN
E1.2 RIVER CITY PLAZA DEMO PLAN
E1.3 GATEWAY PLAZA DEMO PLAN
E2.1 LEMS PARKING LOT SITE PLAN
E2.2 RIVER CITY PLAZA SITE PLAN
E2.3 GATEWAY PLAZA SITE PLAN
E3.1 ELECTRICAL SCHEDULES

PRELIMINARY
NOT FOR CONSTRUCTION
REVIEW (05/08/17)

REVISION NO	DATE	EXPLANATION

SCALE: AS NOTED
DESIGN BY: JSH, PC
PLAN BY: PC
PROJECT NO: 1795-17
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DATE: 05/XX/2015
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Jay S. Hruby
DATE 02/08/2015 LIC. NO. 40290

DOWNTOWN IMPROVEMENTS
STREET & UTILITY CONSTRUCTION

ELECTRICAL TITLE SHEET

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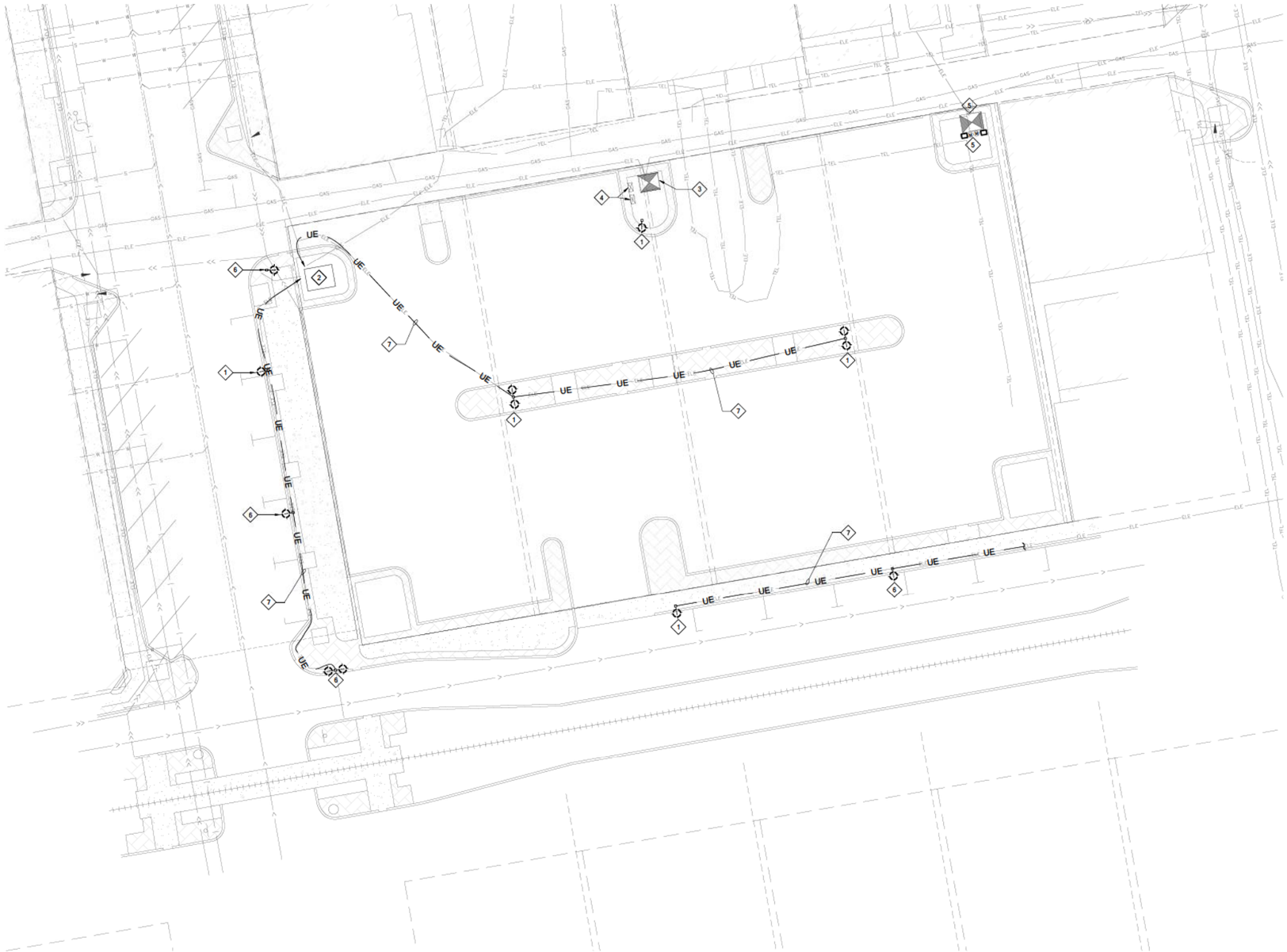
SHEET
E0.1

