



Purchasing Division
120 City Hall, 411 W. 1st Street
Duluth, MN 55802-1189
TEL. 218-730-5340
purchasing@duluthmn.gov

REQUEST FOR QUOTES **(SIMPLIFIED BID)** **PARK ENTRANCE SIGNS**

RFQ NUMBER: 19-0516

QUOTES DUE Thursday, August 8, 2019 BY 2:00 PM

PROJECT DESCRIPTION: Provide and install signs at four City parks.

QUESTIONS: Please submit any questions regarding this project via e-mail to purchasing@duluthmn.gov. Responses will be sent to all invited suppliers/contractors.

****Be sure to prepare your quote based on paying prevailing wages, securing performance and payment bonds if needed, and obtaining the required insurance****

Quotes may be e-mailed to purchasing@duluthmn.gov, mailed to the Purchasing Office, City Hall, 411 West 1st Street, Room 120, Duluth, MN 55802 or dropped off in person at the same address. Please put RFQ # 19-0516 in the subject line of your e-mail or on the envelope if mailing/dropping off.

The City of Duluth reserves the right to split the award where there is a substantial savings to the City, to waive informalities and to reject any and/or all quotes. Price may not be the only consideration for award. Quotes must be firm for a minimum of 30 days. Prevailing wages must be paid on this project. The most recent wage decision is attached.

The following documents must be submitted with your quote:

1. **Responsible Contractor (required with bids over \$50,000)** - No construction contract in excess of \$50,000 will be awarded unless the Bidder is a "responsible contractor" as defined in Minnesota Statute §16C.285, subdivision 3. All Bidders submitting a quote for this project must verify that they meet the minimum criteria specified in the statute by submitting a Responsible Contractor Verification and Certification of Compliance form (attached) with their quote. The owner or officer of the company must sign the form under oath verifying compliance with each of the minimum criteria. Bidders must obtain verification of compliance from all subcontractors. Bidders must submit signed copies of verifications and certifications of compliance from subcontractors at the City's request.

The awarded supplier/contractor will be required to submit the following forms before a contract will be executed. Copies of standard contracts and forms are available for view and download on the City website at <https://www.duluthmn.gov/purchasing/forms/>:

1. **Insurance** – Contractor must provide proof of Public Liability (General Commercial), Automobile Liability, and Worker's Compensation insurance meeting City requirements. The insurance requirements are listed in section 7 of the draft construction contract.

2. **Affidavit of Non-Collusion** – The successful bidder shall be required to execute an affidavit stating that he/she has not entered into a collusive agreement with any other person, firm, or corporation in regard to any bid submitted.

3. **Performance & Payment Bonds (required for contracts over \$25,000)** - The awarded contractor will be required to submit performance and payments bonds in the full amount of the project cost prior to award.

4. **Affirmative Action/EEO** - The contractor must take affirmative action to ensure that the employees and applicants for employment are not discriminated against because of their race, color, creed, sex or national origin, and must meet the affirmative action goals. Contractors are encouraged to subcontract with Disadvantaged Business Enterprises (DBEs) when possible. A current list of certified DBEs is available on

the Minnesota Unified Certification website at <http://mnucp.metc.state.mn.us> . Contractor will comply with all applicable Equal Employment Opportunity laws and regulations. Awarded contractor must submit an Equal Employment Opportunity (EEO) Affirmative Action Policy Statement & Compliance Certificate.

5. **Out of State Contractor** - Unless a State of Minnesota Certificate of Exemption is provided, any out-of-state bidder receiving a bid award will have 8% retained from invoice payments on any contracts over \$50,000. Submit a signed copy of the signed exemption form when submitting Payment and Performance Bonds. Visit <https://www.revenue.state.mn.us/sites/default/files/2011-11/sde.pdf> to access this form.

The City of Duluth is an Equal Opportunity Employer. Contractor shall comply with all applicable Equal Employment Opportunity laws and regulations.

CITY OF DULUTH

Amanda Ashbach
Purchasing Agent

**MINNESOTA DEPARTMENT OF LABOR AND INDUSTRY PREVAILING WAGES FOR STATE FUNDED
CONSTRUCTION PROJECTS**



THIS NOTICE MUST BE POSTED ON THE JOBSITE IN A CONSPICUOUS PLACE

Construction Type: Highway and Heavy

Region Number: 01

Counties within region:

- CARLTON-09
- COOK-16
- ITASCA-31
- KOOCHICHING-36
- LAKE-38
- PINE-58
- ST. LOUIS-69

Effective: 2018-11-14

This project is covered by Minnesota prevailing wage statutes. Wage rates listed below are the minimum hourly rates to be paid on this project.

All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at a rate of one and one half (1 1/2) times the basic hourly rate.

Violations should be reported to:

Department of Transportation
Office of Construction
Transportation Building MS650
John Ireland Blvd
St. Paul, MN 55155
(651) 366-4209

Refer questions concerning the prevailing wage rates to:

Department of Labor and Industry
Prevailing Wage Section
443 Lafayette Road N
St Paul, MN 55155
(651) 284-5091
DLI.PrevWage@state.mn.us

LABOR CODE AND CLASS

		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
LABORERS (101 - 112) (SPECIAL CRAFTS 701 - 730)					
101	LABORER, COMMON (GENERAL LABOR WORK)	2018-11-14	30.78	19.32	50.10
		2019-05-01	31.78	20.27	52.05
102	LABORER, SKILLED (ASSISTING SKILLED CRAFT JOURNEYMAN)	2018-11-14	30.78	19.32	50.10
		2019-05-01	31.78	20.27	52.05
103	LABORER, LANDSCAPING (GARDENER, SOD LAYER AND NURSERY OPERATOR)	2018-11-14	23.02	15.99	39.01
		2019-05-01	24.00	16.96	40.96
104	FLAG PERSON	2018-11-14	30.78	19.32	50.10
		2019-05-01	31.78	20.27	52.05
105	WATCH PERSON	2018-11-14	27.23	19.07	46.30
		2019-05-01	28.23	20.02	48.25
106	BLASTER	2018-11-14	32.23	17.02	49.25
107	PIPELAYER (WATER, SEWER AND GAS)	2018-11-14	33.28	19.32	52.60
		2019-05-01	34.28	20.27	54.55
108	TUNNEL MINER	2018-11-14	31.48	19.32	50.80
109	UNDERGROUND AND OPEN DITCH LABORER (EIGHT FEET BELOW STARTING GRADE LEVEL)	2018-11-14	31.48	19.32	50.80
		2019-05-01	32.48	20.27	52.75
110	SURVEY FIELD TECHNICIAN (OPERATE TOTAL STATION, GPS RECEIVER, LEVEL, ROD OR RANGE POLES, STEEL TAPE MEASUREMENT; MARK AND DRIVE STAKES; HAND OR POWER DIGGING FOR AND IDENTIFICATION OF MARKERS OR MONUMENTS;	2018-11-14	30.78	19.32	50.10

PERFORM AND CHECK CALCULATIONS; REVIEW AND UNDERSTAND CONSTRUCTION PLANS AND LAND SURVEY MATERIALS). THIS CLASSIFICATION DOES NOT APPLY TO THE WORK PERFORMED ON A PREVAILING WAGE PROJECT BY A LAND SURVEYOR WHO IS LICENSED PURSUANT TO MINNESOTA STATUTES, SECTIONS 326.02 TO 326.15.

		2019-05-01	31.78	20.27	52.05
111	TRAFFIC CONTROL PERSON (TEMPORARY SIGNAGE)	2018-11-14	29.23	17.02	46.25
112	QUALITY CONTROL TESTER (FIELD AND COVERED OFF-SITE FACILITIES; TESTING OF AGGREGATE, ASPHALT, AND CONCRETE MATERIALS); LIMITED TO MN DOT HIGHWAY AND HEAVY CONSTRUCTION PROJECTS WHERE THE MN DOT HAS RETAINED QUALITY ASSURANCE PROFESSIONALS TO REVIEW AND INTERPRET THE RESULTS OF QUALITY CONTROL TESTERS. SERVICES PROVIDED BY THE CONTRACTOR.	2018-11-14	25.32	9.59	34.91

SPECIAL EQUIPMENT (201 - 204)

201	ARTICULATED HAULER	2018-11-14	36.04	20.30	56.34
		2019-05-01	37.79	20.50	58.29
202	BOOM TRUCK	2018-11-14	36.04	20.30	56.34
203	LANDSCAPING EQUIPMENT, INCLUDES HYDRO SEEDER OR MULCHER, SOD ROLLER, FARM TRACTOR WITH ATTACHMENT SPECIFICALLY SEEDING, SODDING, OR PLANT, AND TWO-FRAMED FORKLIFT (EXCLUDING FRONT, POSIT-TRACK, AND SKID STEER LOADERS), NO EARTHWORK OR GRADING FOR ELEVATIONS	2018-11-14	30.44	19.70	50.14
204	OFF-ROAD TRUCK	2018-11-14	31.37	16.70	48.07
205	PAVEMENT MARKING OR MARKING REMOVAL EQUIPMENT (ONE OR TWO PERSON OPERATORS); SELF-PROPELLED TRUCK OR TRAILER MOUNTED UNITS.	2018-11-14	28.36	20.89	49.25

HIGHWAY/HEAVY POWER EQUIPMENT OPERATOR

GROUP 2	2018-11-14	36.89	20.30	57.19
	2019-05-01	38.64	20.50	59.14
302 HELICOPTER PILOT (HIGHWAY AND HEAVY ONLY)				
303 CONCRETE PUMP (HIGHWAY AND HEAVY ONLY)				
304 ALL CRANES WITH OVER 135-FOOT BOOM, EXCLUDING JIB (HIGHWAY AND HEAVY ONLY)				
305 DRAGLINE, CRAWLER, HYDRAULIC BACKHOE (TRACK OR WHEEL MOUNTED) AND/OR OTHER SIMILAR EQUIPMENT WITH SHOVEL-TYPE CONTROLS THREE CUBIC YARDS AND OVER MANUFACTURER.S RATED CAPACITY INCLUDING ALL ATTACHMENTS. (HIGHWAY AND HEAVY ONLY)				
306 GRADER OR MOTOR PATROL				
307 PILE DRIVING (HIGHWAY AND HEAVY ONLY)				
308 TUGBOAT 100 H.P. AND OVER WHEN LICENSE REQUIRED (HIGHWAY AND HEAVY ONLY)				
GROUP 3	2018-11-14	36.34	20.30	56.64
309 ASPHALT BITUMINOUS STABILIZER PLANT				
310 CABLEWAY				
311 CONCRETE MIXER, STATIONARY PLANT (HIGHWAY AND HEAVY ONLY)				
312 DERRICK (GUY OR STIFFLEG)(POWER)(SKIDS OR STATIONARY) (HIGHWAY AND HEAVY ONLY)				
313 DRAGLINE, CRAWLER, HYDRAULIC BACKHOE (TRACK OR WHEEL MOUNTED) AND/OR SIMILAR EQUIPMENT WITH SHOVEL-TYPE CONTROLS, UP TO THREE CUBIC YARDS MANUFACTURER.S RATED CAPACITY INCLUDING ALL ATTACHMENTS (HIGHWAY AND HEAVY ONLY)				
314 DREDGE OR ENGINEERS, DREDGE (POWER) AND ENGINEER				
315 FRONT END LOADER, FIVE CUBIC YARDS AND OVER INCLUDING ATTACHMENTS. (HIGHWAY AND HEAVY ONLY)				
316 LOCOMOTIVE CRANE OPERATOR				
317 MIXER (PAVING) CONCRETE PAVING, ROAD MOLE, INCLUDING MUCKING OPERATIONS, CONWAY OR SIMILAR TYPE				
318 MECHANIC . WELDER ON POWER EQUIPMENT (HIGHWAY AND HEAVY ONLY)				
319 TRACTOR . BOOM TYPE (HIGHWAY AND HEAVY ONLY)				
320 TANDEM SCRAPER				
321 TRUCK CRANE . CRAWLER CRANE (HIGHWAY AND HEAVY ONLY)				
322 TUGBOAT 100 H.P AND OVER (HIGHWAY AND HEAVY ONLY)				
GROUP 4	2018-11-14	36.04	20.30	56.34

- 323 AIR TRACK ROCK DRILL
- 324 AUTOMATIC ROAD MACHINE (CMI OR SIMILAR) (HIGHWAY AND HEAVY ONLY)
- 325 BACKFILLER OPERATOR
- 326 CONCRETE BATCH PLANT OPERATOR (HIGHWAY AND HEAVY ONLY)
- 327 BITUMINOUS ROLLERS, RUBBER TIRED OR STEEL DRUMMED (EIGHT TONS AND OVER)
- 328 BITUMINOUS SPREADER AND FINISHING MACHINES (POWER), INCLUDING PAVERS, MACRO SURFACING AND MICRO SURFACING, OR SIMILAR TYPES (OPERATOR AND SCREED PERSON)
- 329 BROKK OR R.T.C. REMOTE CONTROL OR SIMILAR TYPE WITH ALL ATTACHMENTS
- 330 CAT CHALLENGER TRACTORS OR SIMILAR TYPES PULLING ROCK WAGONS, BULLDOZERS AND SCRAPERS
- 331 CHIP HARVESTER AND TREE CUTTER
- 332 CONCRETE DISTRIBUTOR AND SPREADER FINISHING MACHINE, LONGITUDINAL FLOAT, JOINT MACHINE, AND SPRAY MACHINE
- 333 CONCRETE MIXER ON JOBSITE (HIGHWAY AND HEAVY ONLY)
- 334 CONCRETE MOBIL (HIGHWAY AND HEAVY ONLY)
- 335 CRUSHING PLANT (GRAVEL AND STONE) OR GRAVEL WASHING, CRUSHING AND SCREENING PLANT
- 336 CURB MACHINE
- 337 DIRECTIONAL BORING MACHINE
- 338 DOPE MACHINE (PIPELINE)
- 339 DRILL RIGS, HEAVY ROTARY OR CHURN OR CABLE DRILL (HIGHWAY AND HEAVY ONLY)
- 340 DUAL TRACTOR
- 341 ELEVATING GRADER
- 342 FORK LIFT OR STRADDLE CARRIER (HIGHWAY AND HEAVY ONLY)
- 343 FORK LIFT OR LUMBER STACKER (HIGHWAY AND HEAVY ONLY)
- 344 FRONT END, SKID STEER OVER 1 TO 5 C YD
- 345 GPS REMOTE OPERATING OF EQUIPMENT
- 346 HOIST ENGINEER (POWER) (HIGHWAY AND HEAVY ONLY)
- 347 HYDRAULIC TREE PLANTER
- 348 LAUNCHER PERSON (TANKER PERSON OR PILOT LICENSE)
- 349 LOCOMOTIVE (HIGHWAY AND HEAVY ONLY)
- 350 MILLING, GRINDING, PLANING, FINE GRADE, OR TRIMMER MACHINE
- 351 MULTIPLE MACHINES, SUCH AS AIR COMPRESSORS, WELDING MACHINES, GENERATORS, PUMPS (HIGHWAY AND HEAVY ONLY)
- 352 PAVEMENT BREAKER OR TAMPING MACHINE (POWER DRIVEN) MIGHTY MITE OR SIMILAR TYPE
- 353

PICKUP SWEEPER, ONE CUBIC YARD AND OVER HOPPER CAPACITY(HIGHWAY AND HEAVY ONLY)

- 354 PIPELINE WRAPPING, CLEANING OR BENDING MACHINE
- 355 POWER PLANT ENGINEER, 100 KWH AND OVER (HIGHWAY AND HEAVY ONLY)
- 356 POWER ACTUATED HORIZONTAL BORING MACHINE, OVER SIX INCHES
- 357 PUGMILL
- 358 PUMPCRETE (HIGHWAY AND HEAVY ONLY)
- 359 RUBBER-TIRED FARM TRACTOR WITH BACKHOE INCLUDING ATTACHMENTS (HIGHWAY AND HEAVY ONLY)
- 360 SCRAPER
- 361 SELF-PROPELLED SOIL STABILIZER
- 362 SLIP FORM (POWER DRIVEN) (PAVING)
- 363 TIE TAMPER AND BALLAST MACHINE
- 364 TRACTOR, BULLDOZER (HIGHWAY AND HEAVY ONLY)
- 365 TRACTOR, WHEEL TYPE, OVER 50 H.P. WITH PTO UNRELATED TO LANDSCAPING (HIGHWAY AND HEAVY ONLY)
- 366 TRENCHING MACHINE (SEWER, WATER, GAS) EXCLUDES WALK BEHIND TRENCHER (HIGHWAY AND HEAVY ONLY)
- 367 TUB GRINDER, MORBARK, OR SIMILAR TYPE
- 368 WELL POINT DISMANTLING OR INSTALLATION (HIGHWAY AND HEAVY ONLY)

GROUP 5	2018-11-14	33.00	20.30	53.30
	2019-05-01	25.52	20.50	46.02

- 369 AIR COMPRESSOR, 600 CFM OR OVER (HIGHWAY AND HEAVY ONLY)
- 370 BITUMINOUS ROLLER (UNDER EIGHT TONS)
- 371 CONCRETE SAW (MULTIPLE BLADE) (POWER OPERATED)
- 372 FORM TRENCH DIGGER (POWER)
- 373 FRONT END, SKID STEER UP TO 1C YD
- 374 GUNITE GUNALL (HIGHWAY AND HEAVY ONLY)
- 375 HYDRAULIC LOG SPLITTER
- 376 LOADER (BARBER GREENE OR SIMILAR TYPE)
- 377 POST HOLE DRIVING MACHINE/POST HOLE AUGER
- 378 POWER ACTUATED AUGER AND BORING MACHINE
- 379 POWER ACTUATED JACK
- 380 PUMP (HIGHWAY AND HEAVY ONLY)
- 381 SELF-PROPELLED CHIP SPREADER (FLAHERTY OR SIMILAR)
- 382 SHEEP FOOT COMPACTOR WITH BLADE . 200 H.P. AND OVER

- 383 SHOULDERING MACHINE (POWER) APS CO OR SIMILAR TYPE INCLUDING SELF-PROPELLED SAND AND CHIP SPREADER
- 384 STUMP CHIPPER AND TREE CHIPPER
- 385 TREE FARMER (MACHINE)

GROUP 6	2018-11-14	31.79	20.30	52.09
	2019-05-01	25.52	20.50	46.02
387 CAT, CHALLENGER, OR SIMILAR TYPE OF TRACTORS, WHEN PULLING DISK OR ROLLER				
388 CONVEYOR (HIGHWAY AND HEAVY ONLY)				
389 DREDGE DECK HAND				
390 FIRE PERSON OR TANK CAR HEATER (HIGHWAY AND HEAVY ONLY)				
391 GRAVEL SCREENING PLANT (PORTABLE NOT CRUSHING OR WASHING)				
392 GREASER (TRACTOR) (HIGHWAY AND HEAVY ONLY)				
393 LEVER PERSON				
394 OILER (POWER SHOVEL, CRANE, TRUCK CRANE, DRAGLINE, CRUSHERS, AND MILLING MACHINES, OR OTHER SIMILAR HEAVY EQUIPMENT) (HIGHWAY AND HEAVY ONLY)				
395 POWER SWEEPER				
396 SHEEP FOOT ROLLER AND ROLLERS ON GRAVEL COMPACTION, INCLUDING VIBRATING ROLLERS				
397 TRACTOR, WHEEL TYPE, OVER 50 H.P., UNRELATED TO LANDSCAPING				

TRUCK DRIVERS

GROUP 1	2018-11-14	30.85	17.50	48.35
601 MECHANIC . WELDER				
602 TRACTOR TRAILER DRIVER				
603 TRUCK DRIVER (HAULING MACHINERY INCLUDING OPERATION OF HAND AND POWER OPERATED WINCHES)				
GROUP 2	2018-11-14	30.30	17.50	47.80
604 FOUR OR MORE AXLE UNIT, STRAIGHT BODY TRUCK				
GROUP 3	2018-11-14	27.82	17.20	45.02
605 BITUMINOUS DISTRIBUTOR DRIVER				
606 BITUMINOUS DISTRIBUTOR (ONE PERSON OPERATION)				
607 THREE AXLE UNITS				

GROUP 4	2018-11-14	29.95	17.50	47.45
608 BITUMINOUS DISTRIBUTOR SPRAY OPERATOR (REAR AND OILER)				
609 DUMP PERSON				
610 GREASER				
611 PILOT CAR DRIVER				
612 RUBBER-TIRED, SELF-PROPELLED PACKER UNDER 8 TONS				
613 TWO AXLE UNIT				
614 SLURRY OPERATOR				
615 TANK TRUCK HELPER (GAS, OIL, ROAD OIL, AND WATER)				
616 TRACTOR OPERATOR, UNDER 50 H.P.				

SPECIAL CRAFTS

701 HEATING AND FROST INSULATORS	2018-11-14	40.31	16.75	57.06
702 BOILERMAKERS	2018-11-14	37.22	27.14	64.36
	2019-01-01	38.33	27.43	65.76
703 BRICKLAYERS	2018-11-14	32.91	22.82	55.73
704 CARPENTERS	2018-11-14	36.15	20.43	56.58
	2019-05-01	38.10	20.43	58.53
705 CARPET LAYERS (LINOLEUM)	2018-11-14	32.13	12.85	44.98
706 CEMENT MASONS	2018-11-14	34.80	19.18	53.98
707 ELECTRICIANS	2018-11-14	36.85	26.20	63.05
711 GROUND PERSON	2018-11-14	31.48	15.66	47.14
	2019-04-01	32.42	16.23	48.65
712 IRONWORKERS	2018-11-14	32.64	27.85	60.49
713 LINEMAN	2018-11-14	44.97	19.44	64.41
	2019-04-01	46.32	20.12	66.44

714 MILLWRIGHT	2018-11-14	38.07	18.94	57.01
	2019-05-01	40.02	18.94	58.96
715 PAINTERS (INCLUDING HAND BRUSHED, HAND SPRAYED, AND THE TAPING OF PAVEMENT MARKINGS)	2018-11-14	30.96	18.77	49.73
716 PILEDRIVER (INCLUDING VIBRATORY DRIVER OR EXTRACTOR FOR PILING AND SHEETING OPERATIONS)	2018-11-14	38.01	21.08	59.09
	2019-05-01	39.96	21.08	61.04
717 PIPEFITTERS . STEAMFITTERS	2018-11-14	39.99	31.30	71.29
719 PLUMBERS	2018-11-14	43.40	19.61	63.01
721 SHEET METAL WORKERS	2018-11-14	32.25	22.23	54.48
723 TERRAZZO WORKERS	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PRE VWAGE@STATE.MN.US			
724 TILE SETTERS	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PRE VWAGE@STATE.MN.US			
725 TILE FINISHERS	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PRE VWAGE@STATE.MN.US			
727 WIRING SYSTEM TECHNICIAN	2018-11-14	38.97	17.14	56.11
	2019-07-01	40.17	17.14	57.31
728 WIRING SYSTEMS INSTALLER	2018-11-14	27.30	14.31	41.61
	2019-07-01	28.14	14.31	42.45
729 ASBESTOS ABATEMENT WORKER	2018-11-14	30.83	18.70	49.53
	2019-01-01	31.78	19.35	51.13

730 SIGN ERECTOR

FOR RATE CALL 651-284-5091 OR
EMAIL
DLI.PRE VWAGE@STATE.MN.US

BID FORM
19-0516 Park Entrance Signs

ITEM	Unit Price	Qty Each	Extended Price
Mobilization (lump sum)	\$	1	\$
Price for EACH Sign type A4 (neighborhood park ID)	\$	4	\$
Installation for EACH Sign type A4	\$	4	\$
Price for EACH Sign type B5 (map/emergency sign)	\$	1	\$
Installation for EACH Sign type B5	\$	1	\$
Price for EACH Sign type F3.T (park regulatory sign)	\$	7	\$
Installation for EACH Sign type F3.T	\$	7	\$
TOTAL	\$		

TOTAL PRICE IN WRITING

ACKNOWLEDGMENT OF ADDENDA

ADDENDUM # INITIAL/DATE

ADDENDUM # INITIAL/DATE

ADDENDUM # INITIAL/DATE

Signature _____ Date _____

Name/Title _____

Company Name _____

Address _____

City, State, Zip _____

Tel. _____ E-Mail _____

If your organization is certified as a Disadvantaged Business Enterprise, please check here: ☐

Fabrication & installation of the work to be provided in these drawings must meet the following conditions and specifications.

GENERAL

The requested work will comply with all Federal and State codes, laws and regulations, and all municipal ordinances or regulations in effect at the time work is being performed.

Any alternates or changes to materials, construction methods and sign types specified in this document must be approved in writing by City of Duluth or client's representative prior to implementation.

LABOR

GENERAL

Any work required under this section, that is not specified in detail, shall be constructed in accordance with approved shop drawings.

All work shall be fabricated & erected square, plumb, straight & true. Cut-out letters, numbers & images shall be cut in continuous, even lines as indicated on drawings. Fabricator shall provide all supporting & anchoring means as required for proper installation. Fabricator is responsible to provide proper thickness to eliminate waviness or other deformations in materials.

EXPOSED METAL SURFACES

Exposed metal surfaces (sign faces, et. al.) shall be reinforced, braced, and securely fastened to provide rigid assembly. Sign faces and frames shall be free of all holes, except those required for installing letters or fasteners and to provide drainage via weep-holes. Service doors shall be concealed wherever possible. All steel sign components (non fasteners) exposed to weather shall be hot-dipped galvanized and finish painted. All non-sign graphic panel exposed metal surfaces to be painted Matthew's Paint Dark Slate (#MP10269), see MP Color Conversion Chart (this page) for details

EXPOSED JOINTS

All metal frame/structure joints shall be continuously welded, ground & polished smooth and shall not be visible. All wood joints (incl. miters) shall fit snug, neat, and tight w/ no gapping and an even smooth appearance.

INTERIOR AND EXTERIOR SIGN CABINETS AND FRAMES

Exterior sign cabinet and frame shall be constructed of painted aluminum, and must be sufficiently rigid to prevent visible deformation. Aluminum sign frame should not be visible from any side of sign. Aluminum blade sign panels should be of a sufficient thickness to prevent damage from wind loads and vandalism and shall be painted on all sides. Visible graphic sign panel fasteners shall be tamper proof and counter-sunk flush to sign face. Fastener assemblies used to secure sign panel and frame assembly to wood sign structure shall not be visible. Sign cabinet interior shall be weather proof and painted white. Weep-holes should be provided and sized to ensure proper drainage per sign cabinet size.

LABOR (continued)

ACCESSORIES, ANCHORS, MOUNTING DEVICES AND SPACES

Accessories, anchorage, mounting devices and spacers shall be guaranteed non-staining to adjacent structure and sign finishes for a period of five years after final acceptance. Visible graphic sign panel fasteners shall be aluminum, a minimum of 3/4" in length, with tamper-proof heads painted to match sign, and counter-sunk flush with face of sign. Fastener assemblies used to secure sign panel and frame assembly to wooded sign post structure shall be of structural grade aluminum, spaced a maximum of 8" O.C., and shall not be visible. All visible structural steel bolt assemblies shall be hex-head, included washers at both ends between wood and assembly, sized per drawings, and hot-dipped galvanized finish. Bolt assemblies shall have a minimum thread exposure past nut of 1/4" and a maximum of 3/4". All other wood fasteners to be #10 hot-dipped galvanized SD screw or equal, with a minimum penetration depth of 2/3 the thickness of the wood member being attached. (Example: 2-1/2" screw penetration depth when joining (2) 1-1/2" thick boards).

INSTALLATION

All sign locations shall be field staked and approved by owner or their representative. Sign locationed to be field staked as indicated on the location maps unless otherwise directed by owner. Signs shall be secured with hardware as indicated on these drawings or methods as approved on shop drawings showing alternative methods. Survey of ground conditions relating to soil content, density & compaction are the responsibility of the installing company and must be included in the initial bid. Removal and/or replacement of asphalt, concrete, existing footings and poles are the responsibility of the installer unless otherwise written on these drawings.

MATERIALS

GENERAL

All materials used in fabrication and installation shall be new, high quality, and free of defects impairing strength, durability, or appearance. Wood thicknesses are nominal dimensions, all other material thicknesses, sizing, and placement must be as written on drawings unless otherwise approved by owner during shop drawings.

METAL ROOF AND STRUCTURE

Metal roofing must use American Building Components Commercial Metal Roofing PBU panel product line or equal. Roof fascia, drip edge, and other trim and finishing components must match manufacture finishes and installation recommendations. Metal roof must be painted Matthew's Paint Dark Slate (#MP10269), see MP Color Conversion Chart (this page) for details unless otherwise approved by owner during shop drawings. Structure of metal roof to be constructed of (2) stacked 2"x12" cedar tone pressure treated structural grade boards cut to length specified in drawing. Wood roof structure to be assembled and attached to wooden sign structure using #8 2-1/2" hot-dipped galvanized SD screw or equal.

MATERIALS (continued)

PLASTICS

All fabrication and adhesives to be per highest quality industry standards. All adhesive to be nonstaining and warranted for the life of the product.

Thickness, color, size, seam placement, seam construction, depth of pillowed faces and brand name as written on these drawings.

Embossed or flat sheet plastic shall be free of wrinkles or imperfections from forming or fabrication. All surfaces shall be free of scratches

SEALANTS, CHAULKS, AND FLEXIBLE MATERIALS

Thickness, color, size, and brand names shall be as written on drawings.

All fastening devices must meet dealer recommendations. Seam placement shall be as documented in drawings, straight and symmetrical. Face surface shall be free of wrinkles, discoloration & imperfections. Flexible face to be of a tensile strength to withstand 120 lbs. per square foot of wind pressure (UL - 48 testing).

WOOD

All visible wood members should be number two or better clear cedar, structural grade, and unfinished to allow for natural weathering to gray finish. Wood should be free of major visual and structural defects, and should have mill stamps and other markings removed.

PAINTS, COATINGS, AND FINISHES

All aluminum, metal & fasteners shall be finish coated with an appropriate primer & color coat with corrosion inhibitors guaranteed for ten (10) years against fading, chipping, cracking, peeling & discoloration. Fabricator to provide paint warrantee from selected fabrication for 3 years. Colors shall meet specifications on drawings. Sample colors shall be furnished by fabricator for approvals by owner or their representative.

All flexible face coatings shall be guaranteed for eight (8) years against fading, discoloration & mildew, provided that routine six month cleaning and maintenance has been performed by an approved sign representative.

All holes, cut edges & penetrations of prefinished metals and aluminum shall be free of burrs, primed & brush painted to maintain a corrosion proof finish.

SHOP DRAWINGS REQUIRED

Drawings show design intent, contractor responsible for submitting shop drawings indicating all materials, finishes, dimensions, and fasteners for review and approval. Structural engineer licensed in the State of Minnesota shall review and sign as part of shop drawings submittal

GUARANTEE AND SERVICE

Contractor shall guarantee that all material and work furnished for one (1) year to be free of defects & faulty workmanship, & that any defective material or work shall be promptly repaired or replaced without additional cost to the owner or their consultant. Contractor shall, during the first year of operation, fully maintain & service the signs, making regular inspections, servicing, replacing electrical equipment as necessary to operate the signs without additional cost to the client. Any guarantees for additional time or services noted in these drawings are to be included in the contract.

DRAINAGE

All sign elements and footings shall have proper drainage features and structural to prevent the detention of water in or on the sign structure. Concrete footings and adjacent grading should allow for the free drainage (surface and sub-surface) of water away from the footings.

PROTECTION

All exposed surfaces and sign components shall be protected until final installation and approval by client or their consultant. Any work damaged in any way before installation and approval occurs shall be the responsibility of the fabricator without additional cost to the owner or their consultant

CLEAN UP AND SITE RESTORATION

During the process of implementation, the premises shall be kept reasonably free of all debris & waste materials resulting from the work being completed in this contract. Upon completion and before final acceptance of work, all debris, rubbish, leftover materials, tools and equipment shall be removed from the site.

Final cleaning of all surfaces shall be carefully done strictly in accordance with the manufacturer's or consultants instructions.

Contractor to restore surrounding to existing or better condition at project completion

NOTES

Fabricating sign company responsible for wind load calculations for sign support & concrete standards based on soil conditions & prevailing winds.

Drawings show design intent only, contractor to provide shop drawings for review and written approval by owner or owner's representative

Contractor to provide color and material samples for review and written approval by owner or owner's representative

Contractor to stake all sign locations in the field for owner final written approval prior to installation

Contractor to field verify sign site conditions prior to providing bid for fabrication and installation noting depth to bedrock that may affect footing design

Installing sign company will not alter natural soil conditions without verifying with owner.

Contractor shall call for utility locates and verify easements and locations of all utilities

All permits are the responsibility of the contracted sign company.

MP PROJECT COLOR CONVERSION CHART

Color Name	Matthew's Paint #	CMYK
Dansk Blue	MP3758	80, 50, 15, 30
Kryptonite Green	MP25899	80, 0, 100, 10
Durango Grey	MP25849	0, 0, 10, 50
Dark Slate	MP10269	67 56 53 30
Spring Green	MP26749	60, 0, 100, 0
Clay Basket Brown	MP25839	40, 40, 50, 20
Marina Blue	MP29320	85, 50, 0, 10
Bicycle Blue	MP25808	100, 60, 0, 10
Light Blue	MP25465	51, 30, 0, 33

SHEET TITLE / SIGN TYPE: SIGN PACKAGE SPECIFICATIONS	DATE DRAWN: June 18, 2019	DATE REVISED:	SHEET #: 1
PROJECT NAME/NUMBER: 2019 Park Entrance Signage		 Hoisington Koegler Group Inc. 123 North 3rd St, Suite 100 Minneapolis, MN 55305 Phone: 612.338.0800 Fax: 612.338.6838	

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ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE DRAWINGS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE BUILDING CODE. THE PUBLICATIONS LISTED BELOW ARE THE GOVERNING CODES AND STANDARDS AND ARE REFERENCED BY THEIR BASIC DESIGNATION. IN THE CASE OF CONFLICTING REQUIREMENTS, THE BUILDING CODE SHALL GOVERN.