EDI #17-024

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PLAN NOTES:

1. EXISTING SITE LIGHTING ASSEMBLY (SHOEBOX) TO BE DISCONNECTED AND REMOVED. DISCONNECT AND REMOVE EXISTING WIRING TO POWER SOURCE.
2. EXISTING ELECTRICAL POWER SERVICE ENCLOSURE TO BE REMOVED.
3. EXISTING ELECTRICAL TRANSFORMER TO REMAIN.
4. EXISTING TELECOMMUNICATIONS PEDESTAL TO REMAIN.
5. EXISTING ELECTRICAL TRANSFORMER METER AND DISCONNECT SWITCHES SERVING BUSINESS TO EAST OF PARKING LOT TO REMAIN.
6. EXISTING PEDESTRIAN SCALE "ACORN STYLE" LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED.
7. DISCONNECT AND REMOVE EXISTING ELECTRICAL CIRCUITS (CONDUCTORS AND CONDUIT).



1 LEWIS PARKING LOT DEMOLITION PLAN
SCALE: 1" = 20'-0"

GRAPHIC SCALE 0 20'

NORTH

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Jay S. Hruby
DATE: 02/06/2015 LIC. NO. 40990

DOWNTOWN IMPROVEMENTS
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LEWIS PARKING LOT DEMO PLAN

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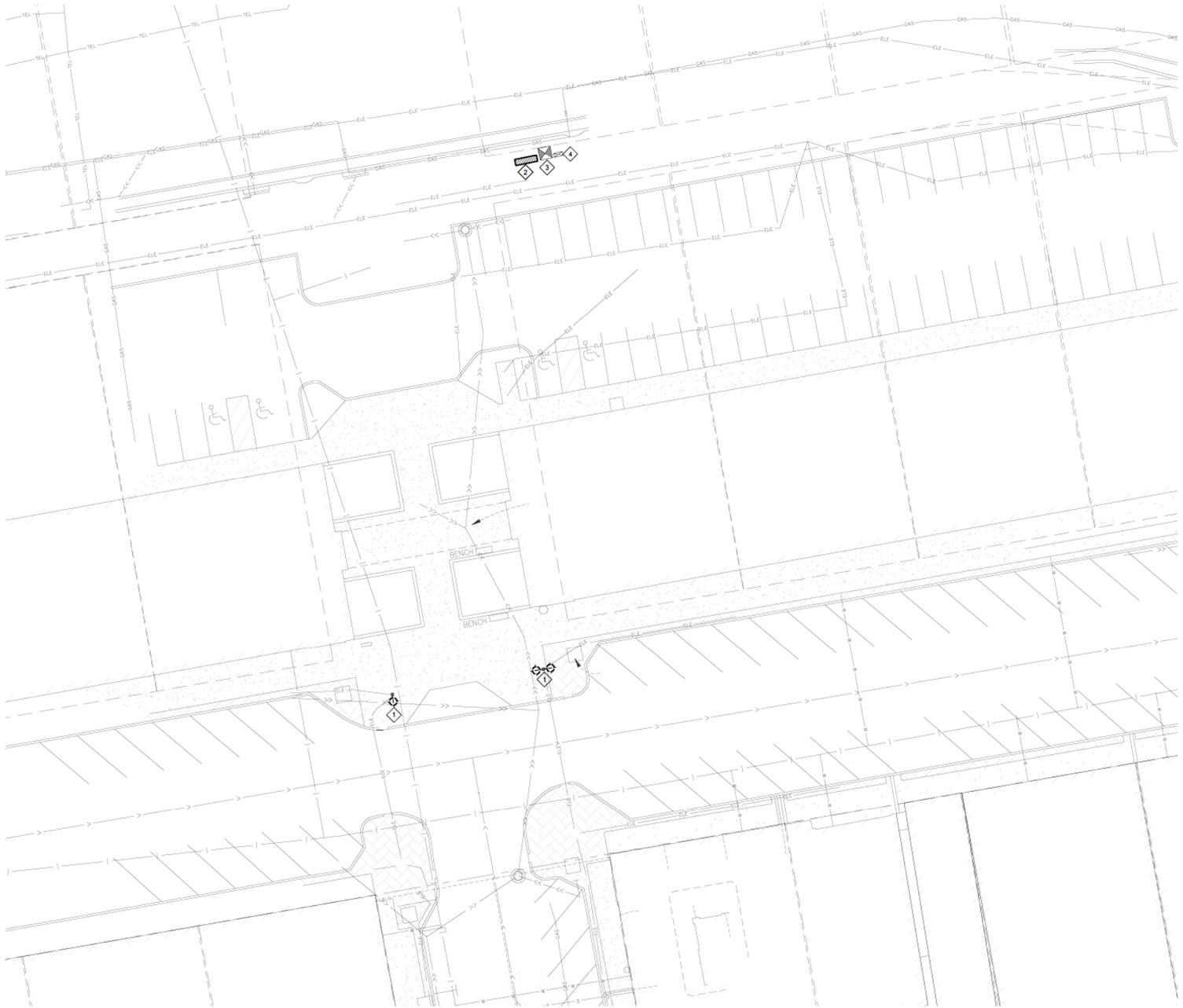
SHEET