BUILDING CODE	INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION, INCLUDING THE STATE OF MINNESOTA BUILDING CODE AMENDMENTS.
ACI 318	AMERICAN CONCRETE INSTITUTE. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE "2011 EDITION
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", 2010 EDITION
ASCE 7	AMERICAN SOCIETY OF CIVIL ENGINEERS, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", 2010 EDITION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM INTERNATIONAL)
AWS A2.4	AMERICAN WELDING SOCIETY, "SYMBOLS FOR WELDING AND NONDESTRUCTIVE TESTING", 2007 EDITION
AWS D1.1	AMERICAN WELDING SOCIETY, "STRUCTURAL WELDING CODE – STEEL," 2010 EDITION
ICC	INTERNATIONAL CODE COUNCIL, INTERNATIONAL CODE COUNCIL - EVALUATION SERVICES (ICC-ES)

LOAD COMBINATIONS ARE IN ACCORDANCE WITH SECTION 1605 OF THE BUILDING CODE.

WIND PRESSURE SHALL BE IN ACCORDANCE WITH THE BUILDING CODE (SECTION 1609).

BASIC WIND SPEED:	V = 105 MPH (3-SECOND GUST)
RISK CATEGORY:	I
EXPOSURE:	C
ENCLOSURE CLASSIFICATION:	ENCLOSED
INT. PRESSURE COEFFICIENT:	GC _{pi} = 0.18

1. MIXING, BATCHING, TRANSPORTING, PLACING, AND CURING OF ALL CONCRETE, AND SELECTION OF CONCRETE MATERIALS, SHALL CONFORM TO ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS," EXCEPT AS NOTED BELOW. PROPORTIONS OF AGGREGATE TO CEMENTITIOUS PASTE SHALL BE SUCH AS TO PRODUCE A DENSE, WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER.
2. ALL CONCRETE EXPOSED TO THE WEATHER SHALL CONTAIN AN ACCEPTABLE ADMIXTURE TO PRODUCE AIR-ENTRAINED CONCRETE WITH TOTAL AIR CONTENT, AS NOTED IN THE CONCRETE MIX SPECIFICATION TABLE. TOLERANCE FOR AIR CONTENT SHALL BE +/- 1 PERCENT. AIR CONTENT SHALL BE MEASURED AT THE DISCHARGE OF THE TRUCK. IF CONCRETE IS PUMPED, AIR CONTENT SHALL BE MEASURED AT THE DISCHARGE END OF THE PUMP LINE. TESTS FOR AIR CONTENT SHALL MEET ASTM C172 REQUIREMENTS.
3. MAXIMUM SIZE OF AGGREGATE SHALL BE AS LISTED BELOW. MAXIMUM FLY ASH AS A PERCENTAGE OF TOTAL WEIGHT OF CEMENTITIOUS MATERIAL SHALL BE 25 PERCENT. FLY ASH SHALL BE CLASS C OR F, MEETING ASTM C618 REQUIREMENTS. WATER/CEMENT RATIO SHALL BE BASED ON TOTAL CEMENTITIOUS MATERIAL, INCLUDING FLY ASH AND OTHER POZZOLANIC MATERIALS.
4. THE CONTRACTOR SHALL DETERMINE SLUMP. EACH CONCRETE MIX SUBMITTED SHALL HAVE THE SLUMP SPECIFIED. SLUMP SHALL BE MEASURED AT THE DISCHARGE OF THE TRUCK. IF CONCRETE IS PUMPED, SLUMP SHALL BE MEASURED AT THE DISCHARGE END OF THE PUMP LINE. SLUMPS SHALL BE WITHIN +1 INCH AND -2 INCHES OF THE SPECIFIED SLUMP.
5. THE USE OF SUPER PLASTICIZERS AND WATER REDUCERS IS ALLOWED, BUT NOT REQUIRED. ALL ADMIXTURES SHALL BE CHLORIDE FREE UNLESS OTHERWISE APPROVED BY THE ENGINEER.

LOCATION	f _c ' (PSI)	TEST AGE (DAYS)	MAX W/C RATIO	AIR CONTENT (%)	MAX. AGGREGATE SIZE
WALLS AND FOOTINGS	4,000	28	0.44	6%	1"

1. ALL REINFORCING SHALL BE NEW BILLET STOCK ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. BARS SHALL BE SECURELY TIED IN PLACE WITH #16 DOUBLE-ANNEALED IRON WIRE. BARS SHALL BE SUPPORTED ON ACCEPTABLE CHAIRS. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES." CONTRACTOR SHALL COORDINATE REINFORCING STEEL PLACEMENT DETAILS AND PROVIDE TEMPLATES FOR PLACING STEEL IN CONGESTED AREAS AS NECESSARY. SHOP DRAWINGS (INCLUDING PLACING PLANS AND ELEVATIONS) SHALL BE SUBMITTED TO, AND REVIEWED BY, THE ARCHITECT/ENGINEER BEFORE STARTING FABRICATION.
2. NO REINFORCING BARS SHALL BE SPLICED BY WELDING.
3. WELDING OR TACK WELDING OF REINFORCING BARS TO OTHER BARS OR TO PLATES, ANGLES, ETC, IS PROHIBITED.
4. MINIMUM CAST-IN-PLACE CONCRETE COVER OVER REINFORCING STEEL, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
 - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: ALL SIZES: 3 INCHES
 - B. CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #5 BAR OR SMALLER: 1 1/2 INCHES
 - #6 BAR OR LARGER: 2 INCHES

1. ANCHORAGE TO HARDENED CONCRETE SHALL INCLUDE MECHANICAL AND ADHESIVE ANCHORS OF SIZE, NUMBER, AND SPACING AS SHOWN ON THE DRAWINGS.
2. HOLES SHALL BE DRILLED AND CLEANED AND ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS AND AN APPROVED ICC-ES REPORT.
3. INSPECTION AND TESTING SHALL BE PROVIDED IN ACCORDANCE WITH THE GENERAL NOTES AND THE APPROVED ICC-ES REPORT.
4. WHERE A SPECIFIC TYPE OF ANCHORAGE IS SPECIFIED ON THE DRAWINGS, SUBSTITUTION FOR A DIFFERENT TYPE OF ANCHORAGE (INCLUDING SUBSTITUTING FOR CAST-IN-PLACE ANCHORAGE) SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL.

1. ACCEPTABLE ADHESIVE (EPOXY) ANCHORS SHALL BE AS FOLLOWS:
 - A. INSTALLED IN CONCRETE:
 - HILTI "HIT-HY 200" (ICC-ES ESR-3187)
 - SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
 - APPROVED ALTERNATE WITH A CURRENT ICC-ES REPORT
2. UNLESS NOTED OTHERWISE, ANCHORS SHALL BE ASTM A36 THREADED ROD OR ASTM A615, GRADE 60 REINFORCING STEEL DOWELS.
3. UNLESS NOTED OTHERWISE ON THE DRAWINGS, MINIMUM EFFECTIVE ANCHOR EMBEDMENT DEPTH SHALL BE 6.5 ANCHOR DIAMETERS, AND MINIMUM ANCHOR SPACING SHALL BE 6 ANCHOR DIAMETERS.
4. HOLES SHALL BE DRILLED WITH ROTARY IMPACT HAMMER OR EQUIVALENT METHOD TO PRODUCE A HOLE WITH A ROUGH INSIDE SURFACE. CORE DRILLING HOLES IS NOT PERMITTED.
5. NO REINFORCING SHALL BE CUT TO INSTALL ADHESIVE ANCHORS.
6. TWO-PART ADHESIVES SHALL BE MIXED, APPLIED, AND CURED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS IN THE ICC-ES REPORT. ALL PLACEMENT AND CURING SHALL BE CONDUCTED WITH CONCRETE AND AIR TEMPERATURES ABOVE 50 DEGREES FAHRENHEIT. ADHESIVE SHALL BE APPLIED ONLY TO CLEAN, DRY CONCRETE. POSITIVE PROTECTION SHALL BE PROVIDED SO THAT ANCHORS ARE NOT DISTURBED DURING THE CURING PERIOD.
7. DEFECTIVE OR ABANDONED HOLES SHALL BE FILLED WITH NON-SHRINK GROUT OR AN INJECTABLE ADHESIVE MATCHING THE ADJACENT CONCRETE COMPRESSIVE STRENGTHS. NOTIFY THE STRUCTURAL ENGINEER OF DEFECTIVE OR ABANDONED HOLES IN WALLS AND COLUMNS. THESE ELEMENTS MAY REQUIRE NON-SHRINK GROUT WITH A COMPRESSIVE MODULUS OF ELASTICITY MATCHING THAT OF THE ADJACENT CONCRETE.

1. GROUT SHALL BE AN APPROVED NONSHRINK CEMENTITIOUS GROUT CONTAINING NATURAL AGGREGATES DELIVERED TO THE JOB SITE IN FACTORY PREPACKAGED CONTAINERS REQUIRING ONLY THE ADDITION OF WATER.
2. THE MINIMUM 28-DAY COMPRESSIVE STRENGTH SHALL BE AT LEAST 1,000 PSI HIGHER THAN THE SUPPORTING CONCRETE STRENGTH, UNLESS NOTED OTHERWISE.
3. GROUT SHALL BE MIXED, APPLIED, AND CURED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. FOR GROUTING UNDER BASE PLATES, GROUT SHALL BE PROPORTIONED AS A FLOWABLE MIX. WHEN A FLOWABLE MIX DOES NOT PROVIDE THE REQUIRED STRENGTH OR WHEN A MINIMUM STRENGTH OF 10,000 PSI IS REQUIRED, AN EPOXY GROUT SHALL BE USED.

1. ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 H.D. GALVANIZED WITH CLASS 1A THREADS, UNLESS NOTED OTHERWISE.
2. ANCHOR RODS MAY BE HEADED BOLT OR UNHEADED ROD MATERIAL. PROVIDE A HEAVY HEX NUT ON THE EMBEDDED END OF THE UNHEADED ROD AND WELD IN PLACE TO PREVENT IT FROM TURNING.
3. FURNISH HARDENED PLATE WASHERS, LOCK WASHERS, AND MATCHING HEAVY HEX NUTS FOR SECURING THE BASE PLATE TO THE ANCHOR RODS.
4. HOOKED ANCHOR RODS SHALL NOT BE USED EXCEPT WHERE NOTED.
5. A RIGID STEEL TEMPLATE SHALL BE USED TO LOCATE ANCHOR RODS WHILE PLACING CONCRETE.
6. ANCHOR RODS SHALL HAVE SUFFICIENT LENGTH TO PROVIDE THE MINIMUM EMBEDMENT SHOWN ON THE DRAWINGS, MEASURED FROM THE FACE OF THE CONCRETE TO THE NEAR FACE OF THE BOLT HEAD OR NUT, WITH ADEQUATE EXTENSION AS REQUIRED TO RECEIVE THE BASE PLATE WITH FULL THREAD PROJECTION FOR NUT INSTALLATION.
7. ANCHOR ROD INSTALLATION SHALL BE COORDINATED WITH REINFORCING AND FORMWORK.
8. LEVELING NUTS SHALL NOT BE USED EXCEPT AFTER EVALUATION BY THE CONTRACTOR'S ERECTION ENGINEER.
9. AFTER BASE INSTALLATION, ANCHOR ROD NUTS SHALL BE INSTALLED TO A SNUG-TIGHT CONDITION.
10. NO HEATING OR BENDING OF THE ANCHOR RODS IS PERMITTED.
11. HOLES IN THE BASE MATERIAL SHALL NOT BE ENLARGED BY BURNING.

1. ALL WOOD PLATES, LEDGERS AND BLOCKING IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) APPROVED PRESERVATIVE. ALTERNATIVELY PER IBC SECTION 2304.11, FOR SOME EXCEPTIONS, IMPERVIOUS MOISTURE BARRIERS MAY BE PROVIDED BETWEEN UNTREATED MEMBERS AND CONCRETE OR MASONRY.
2. ALL METAL FASTENERS IN CONTACT WITH TREATED WOOD SHALL BE GALVANIZED OR STAINLESS STEEL. WHEN USING GALVANIZED FASTENERS, THE CONTRACTOR SHALL COORDINATE THE GALVANIZATION PROCESS WITH THE CHEMICAL COMPOSITION OF THE WOOD TREATMENT.

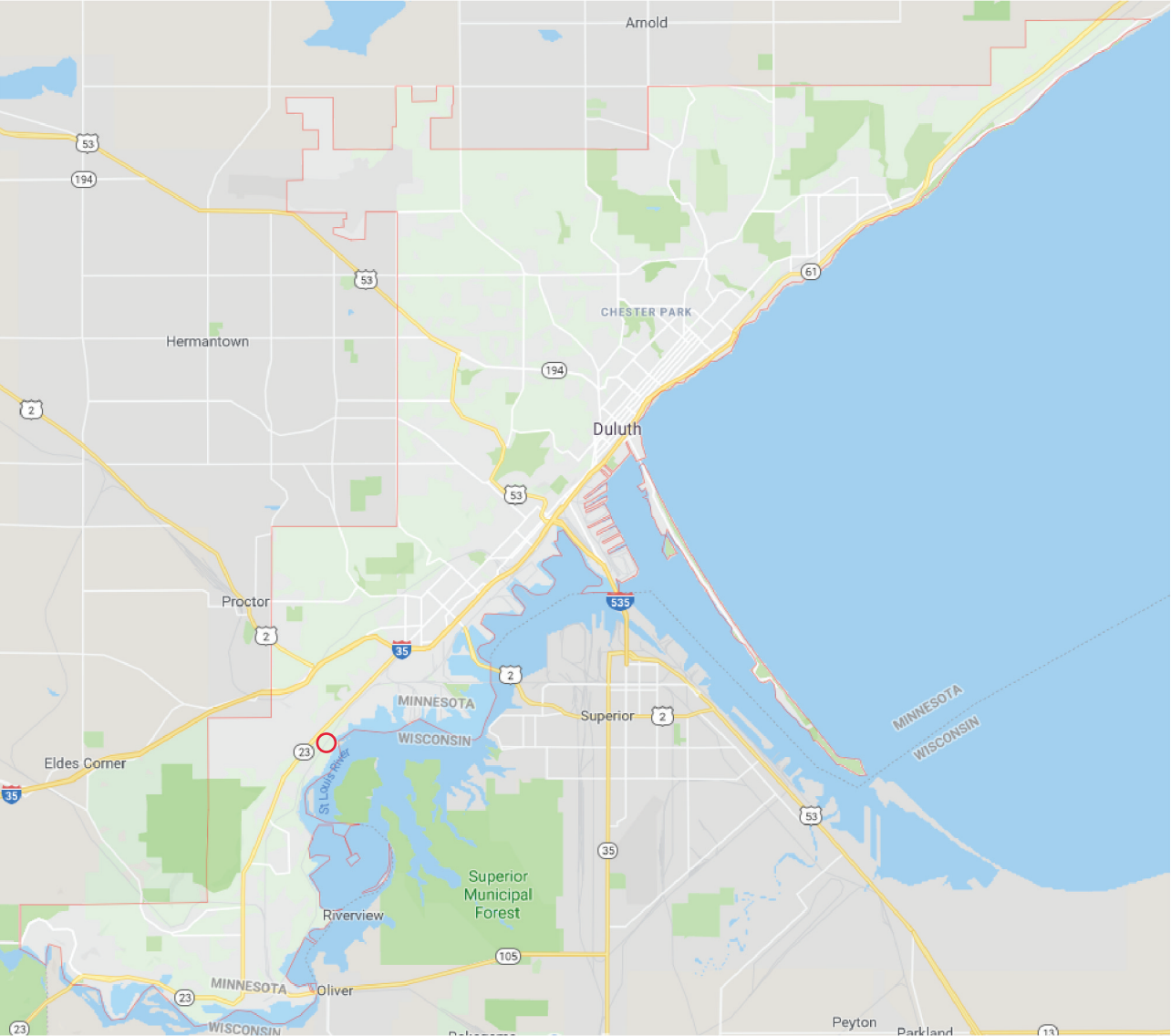
<p>I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Project Name:</p> <p>CITY OF DULUTH PARKS AND REC. EXTERIOR SIGNAGE FOUNDATIONS</p> </div> <div style="width: 50%; text-align: right;">  <p>Northland Consulting Engineers L.L.P.</p> <p>Structural, Civil and Forensic Engineering Services</p> <p>Voice: (218)727-5555 Fax: (218)727-1779 www.nce-engineers.com</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <p>NCE Project # 17-353</p> <p>Date: 6-22-2017</p> <p>Drawn By: ZKS</p> <p>Checked By: JEA</p> </div>
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SHEET TITLE / SIGN TYPE: FOOTING AND BASE-PLATE SPECIFICATIONS		DATE DRAWN: June 18, 2019	DATE REVISED:	SHEET #: 2
PROJECT NAME/NUMBER: 2019 Park Entrance Signage			 Hoisington Koegler Group Inc. 123 North 3rd St, Suite 100 Minneapolis, MN 55305 Phone: 612.338.0800 Fax: 612.338.6838	

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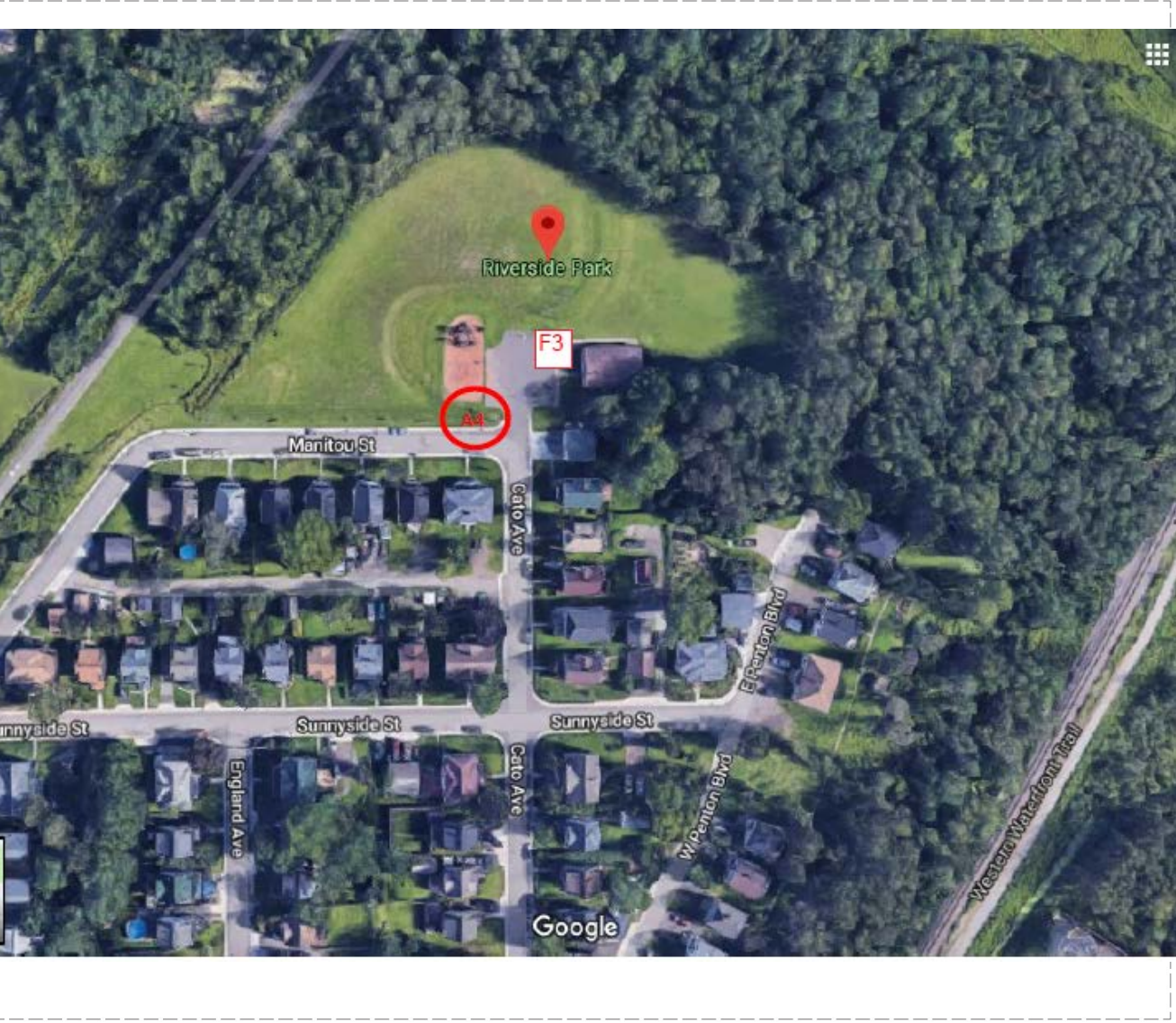
CITY-WIDE LOCATION MAP

Owner note:
Add project site locations to map of Duluth below



PROJECT AREA MAP(S)

Owner note:
Place project area maps with sign locations here



SIGN TOTALS:

Owner note: Indicate sign quantity by park name below

type	qnty.	location
A1	<input type="text"/>	
A2	<input type="text"/>	
A3	<input type="text"/>	
A4	1	Park entrance on Manitou Street
A5	<input type="text"/>	
B1	<input type="text"/>	
B2	<input type="text"/>	
B3	<input type="text"/>	
B4	<input type="text"/>	
B5	<input type="text"/>	
B6	<input type="text"/>	
B7	<input type="text"/>	
C1	<input type="text"/>	
C2	<input type="text"/>	
D1	<input type="text"/>	
E1	<input type="text"/>	
E2	<input type="text"/>	
E3	<input type="text"/>	
E4	<input type="text"/>	
E5	<input type="text"/>	
F1	<input type="text"/>	
F2	<input type="text"/>	
F3	1	mounted to existing Mutt Mitt Dispenser


GENERAL PROJECT NOTES:

- Owner to supply digital sign graphics, contractor responsible for printing and fabrication of all non-regulatory sign panels
- Printed sign graphic panels w/ frame should be centered front to back and top to bottom within wood structure
- Signs should be installed level and plumb
- Drawings show design intent, contractor to submit shop drawings for final approval, the signature of a licensed structural engineer (licensed in the state of Minnesota) may be required prior to submittal, see bid requirements
- Field conditions vary, depth of bedrock may require adjustment to shown footings. Contractor shall familiarize themselves with proposed sign locations prior to bidding. No compensation will be given for conditions that could be determined or anticipated by examination of the site.
- Owner to approve all field-staked sign locations, see project area maps for general sign location information
- See specifications for all materials and finishes
- All fasteners to be hot dipped galvanized Grade 5 or better, unless otherwise specified
- All wood and metal structures to be mechanically fastened together, unless otherwise specified
- Contractor responsible for calling for utility locates
- Contractor to restore the site to its original condition or better at project completion at no additional cost to owner

PROJECT ADDRESS(ES)

Owner note:
Place project area address(es) below

55 Cato Avenue, Duluth Minnesota 55808

SHEET TITLE / SIGN TYPE: SIGN PACKAGE COVER SHEET	DATE DRAWN: June 18, 2019	DATE REVISED:	SHEET #: 3
PROJECT NAME/NUMBER: 2019 Park Entrance Signage		 Hoisington Kogler Group Inc. 123 North 3rd St, Suite 100 Minneapolis, MN 55305 Phone: 612.338.0800 Fax: 612.338.6838	

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PARK INFORMATION GRAPHIC

PARK NAME:

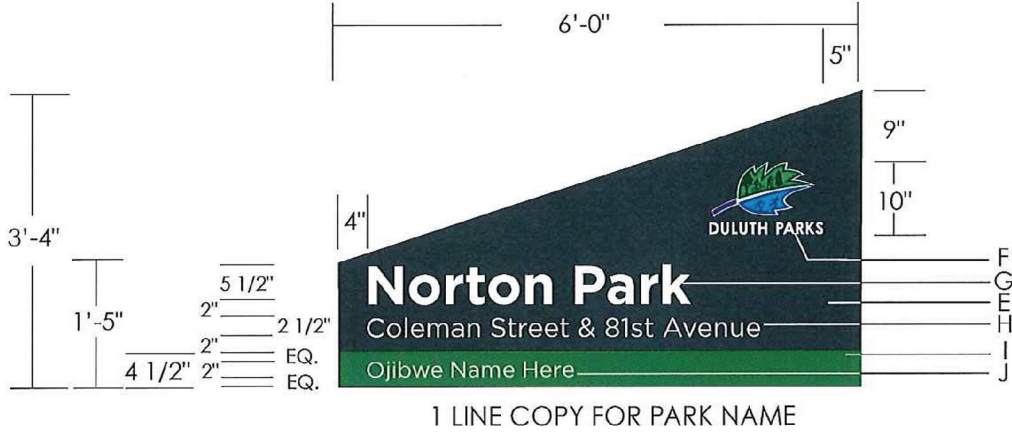
Riverside Park

PARK ADDRESS:

55 Cato Avenue

PARK OJIBWE NAME:

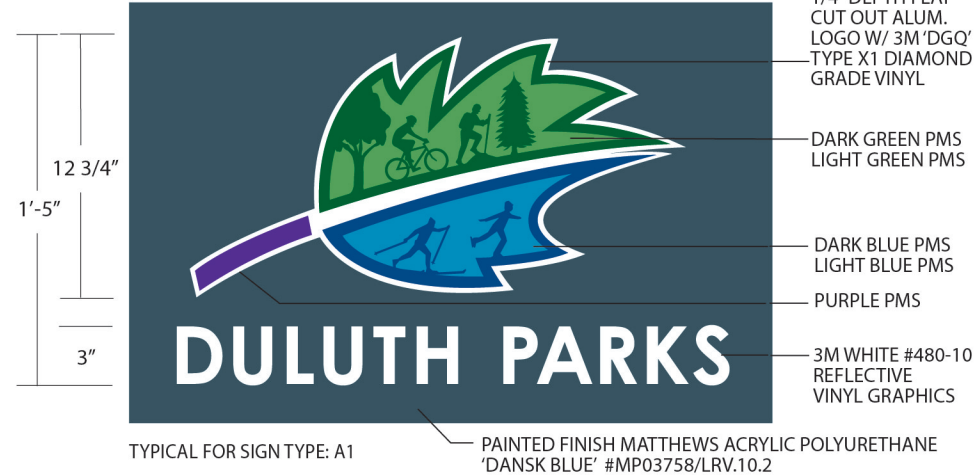
N/A



1 LINE COPY FOR PARK NAME

- F 1/4" DEPTH FLAT CUT OUT ALUMINUM LOGO WITH 3M 'DGQ' TYPE X1 DIAMOND GRADE VINYL, REFER TO DETAIL 1/005
- G 3M WHITE #480-10 REFLECTIVE VINYL GRAPHICS REFER TO 1.1-1.3 FOR TYPE FACE & LAYOUT
- H 3M WHITE #480-10 REFLECTIVE VINYL GRAPHICS REFER TO 1.1-1.3 FOR TYPE FACE & LAYOUT
- I STRIPE PAINTED FINISH MATTHEWS ACRYLIC POLYURETHANE 'KRYPTONITE GREEN' #MP25899/LRV21.7
- J 3M WHITE #480-10 REFLECTIVE VINYL GRAPHICS REFER TO 1.1-1.3 FOR TYPE FACE & LAYOUT

DULUTH PARKS LOGO GRAPHIC



MP COLOR CONVERSION CHART

Color Name	Matthew's Paint #	CMYK
Dansk Blue	MP3758	80, 50, 15, 30
Kryptonite Green	MP25899	80, 0, 100, 10
Durango Grey	MP25849	0, 0, 10, 50
Dark Slate	MP10269	67 56 53 30
Spring Green	MP26749	60, 0, 100, 0
Clay Basket Brown	MP25839	40, 40, 50, 20
Marina Blue	MP29320	85, 50, 0, 10
Bicycle Blue	MP25808	100, 60, 0, 10
Light Blue	MP25465	51, 30, 0, 33

PICTOGRAM ICONS GRAPHIC, PARK STAFF SELECT (CIRCLE) UP TO SEVEN

AMENITIES

BBQ grills

community center

restrooms

picnic shelter

picnic area

bike repair station

campground

WINTER TRAIL USAGE

cross-country skiing

ice skating

downhill skiing

snow-shoeing

snowmobiling

SUMMER ACTIVITIES

baseball/softball

soccer

volleyball

golf

basketball

tennis

disc golf

AQUATIC

fishing

beach access

swimming

canoeing/kayaking

boat launch ramp

mountain biking

equestrian

TRAIL USAGE

hiking

biking

climbing/bouldering

SPECIALTY USAGE

parking

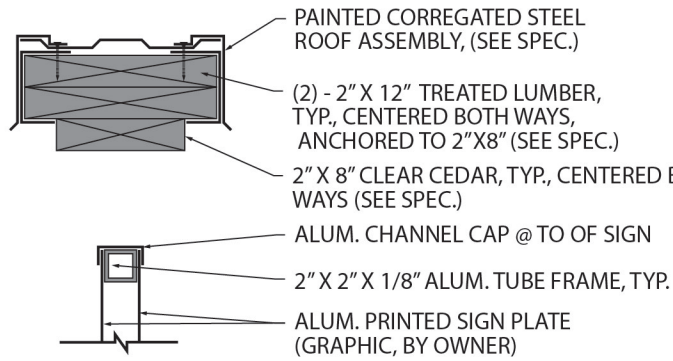


SHEET TITLE / SIGN TYPE: SIGN A4 - 2 SIDED NEIGHBORHOOD PARK I.D. SIGN	DATE DRAWN: June 18, 2019	DATE REVISED:	SHEET #: 4
PROJECT NAME/NUMBER: 2019 Park Entrance Signage		 Hoisington Koepler Group Inc. 123 North 3rd St, Suite 100 Minneapolis, MN 55305 Phone: 612.338.0800 Fax: 612.338.6838	

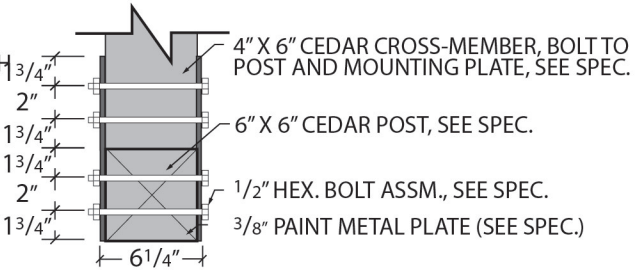
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GENERAL NOTES:
Contractor responsible for information on Project Cover sheet, Sign Package Specifications sheet, and Footing and Base Plate Specifications sheet

Drawings show design intent, submit shop drawings noting all materials, dimensions and fasteners for review and approval by owner or owner's representative.



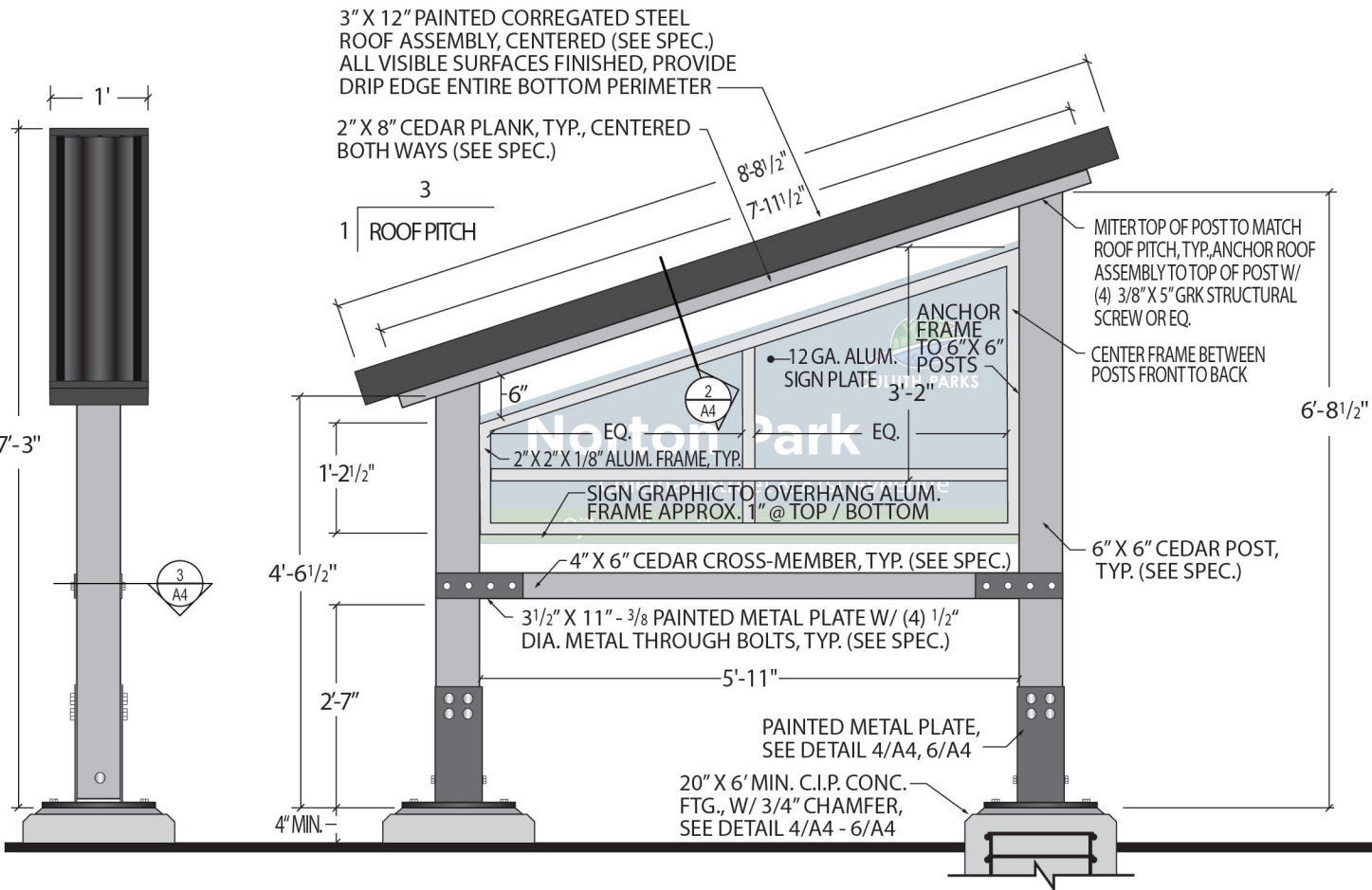
2
A4
SIGN A4 - ROOF ASSEMBLY SECTION
N.T.S.