E1.1

EDI #17-024

DESIGN REVIEW SET
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PLAN NOTES:

1. EXISTING SITE LIGHTING ASSEMBLY TO REMAIN REPLACED WITH NEW.
2. EXISTING ELECTRICAL POWER SERVICE ENCLOSURE TO REMAIN.
3. EXISTING ELECTRICAL TRANSFORMER TO REMAIN.
4. EXISTING TELECOMMUNICATIONS PEDESTAL TO REMAIN.



1 RIVER CITY PLAZA DEMOLITION PLAN
SCALE: 1" = 20'-0"

GRAPHIC SCALE 0 20'

NORTH

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REVIEW (05/08/17)

NO	DATE	REVISION/EXPLANATION

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Jay S. Hruby 40990
DATE: 02/08/2015 LIC. NO.

DOWNTOWN IMPROVEMENTS
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SHEET
E1.2

EDI #17-024

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PLAN NOTES:

1. EXISTING STEET LIGHT TO REMAIN.
2. EXISTING IN-GRADE MONUMENT SIGNAGE LIGHTING TO BE DICSONNECTED AND REMOVED.
3. REMOVE EXISTING ELECTRICAL BRANCH CIRCUIT FEEDING LIGHTING.
4. EXISTING TELECOMMUNICATIONS PEDESTAL TO REMAIN.
5. EXISTING MNDOT TRAFFIC CONTROL CABINET TO REMAIN.



1 GATEWAY PLAZA DEMOLITION PLAN
SCALE: 1" = 20'-0"

GRAPHIC SCALE 0 20'

NORTH

PRELIMINARY
NOT FOR CONSTRUCTION
REVIEW (05/08/17)

REVISION NO	DATE	EXPLANATION

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Jay S. Hruby
DATE: 02/05/2015 LIC NO. 40990

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SHEET
E1.3

EDI #17-024

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PLAN NOTES:

1. NEW ELECTRICAL SERVICE ENCLOSURE FOR POWER AND CONTROL OF SITE LIGHTING.
2. NEW EXTERIOR SITE LIGHTING ASSEMBLY THAT IS ENERGIZED AND CONTROLLED VIA EXISTING ELECTRICAL SERVICE ENCLOSURE.
3. (1) 1" CONDUIT WITH (2) #8 PLUS #8 GROUND.
4. PROVIDE 120-VOLT, 20-AMP RECEPTACLE MOUNTED IN PLANTER FOR SEASONAL LIGHTING. SEE DETAILS FOR ADDITIONAL INFORMATION.
5. PROVIDE A 120-VOLT, GFCI DUPLEX RECEPTACLE IN THE LIGHTING POLE.
6. SECONDARY ELECTRICAL CONNECTION TO SERVICE ENCLOSURE.
7. EXISTING UTILITY TRANS FORMER TO REMAIN.
8. PROVIDE LED STRIP LIGHT MOUNTED TO UNDER SIDE OF ROOF STRUCTURE. SEE DETAILS FOR ADDITIONAL INFORMATION.
9. (1) 1-1/4" CONDUIT WITH (4) #8 PLUS (2) #8 GROUND.
10. PROVIDE FLUSH MOUNTED GROUND BOX WITH FOURPLEX RECEPTACLES WITH GFCI PROTECTED BREAKER FOR SEASONAL/HOLIDAY LIGHTING ON TREE. GROUND BOX SHALL BE WIREMOLD #XB814C520 OR PRIOR APPROVED ALTERNATE. COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT.



1 LEWIS PARKING LOT SITE PLAN
SCALE: 1" = 20'-0"

PRELIMINARY
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REVIEW (05/08/17)

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Jay S. Hruby
DATE: 02/06/2015 LIC NO. 40930

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LEWIS PARKING LOT SITE PLAN

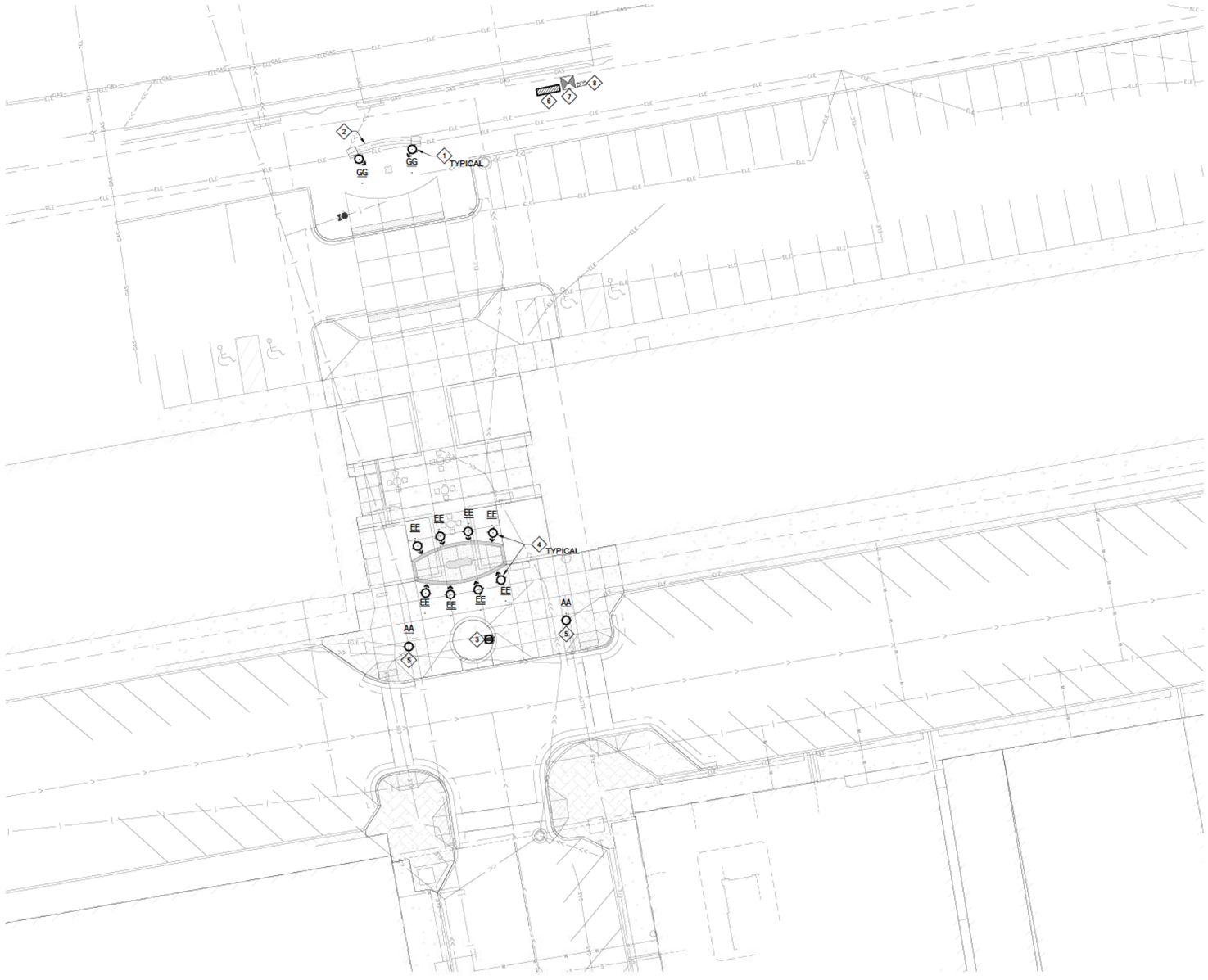
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SHEET
E2.1