3
A4
SIGN A4 - POST / CROSS-MEMBER JNT. SECTION
N.T.S.

END VIEW

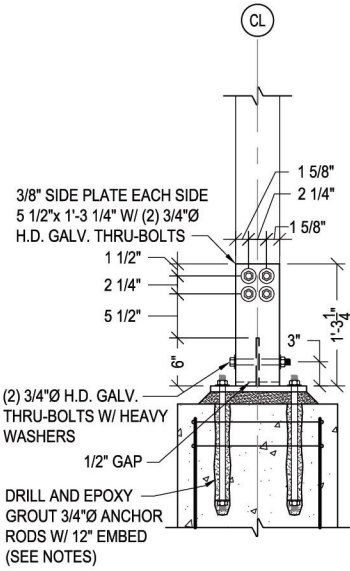
FRONT/BACK VIEW



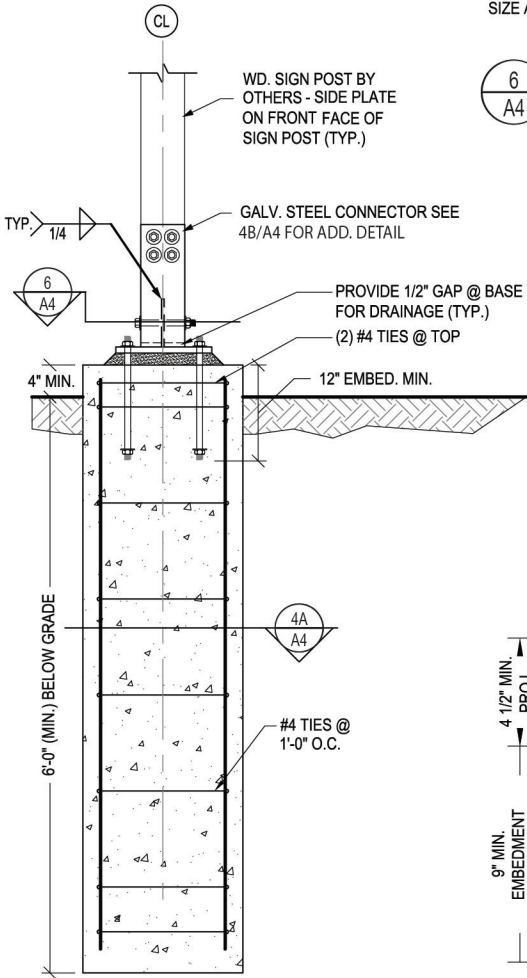
1
A4
SIGN A4 - ELEVATIONS
N.T.S.

GENERAL NOTES:

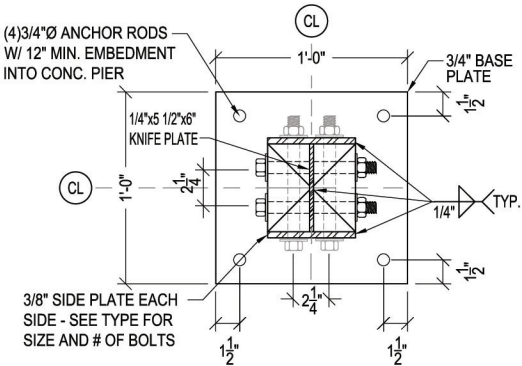
1. ALL STEEL USED SHALL BE GRADE ASTM A36, Fy=36 KSI WITH GALV. FINISH FOR EXTERIOR USE.
2. ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 H.D. GALVANIZED WITH CLASS 1A THREADS.
3. CONCRETE SHALL HAVE COMPRESSIVE STRENGTH Fc' = 4000 PSI.



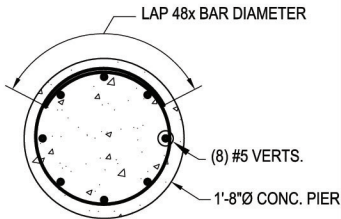
4B
A4
SIGN A4 - TYP. BASE SEC.
N.T.S.



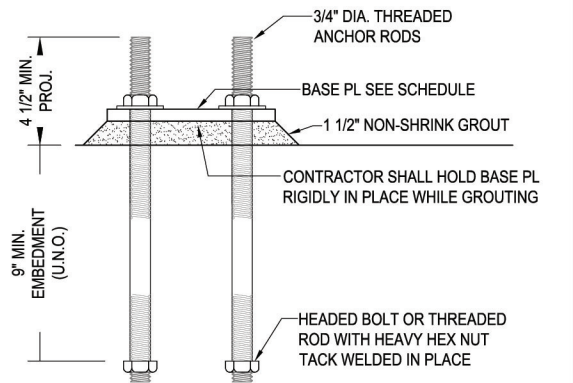
4
A4
SIGN A4 - TYP. FTG. SEC.
N.T.S.



6
A4
POST-BASE PLATE DETAIL
N.T.S.



4A
A4
CONC. PIER DETAIL
N.T.S.



5
A4
TYP. ANCHOR ROD DETAIL
N.T.S.

ICD Project # 17383
Date: 6/22/2017
Drawn By: ZMS
Checked By: JEA

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.

Project Name:
**CITY OF DULUTH PARKS AND REC.
EXTERIOR SIGNAGE FOUNDATIONS**

Northland
Consulting Engineers L.L.P.
Structural, Civil and Forensic Engineering Services
Voice: (218) 727-5695
Fax: (218) 727-7779
www.nce-engineers.com

SHEET TITLE / SIGN TYPE:

SIGN A4 - 2 SIDED NEIGHBORHOOD PARK IDENTIFICATION SIGN

DATE DRAWN:

June 18, 2019

DATE REVISED:

SHEET #:

5

PROJECT NAME/NUMBER:

2019 Park Entrance Signage

HKgi Hoisington Koegler Group Inc.
123 North 3rd St, Suite 100
Minneapolis, MN 55305
Phone: 612.338.0800
Fax: 612.338.6838

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PARK DEPT. STAFF TO COMPLETE

SIGN TYPE CODE	QUANTITY
F3.A	
F3.B	
F3.C	
F3.D	
F3.E	
F3.F	
F3.Fa	
F3.G	
F3.H	
F3.I	
F3.J	
F3.K	
F3.L	
F3.M	
F3.N	
F3.O	
F3.P	
F3.Q	
F3.R	
F3.S	
F3.T	1
F3.U	
F3.V	
F3.W	
F3.X	
F3.Y	
F3.Z	
F3.AA	
F3.BB	

F3.A

F3.B

F3.C

F3.D

F3.E

F3.F

F3.G

F3.H

F3.J

F3.A F3.B F3.C F3.D F3.E F3.F

F3.G F3.H F3.J

F3.A F3.B F3.C F3.D F3.E F3.F

F3.Fa

F3.K

F3.L

F3.M

F3.N

F3.P

F3.Q

F3.K F3.L F3.M F3.N F3.P F3.Q

F3.R

F3.S

F3.T

F3.U

F3.R F3.S F3.T F3.U

SECONDARY ENTRANCE SIGNS

“WHEN SNOW IS ON THE GROUND”

F3.V

F3.W

F3.X

F3.Y

F3.Z

F3.AA

F3.BB

F3.V F3.W F3.X F3.Y F3.Z F3.AA F3.BB



Existing



Existing



F3.T New Design w/ added International Pictograms



CITY OF DULUTH
PARKS AND
RECREATION

REGULATORY
& RULES



Hoisington
Koehler
Group Inc.

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from VISUAL
Communications, Inc.

Project: 16.03.02
Date: 05/24/16
Rev: 09/30/16
10/24/16
11/17/16
01/16/17
03/10/17 CC



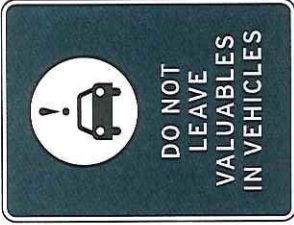
F3.T New Design w/ added International Pictograms



F3.A



B



C



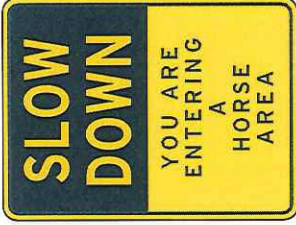
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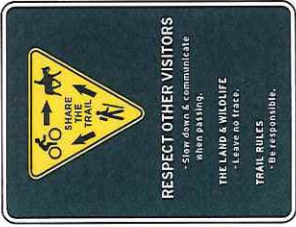
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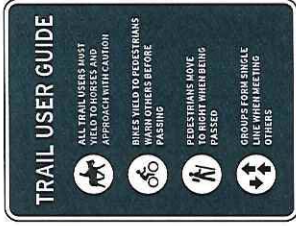
F



G



H



J



K



L



M



N



P



Q



T



CITY OF DULUTH
PARKS AND
RECREATION

REGULATORY
& RULES



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Project: 16.03.02
Date: 05/24/16
Rev: 09/30/16
10/24/16
11/17/16
01/16/17
03/10/17 CC

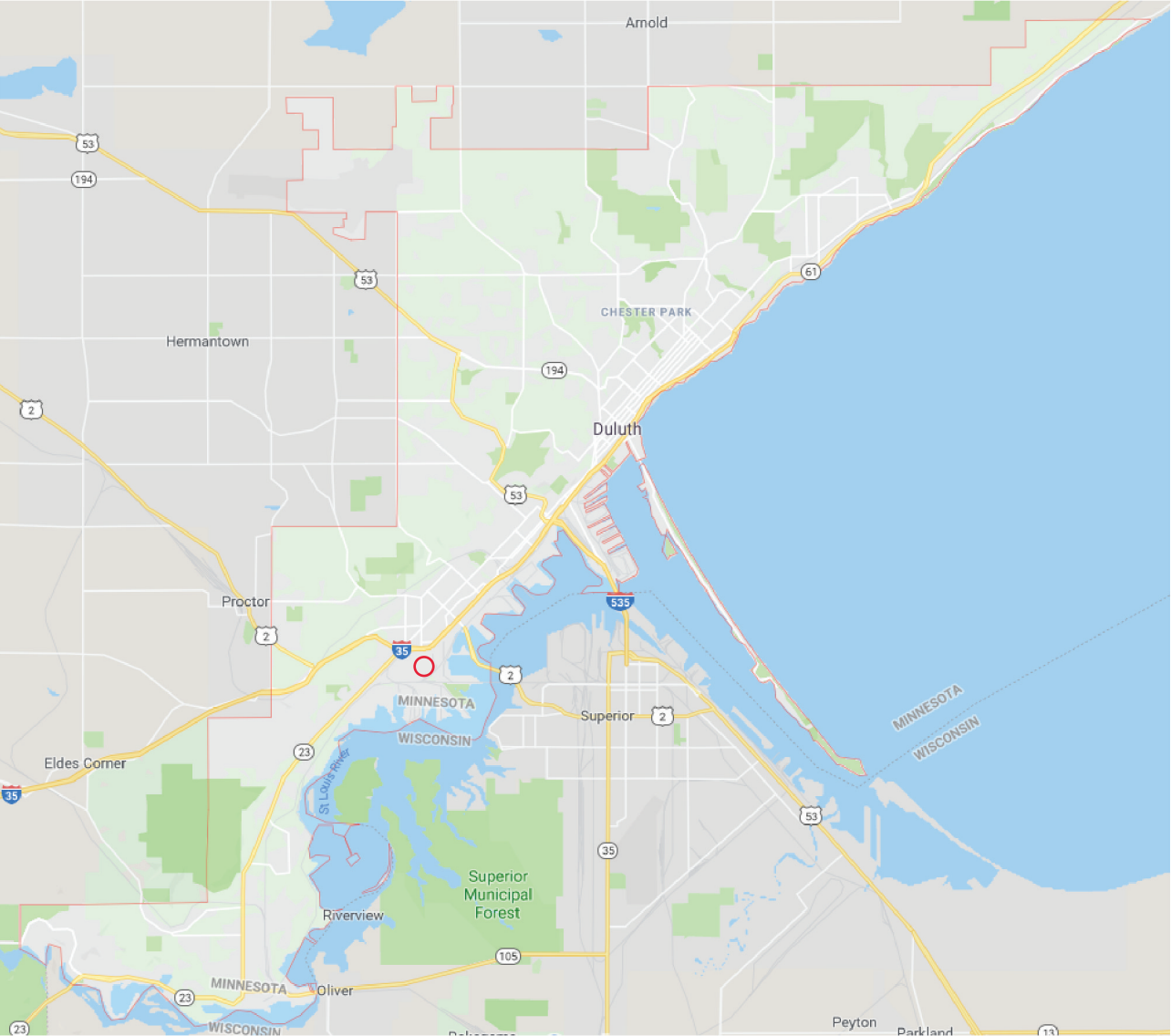


SEE RETROFIT SIGN SAMPLE
ON PAGE 5

F3.S Hartley Park Trails, Rules & Reminders

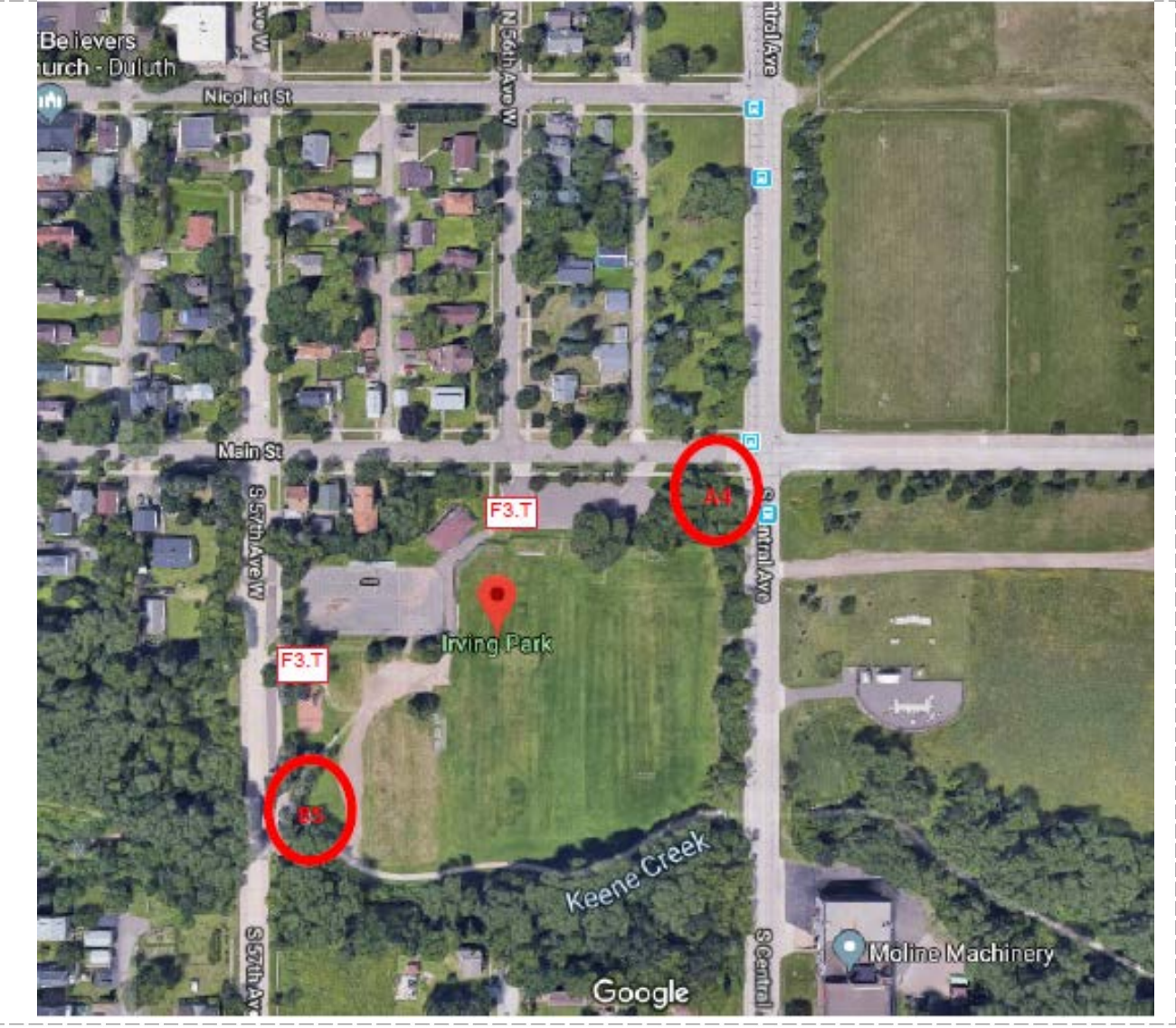
CITY-WIDE LOCATION MAP

Owner note:
Add project site locations to map of Duluth below



PROJECT AREA MAP(S)