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PLAN NOTES:

1. RECESSED UP-LIGHTING, FLUSH MOUNTED IN THE BACKSIDE OF THE MASONRY WALL TO ILLUMINATE FUTURE STATUE.
2. "SHAKOPEE" SIGNAGE MOUNTED TO TOP OF MASONRY WALL WITH INTEGRAL LIGHTING FOR EACH LETTER. SEE ARCHITECTURAL DETAILS FOR CONDUIT ROUTING.
3. PROVIDE FLUSH MOUNTED GROUND BOX WITH FOURPLEX RECEPTACLES WITH GFCI PROTECTED BREAKER FOR SEASONAL/HOLIDAY LIGHTING ON TREE. GROUND BOX SHALL BE WIREMOLD #XB814C520 OR PRIOR APPROVED ALTERNATE. COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT.
4. EXTERIOR RECESSED IN-GRADE FLUSH MOUNTED LED LIGHT TO ILLUMINATE FUTURE STATUE.
5. NEW LIGHT FIXTURE AT THIS LOCATION. PROVIDE CUSTOM MOUNTING PLATE FOR FIXTURE MOUNTING.
6. EXISTING ELECTRICAL SERVICE ENCLOSURE TO REMAIN.
7. EXISTING TRANSFORMER TO REMAIN.
8. EXISTING TELECOMMUNICATIONS PEDESTAL TO REMAIN.

1 RIVER CITY PLAZA SITE PLAN
SCALE: 1" = 20'-0"

GRAPHIC SCALE 0 20'

NORTH

PRELIMINARY
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DATE: 02/06/2015 LIC NO. 40990

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SHEET
E2.2

EDI #17-024

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PLAN NOTES:

1. PROVIDE A 120-VOLT, 20-AMP DEDICATED ELECTRICAL CIRCUIT TO NEW CUSTOM ENTRANCE MONUMENT WITH READER BOARD.
2. PROVIDE A 1-INCH CONDUIT (EMPTY) FOR FUTURE FIBER OPTIC CABLE.
3. NEW LIGHTING ASSEMBLY ENERGIZED BY EXISTING POWER SOURCE.
4. PROVIDE 120-VOLT CONNECTION TO LIGHTING.
5. PROVIDE A 120-VOLT DEDICATED CONNECTION TO ENTRANCE MOUNTED "DOWN TOWN" SIGNAGE MOUNTED ON TOP OF WALL SEE ARCHITECTURAL FOR DETAILS.
6. PROVIDE 120-VOLT POWER CONNECTION TO BOLLARD.
7. PROVIDE CUSTOM RETROFIT MOUNTING PLATE.
8. HAND HOLE FOR LED TRANSFORMERS.
9. TYPE FF LIGHT FIXTURES MOUNTED UNDER LIP OF MASONRY CAP. SEE ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION.
10. PROVIDE 120-VOLT, 20-AMP RECEPTACLE MOUNTED IN PLANTER FOR SEASONAL LIGHTING. SEE DETAILS FOR ADDITIONAL INFORMATION.