Owner note:
Place project area maps with sign locations here



SIGN TOTALS:

Owner note: Indicate sign quantity by park name below

type	qnty.	location
A1	<input type="text"/>	
A2	<input type="text"/>	
A3	<input type="text"/>	
A4	1	corner of S Central Avenue and Main Street
A5	<input type="text"/>	
B1	<input type="text"/>	
B2	<input type="text"/>	
B3	<input type="text"/>	
B4	<input type="text"/>	
B5	1	existing trailhead off S 57th Ave W
B6	<input type="text"/>	
B7	<input type="text"/>	
C1	<input type="text"/>	
C2	<input type="text"/>	
D1	<input type="text"/>	
E1	<input type="text"/>	
E2	<input type="text"/>	
E3	<input type="text"/>	
E4	<input type="text"/>	
E5	<input type="text"/>	
F1	<input type="text"/>	
F2	<input type="text"/>	
F3	2	Main parking lot & secondary parking off S 57th Ave W


GENERAL PROJECT NOTES:

- Owner to supply digital sign graphics, contractor responsible for printing and fabrication of all non-regulatory sign panels
- Printed sign graphic panels w/ frame should be centered front to back and top to bottom within wood structure
- Signs should be installed level and plumb
- Drawings show design intent, contractor to submit shop drawings for final approval, the signature of a licensed structural engineer (licensed in the state of Minnesota) may be required prior to submittal, see bid requirements
- Field conditions vary, depth of bedrock may require adjustment to shown footings. Contractor shall familiarize themselves with proposed sign locations prior to bidding. No compensation will be given for conditions that could be determined or anticipated by examination of the site.
- Owner to approve all field-staked sign locations, see project area maps for general sign location information
- See specifications for all materials and finishes
- All fasteners to be hot dipped galvanized Grade 5 or better, unless otherwise specified
- All wood and metal structures to be mechanically fastened together, unless otherwise specified
- Contractor responsible for calling for utility locates
- Contractor to restore the site to its original condition or better at project completion at no additional cost to owner

PROJECT ADDRESS(ES)

Owner note:
Place project area address(es) below

20 South 57th Avenue West, Duluth MN 55807

SHEET TITLE / SIGN TYPE: SIGN PACKAGE COVER SHEET	DATE DRAWN: June 18, 2019	DATE REVISED:	SHEET #: 10
PROJECT NAME/NUMBER: 2019 Park Entrance Signage	 Hoisington Koegler Group Inc. 123 North 3rd St, Suite 100 Minneapolis, MN 55305 Phone: 612.338.0800 Fax: 612.338.6838		

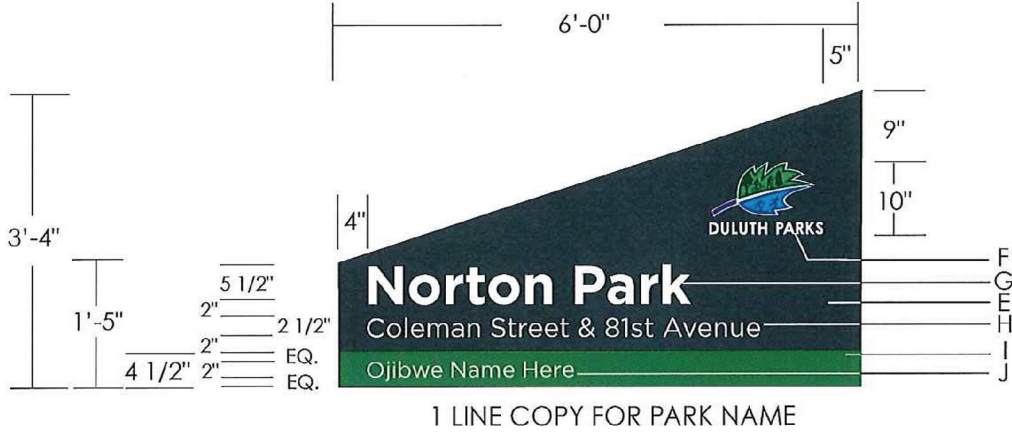
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PARK INFORMATION GRAPHIC

PARK NAME:
Irving Park

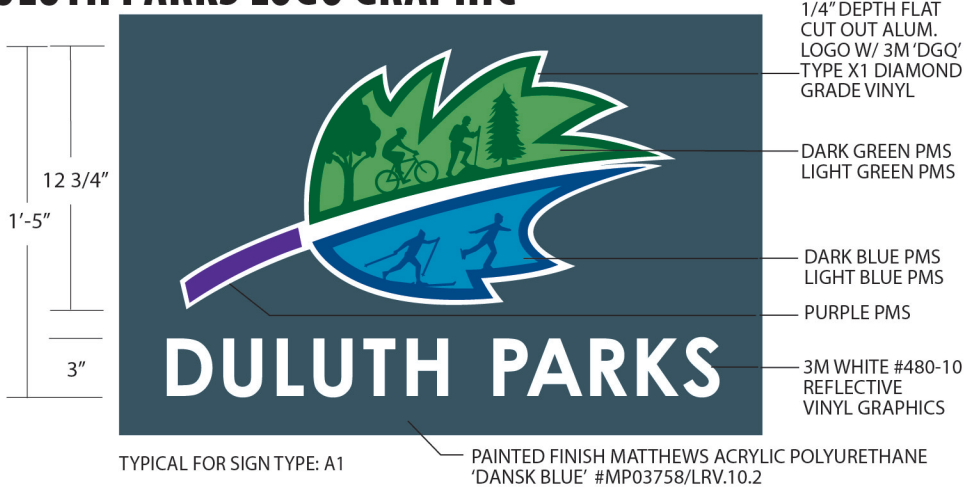
PARK ADDRESS:
20 South 57th Avenue West

PARK OJIBWE NAME:
N/A



- F 1/4" DEPTH FLAT CUT OUT ALUMINUM LOGO WITH 3M 'DGQ' TYPE X1 DIAMOND GRADE VINYL, REFER TO DETAIL 1/005
- G 3M WHITE #480-10 REFLECTIVE VINYL GRAPHICS REFER TO 1.1-1.3 FOR TYPE FACE & LAYOUT
- H 3M WHITE #480-10 REFLECTIVE VINYL GRAPHICS REFER TO 1.1-1.3 FOR TYPE FACE & LAYOUT
- I STRIPE PAINTED FINISH MATTHEWS ACRYLIC POLYURETHANE 'KRYPTONITE GREEN' #MP25899/LRV21.7
- J 3M WHITE #480-10 REFLECTIVE VINYL GRAPHICS REFER TO 1.1-1.3 FOR TYPE FACE & LAYOUT

DULUTH PARKS LOGO GRAPHIC



MP COLOR CONVERSION CHART

Color Name	Matthew's Paint #	CMYK
Dansk Blue	MP3758	80, 50, 15, 30
Kryptonite Green	MP25899	80, 0, 100, 10
Durango Grey	MP25849	0, 0, 10, 50
Dark Slate	MP10269	67 56 53 30
Spring Green	MP26749	60, 0, 100, 0
Clay Basket Brown	MP25839	40, 40, 50, 20
Marina Blue	MP29320	85, 50, 0, 10
Bicycle Blue	MP25808	100, 60, 0, 10
Light Blue	MP25465	51, 30, 0, 33

PICTOGRAM ICONS GRAPHIC, PARK STAFF SELECT (CIRCLE) UP TO SEVEN

AMENITIES
BBQ grills, community center, restrooms, picnic shelter, picnic area, bike repair station, campground

WINTER TRAIL USAGE
cross-country skiing, ice skating, downhill skiing, snow-shoeing, snowmobiling


SUMMER ACTIVITIES
skate park, dog walking/dog park, playground, birding, baseball/softball, soccer, volleyball, golf, basketball, tennis, disc golf

AQUATIC
fishing, beach access, swimming, canoeing/kayaking, boat launch ramp, mountain biking, equestrian

TRAIL USAGE
hiking, biking, climbing/bouldering

SPECIALTY USAGE
parking

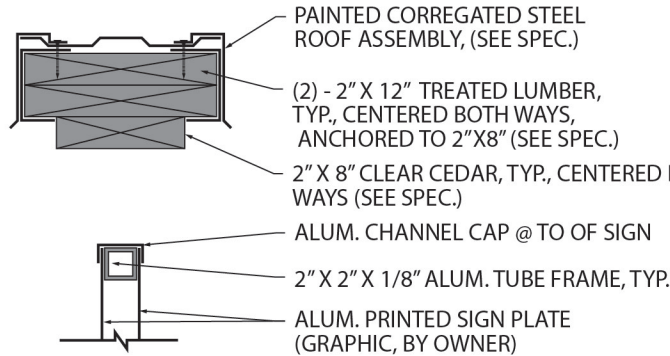


SHEET TITLE / SIGN TYPE: SIGN A4 - 2 SIDED NEIGHBORHOOD PARK I.D. SIGN	DATE DRAWN: June 18, 2019	DATE REVISED:	SHEET #: 11
PROJECT NAME/NUMBER: 2019 Park Entrance Signage		 Hoisington Koepler Group Inc. 123 North 3rd St, Suite 100 Minneapolis, MN 55305 Phone: 612.338.0800 Fax: 612.338.6838	

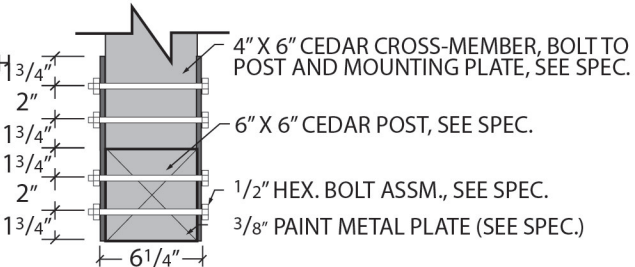
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GENERAL NOTES:
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Drawings show design intent, submit shop drawings noting all materials, dimensions and fasteners for review and approval by owner or owner's representative.



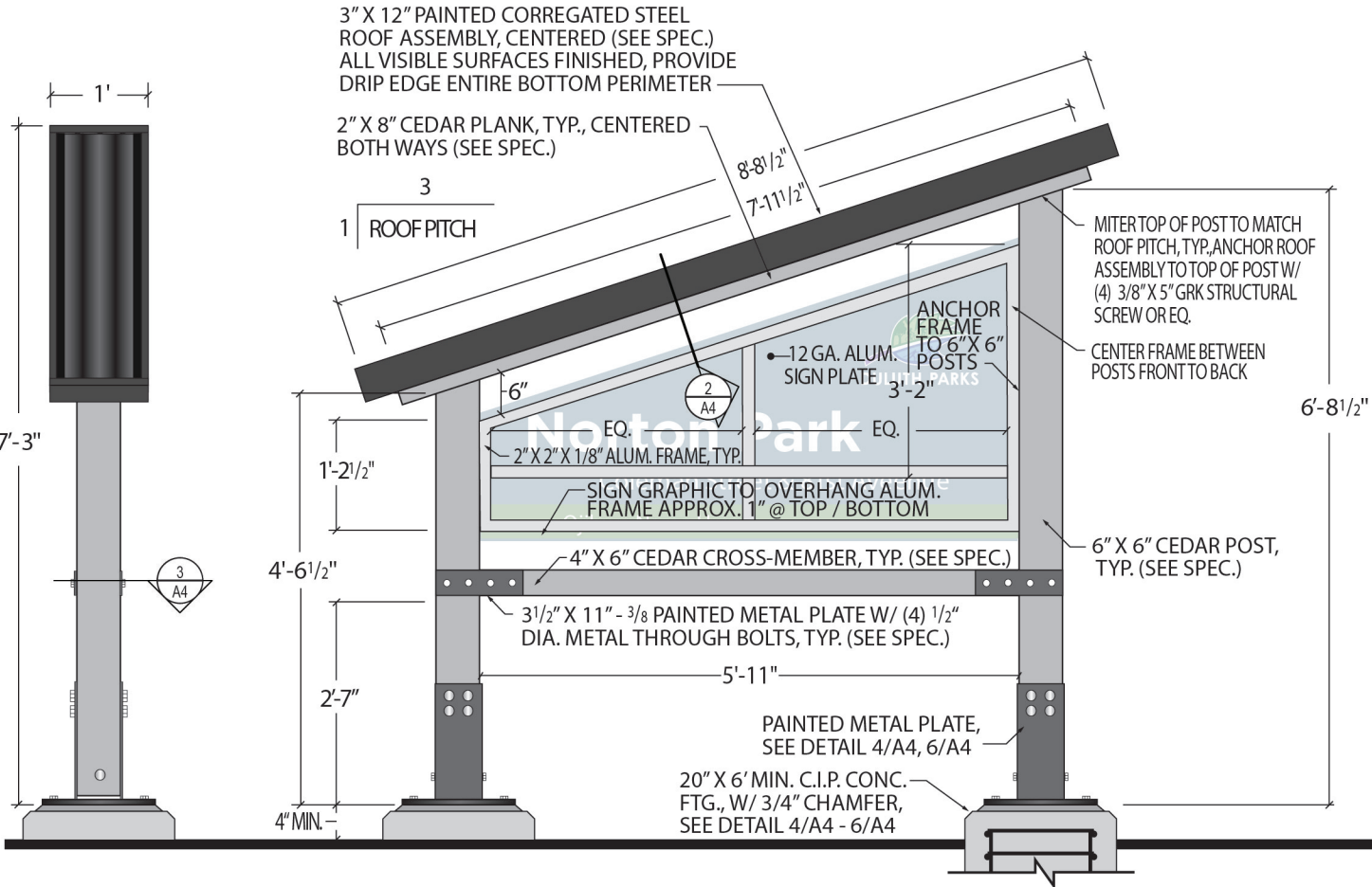
2
A4
SIGN A4 - ROOF ASSEMBLY SECTION
N.T.S.



3
A4
SIGN A4 - POST / CROSS-MEMBER JNT. SECTION
N.T.S.

END VIEW

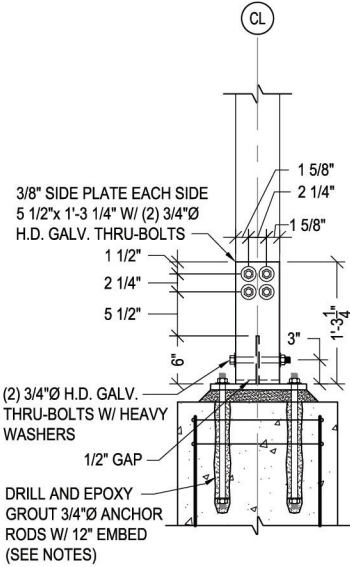
FRONT/BACK VIEW



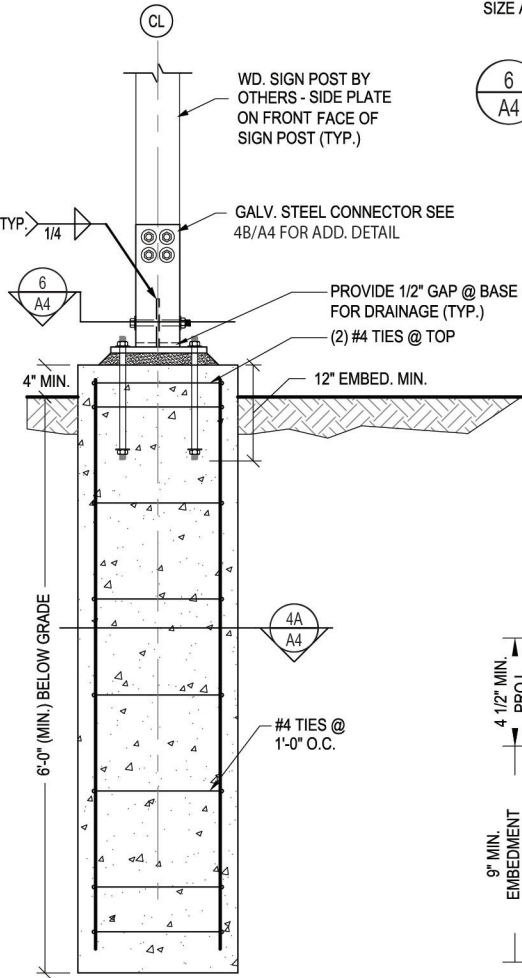
1
A4
SIGN A4 - ELEVATIONS
N.T.S.

GENERAL NOTES:

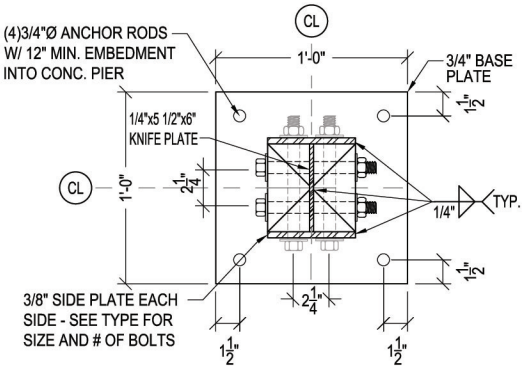
- ALL STEEL USED SHALL BE GRADE ASTM A36, Fy=36 KSI WITH GALV. FINISH FOR EXTERIOR USE.
- ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 H.D. GALVANIZED WITH CLASS 1A THREADS.
- CONCRETE SHALL HAVE COMPRESSIVE STRENGTH Fc' = 4000 PSI.



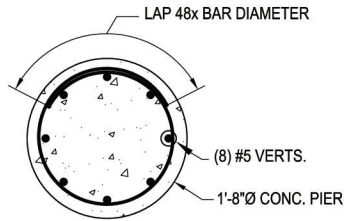
4B
A4
SIGN A4 - TYP. BASE SEC.
N.T.S.



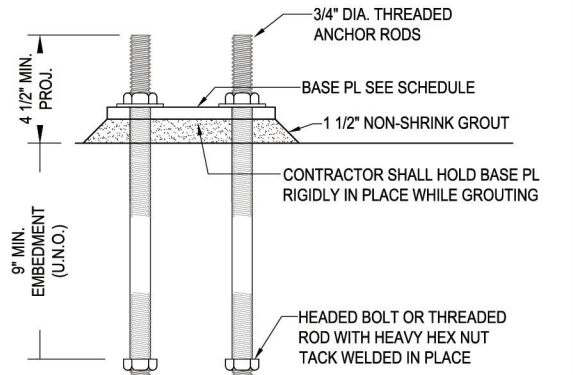
4
A4
SIGN A4 - TYP. FTG. SEC.
N.T.S.



6
A4
POST-BASE PLATE DETAIL
N.T.S.



4A
A4
CONC. PIER DETAIL
N.T.S.



5
A4
TYP. ANCHOR ROD DETAIL
N.T.S.

ICD Project # 17383
Date: 6/22/2017
Drawn By: ZKS
Checked By: JEA

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

Project Name:
**CITY OF DULUTH PARKS AND REC.
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SHEET TITLE / SIGN TYPE:

SIGN A4 - 2 SIDED NEIGHBORHOOD PARK IDENTIFICATION SIGN

DATE DRAWN:

June 18, 2019

DATE REVISED:

SHEET #:

12

PROJECT NAME/NUMBER:

2019 Park Entrance Signage

HKgi Hoisington Koegler Group Inc.
123 North 3rd St, Suite 100
Minneapolis, MN 55305
Phone: 612.338.0800
Fax: 612.338.6838

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PARK INFORMATION GRAPHIC

PARK NAME:

Irving Park

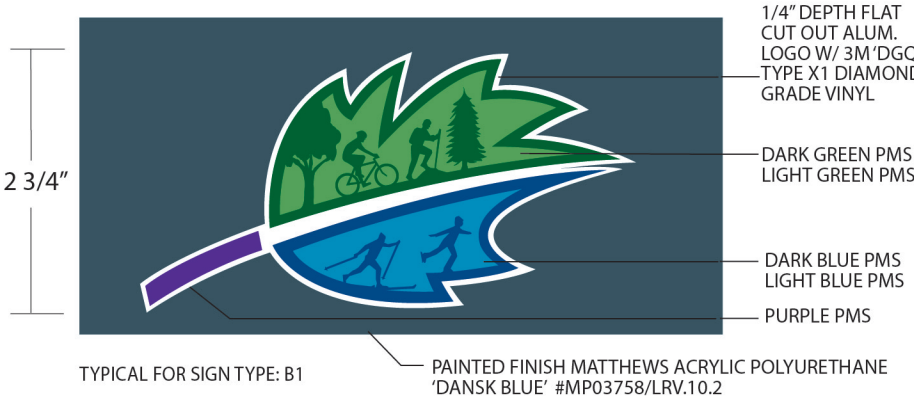
PARK ADDRESS:

20 South 57th Avenue West

PARK OJIBWE NAME:

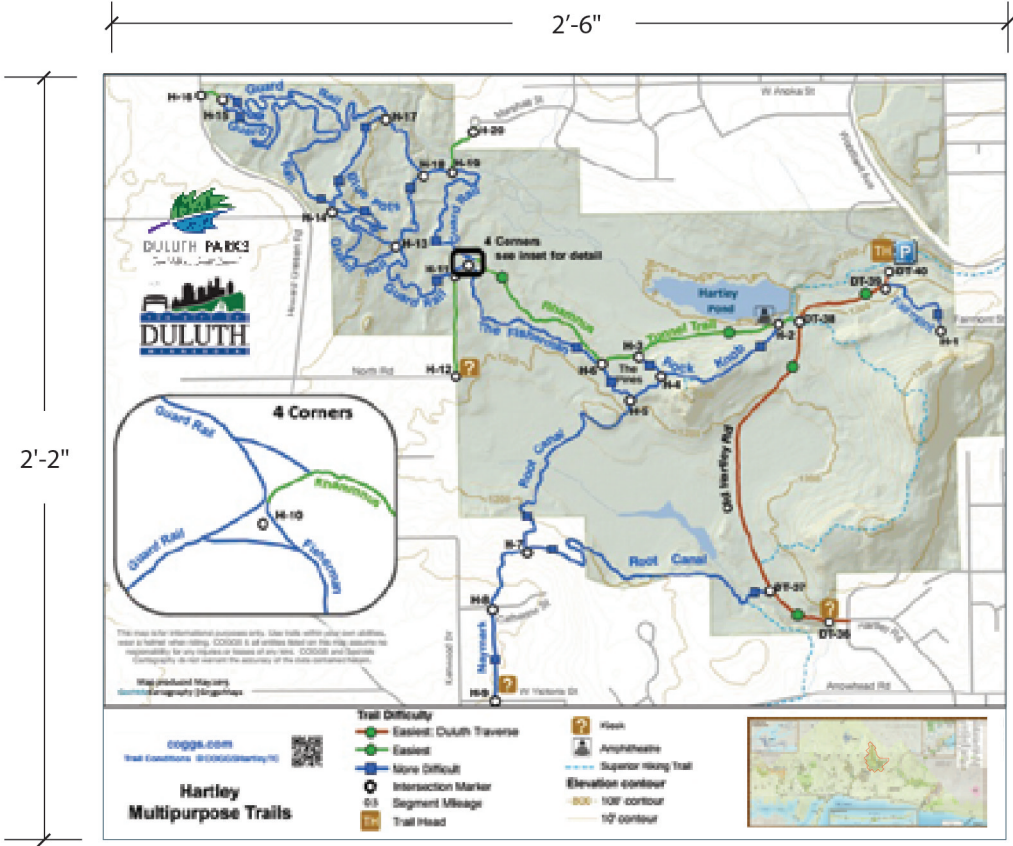
N/A

DULUTH PARKS LOGO GRAPHIC



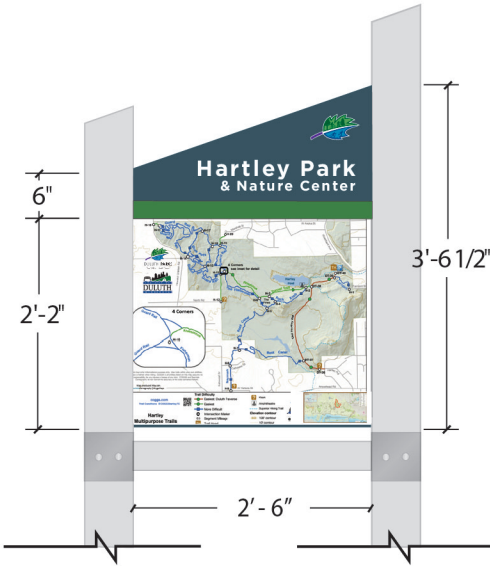
MP COLOR CONVERSION CHART

Color Name	Matthew's Paint #	CMYK
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Kryptonite Green	MP25899	80, 0, 100, 10
Durango Grey	MP25849	0, 0, 10, 50
Dark Slate	MP10269	67 56 53 30
Spring Green	MP26749	60, 0, 100, 0
Clay Basket Brown	MP25839	40, 40, 50, 20
Marina Blue	MP29320	85, 50, 0, 10
Bicycle Blue	MP25808	100, 60, 0, 10
Light Blue	MP25465	51, 30, 0, 33



1/8" GE' LEXAN DIGITALLY PRINTED MAP SECOND SURFACE DECORATED W/ WHITE VINYL FLOOD PROTECTION COATING (FINAL MAP U.S.C.)

SIGN GRAPHIC KEY

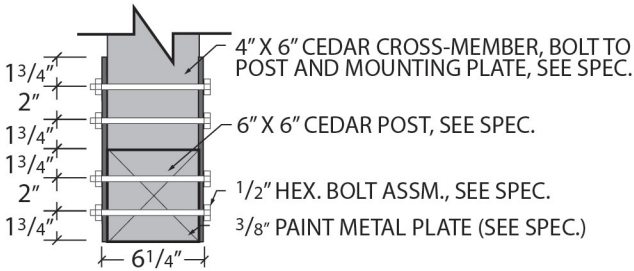


SHEET TITLE / SIGN TYPE: SIGN B5 - MAP / EMERGENCY SIGN	DATE DRAWN: June 18, 2019	DATE REVISED:	SHEET #: 13
PROJECT NAME/NUMBER: 2019 Park Entrance Signage		HK gi Hoisington Koegler Group Inc. 123 North 3rd St, Suite 100 Minneapolis, MN 55305 Phone: 612.338.0800 Fax: 612.338.6838	

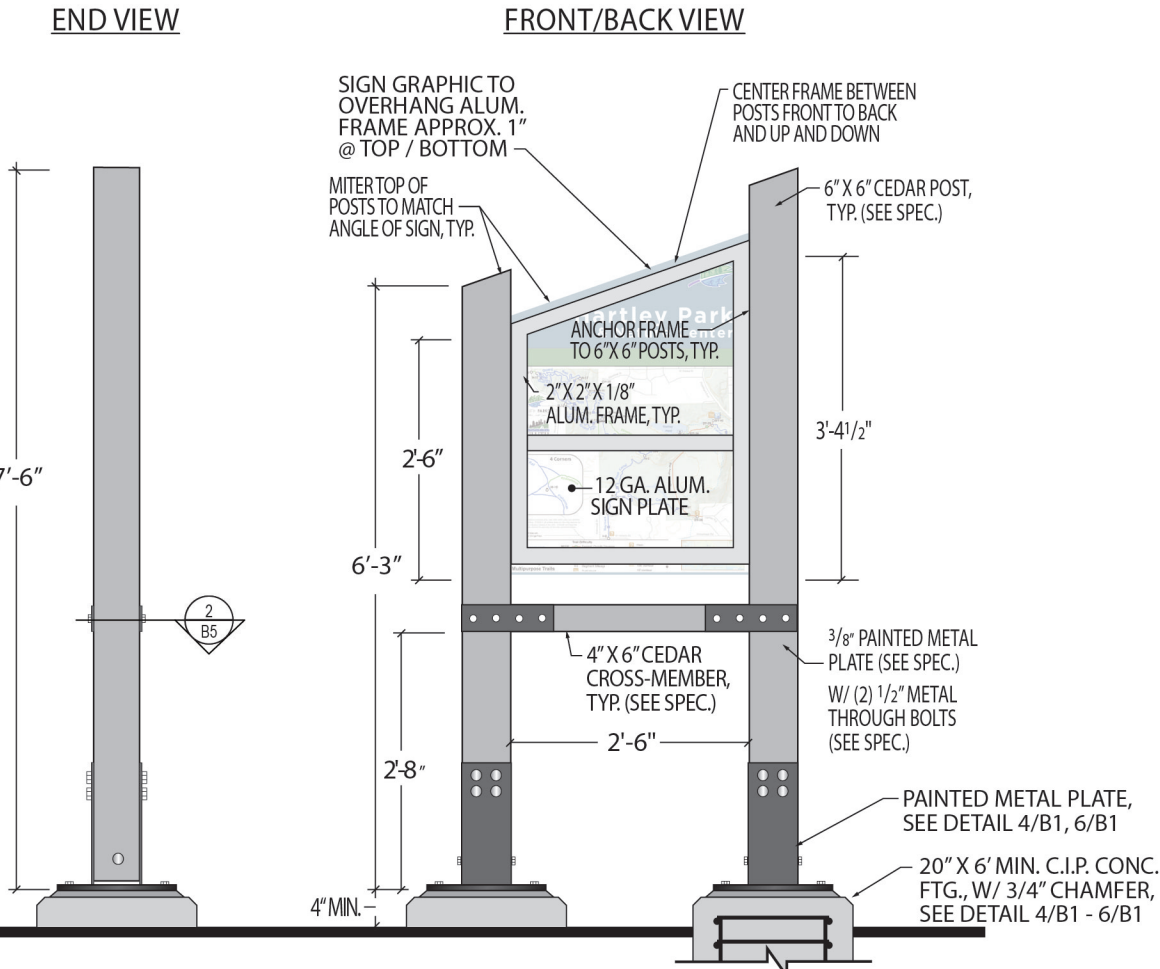
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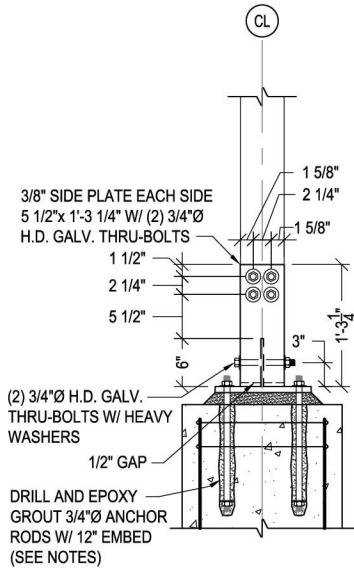


2
B5
SIGN B5 - POST / CROSS-MEMBER JNT. SECTION
N.T.S.

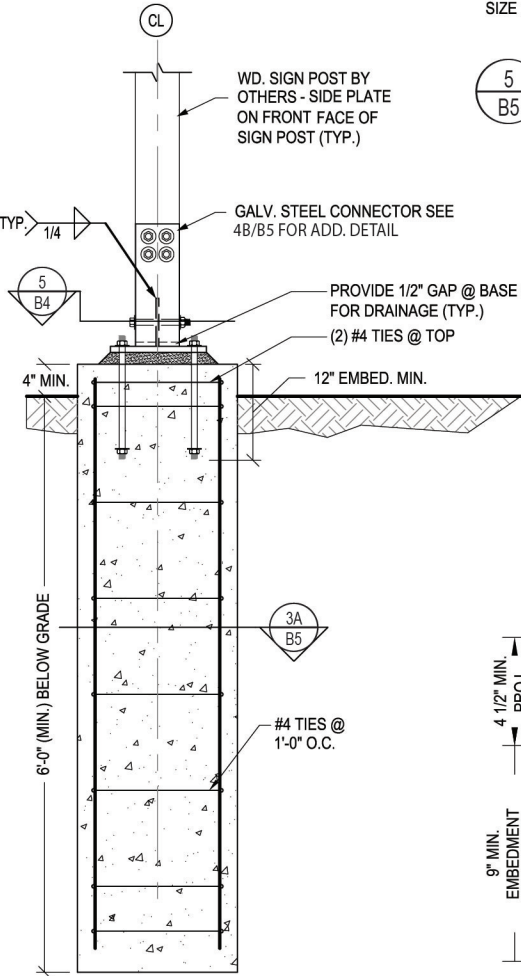


1
B5
SIGN B5 - ELEVATIONS
N.T.S.

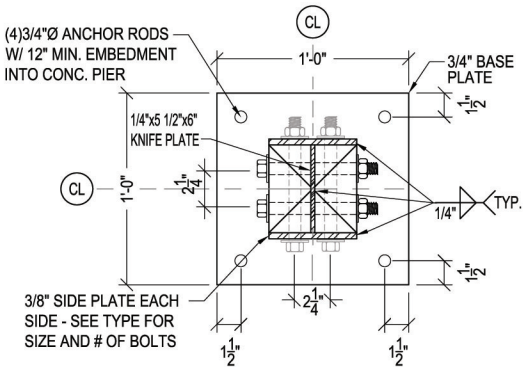
- GENERAL NOTES:**
- ALL STEEL USED SHALL BE GRADE ASTM A36, Fy=36 KSI WITH GALV. FINISH FOR EXTERIOR USE.
 - ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 H.D. GALVANIZED WITH CLASS 1A THREADS.
 - CONCRETE SHALL HAVE COMPRESSIVE STRENGTH Fc' = 4000 PSI.