1 GATEWAY PLAZA SITE PLAN
SCALE: 1" = 20'-0"

GRAPHIC SCALE 0 20'

NORTH

PRELIMINARY
NOT FOR CONSTRUCTION
REVIEW (05/08/17)

REVISION NO. | DATE | EXPLANATION

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Jay S. Hruby
DATE: 02/06/2015 LIC. NO. 40990

DOWNTOWN IMPROVEMENTS
STREET & UTILITY CONSTRUCTION

GATEWAY PLAZA SITE PLAN

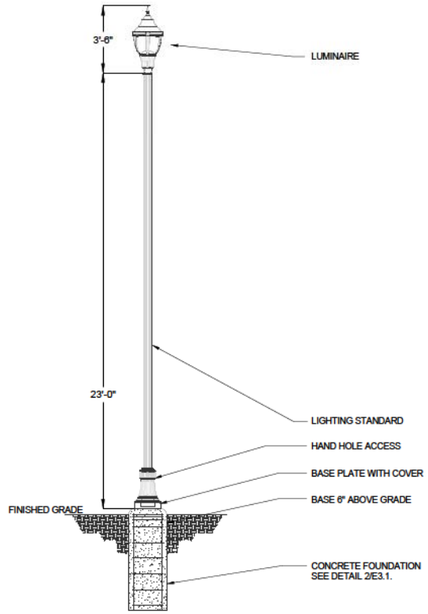
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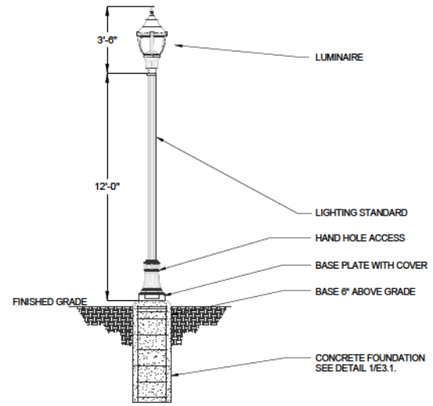
SHEET
E2.3

EDI #17-024

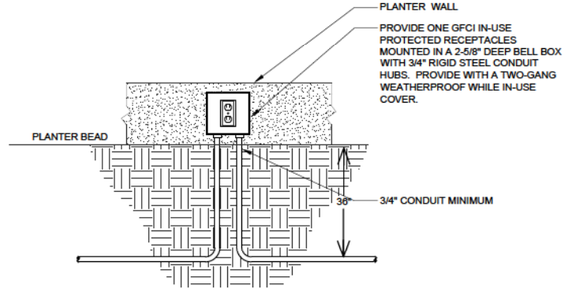
DESIGN REVIEW SET
NOT FOR CONSTRUCTION



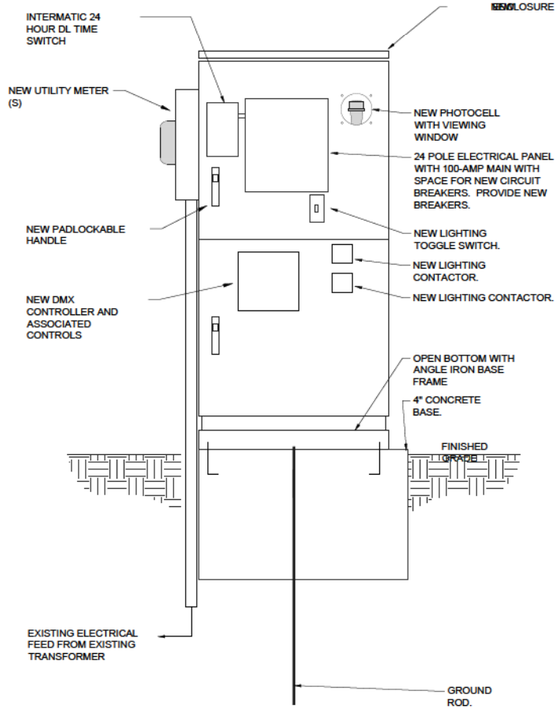
6 TYPE BB LIGHTING ASSSEMBLY DETAIL
SCALE: NO SCALE



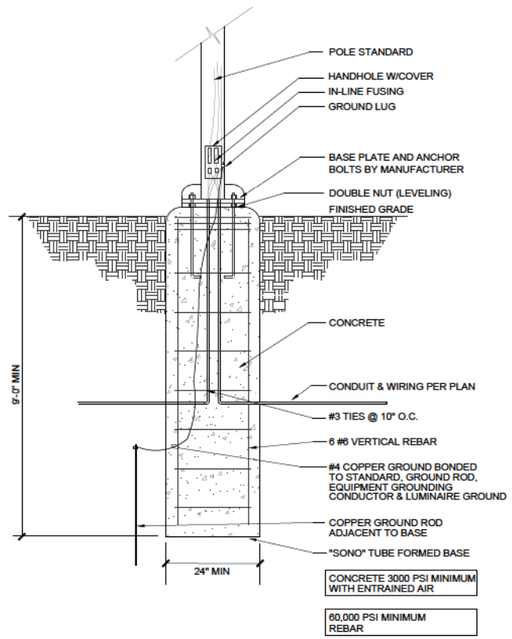
5 TYPE AA & CC LIGHTING ASSSEMBLY DETAIL
SCALE: NO SCALE



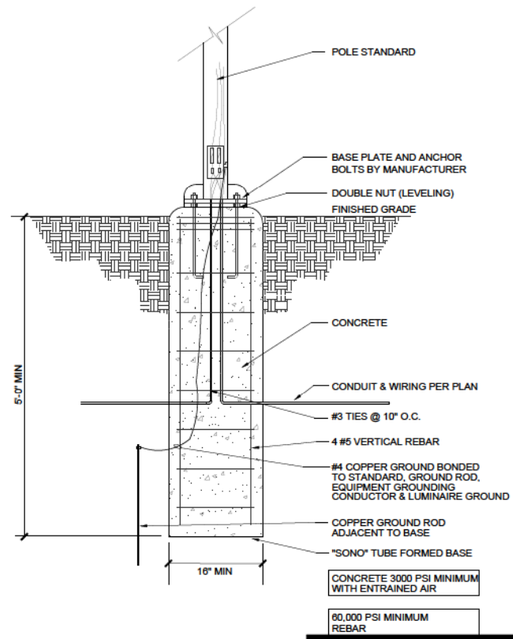
4 PLANTER RECEPTICAL DETAIL
SCALE: NO SCALE



3 SERVICE ENCLOSURE DETAIL
SCALE: None



2 LIGHTING ASSEMBLY 24" BASE DETAIL
SCALE: NO SCALE



1 LIGHTING ASSEMBLY 16" BASE DETAIL
SCALE: NO SCALE

PRELIMINARY
NOT FOR CONSTRUCTION
REVIEW (05/08/17)

REVISION NO.	DATE	EXPLANATION

SCALE: AS NOTED
DESIGN BY: JSH, PC
PLAN BY: PC
PROJECT NO: 1756-17
CHECKED BY: JSH, PC
DATE: 05/XX/2015
RECORD COPY BY:

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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

Jay S. Hruby
DATE: 02/06/2015 LIC. NO. 40990

DOWNTOWN IMPROVEMENTS
STREET & UTILITY CONSTRUCTION

ELECTRICAL DETAILS

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SHEET
E3.1

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