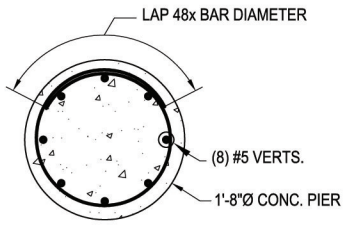
4B
B5
SIGN B5 - TYP. BASE SEC.
N.T.S.



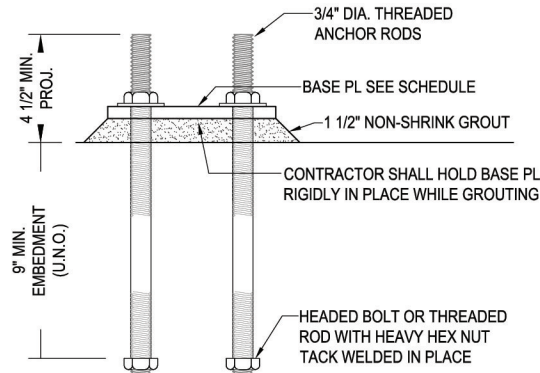
4
B5
SIGN B5 - TYP. FTG. SEC.
N.T.S.



5
B5
POST-BASE PLATE DETAIL
N.T.S.



3A
B5
CONC. PIER DETAIL
N.T.S.



4
B5
TYP. ANCHOR ROD DETAIL
N.T.S.

Checked By: JEA
Date: 6-22-2017
Drawn By: ZMS

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.

Project Name:

CITY OF DULUTH PARKS AND REC.
EXTERIOR SIGNAGE FOUNDATIONS

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Consulting Engineers L.L.P.

Structural, Civil and Forensic Engineering Services
Voice: (218) 727-2695
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www.nce-engineers.com

SHEET TITLE / SIGN TYPE:

SIGN B5 - 1 SIDED MAP EMERGENCY SIGN

DATE DRAWN:

June 18, 2019

DATE REVISED:

SHEET #:

14

PROJECT NAME/NUMBER:

2019 Park Entrance Signage

HK
gi
Hoisington Koegler Group Inc.
123 North 3rd St, Suite 100
Minneapolis, MN 55305
Phone: 612.338.0800
Fax: 612.338.6838

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PARK DEPT. STAFF TO COMPLETE

SIGN TYPE CODE	QUANTITY
F3.A	
F3.B	
F3.C	
F3.D	
F3.E	
F3.F	
F3.Fa	
F3.G	
F3.H	
F3.I	
F3.J	
F3.K	
F3.L	
F3.M	
F3.N	
F3.O	
F3.P	
F3.Q	
F3.R	
F3.S	
F3.T	2
F3.U	
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F3.W	
F3.X	
F3.Y	
F3.Z	
F3.AA	
F3.BB	

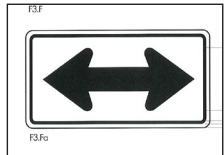


F3.A F3.B F3.C F3.D F3.E F3.F

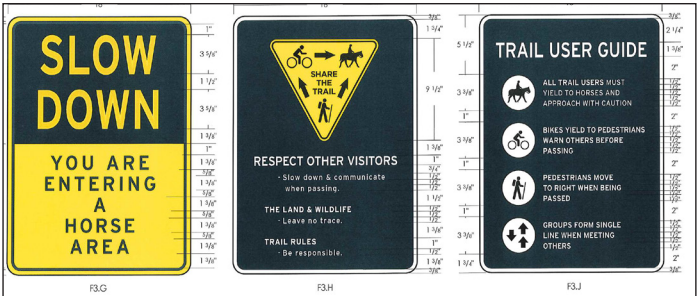
NOTE: SEE ATTACHED SHEETS
FOR ALL INDIVIDUAL SIGN
PLATE DIMENSIONS



F3.K F3.L F3.M



F3.Fa



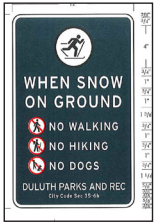
F3.G F3.H F3.J



F3.N F3.P F3.Q



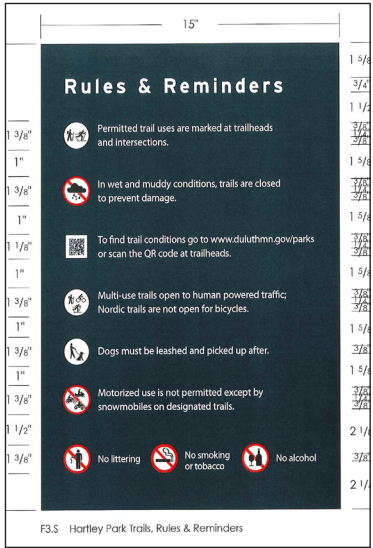
36" x 24" 18" x 24"



12" x 18"

F3.R

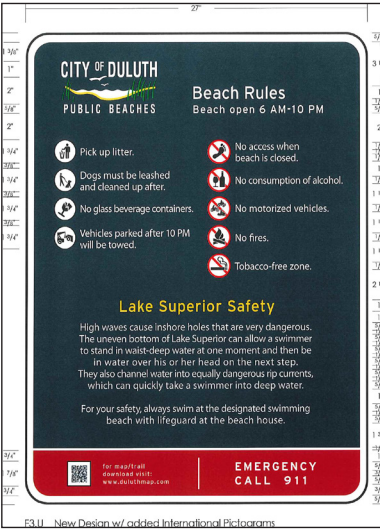
SECONDARY ENTRANCE SIGNS
“WHEN SNOW IS ON THE GROUND”



F3.S



F3.T



F3.U



F3.V F3.W F3.X



F3.Y F3.Z F3.AA



F3.BB



Existing



Existing



F3.T New Design w/ added International Pictograms



CITY OF DULUTH
PARKS AND
RECREATION

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& RULES



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The release of this
design in whole or in
part shall require sole
written authorization
from VISUAL
Communications, Inc.

Project: 16.03.02
Date: 05/24/16
Rev: 09/30/16
10/24/16
11/17/16
01/16/17
03/10/17 CC



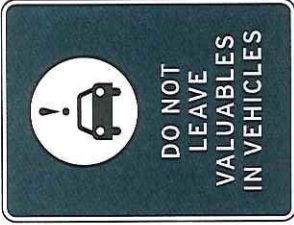
F3.T New Design w/ added International Pictograms



F3.A



B



C



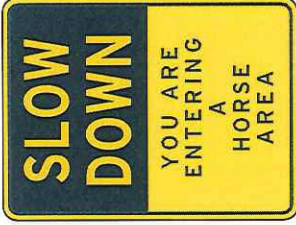
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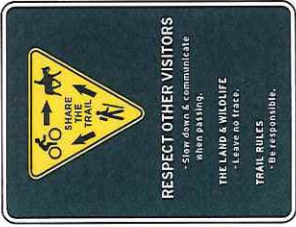
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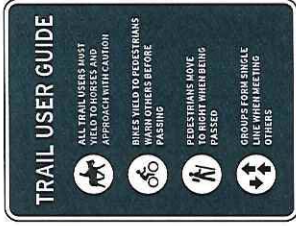
F



G



H



J



K



L



M



N



P



Q



T



CITY OF DULUTH
PARKS AND
RECREATION

REGULATORY
& RULES



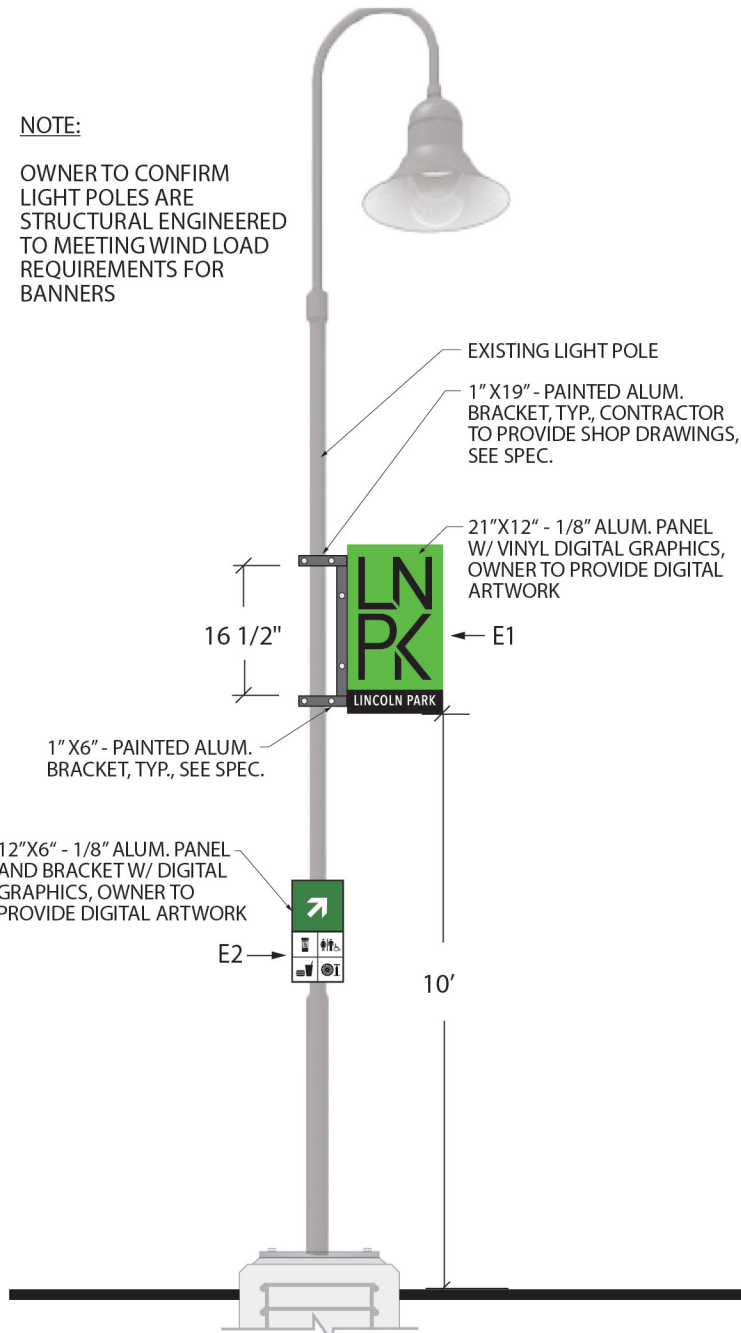
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Project: 16.03.02
Date: 05/24/16
Rev: 09/30/16
10/24/16
11/17/16
01/16/17
03/10/17 CC

GENERAL NOTES:
Contractor responsible for information on Project Cover sheet, Sign Package Specifications sheet, and Footing and Base Plate Specifications sheet

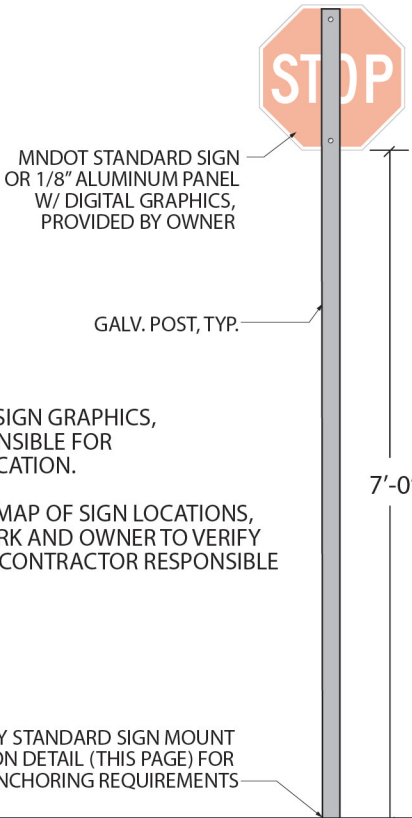
Drawings show design intent, submit shop drawings noting all materials, dimensions and fasteners for review and approval by owner or owner's representative.

NOTE:
OWNER TO CONFIRM LIGHT POLES ARE STRUCTURAL ENGINEERED TO MEETING WIND LOAD REQUIREMENTS FOR BANNERS



1
S1.0 SIGN E1 AND E2 - ELEVATION
N.T.S.

F1-F3 SIGNAGE



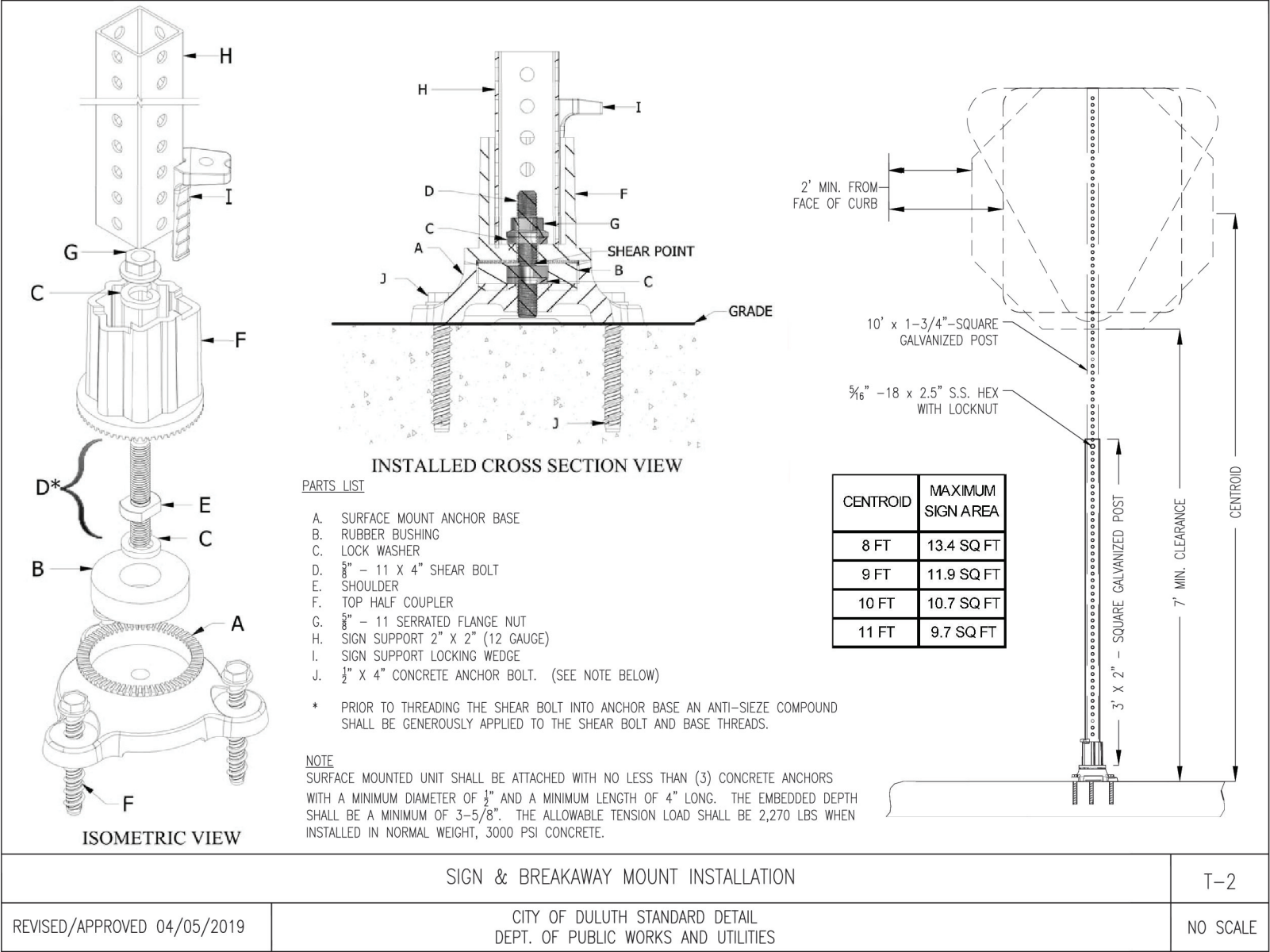
NOTE:
OWNER TO PROVIDE SIGN GRAPHICS, CONTRACTOR RESPONSIBLE FOR PRINTING AND FABRICATION.

OWNER TO PROVIDE MAP OF SIGN LOCATIONS, CONTRACTOR TO MARK AND OWNER TO VERIFY LOCATIONS IN FIELD, CONTRACTOR RESPONSIBLE FOR INSTALLATION

SEE CITY STANDARD SIGN MOUNT INSTALLATION DETAIL (THIS PAGE) FOR POLE ANCHORING REQUIREMENTS

1
S1.0 SIGN F1-F3 - ELEVATION
N.T.S.

CITY STANDARD SIGN MOUNT INSTALLATION DETAIL FOR F1-F3 SIGNAGE

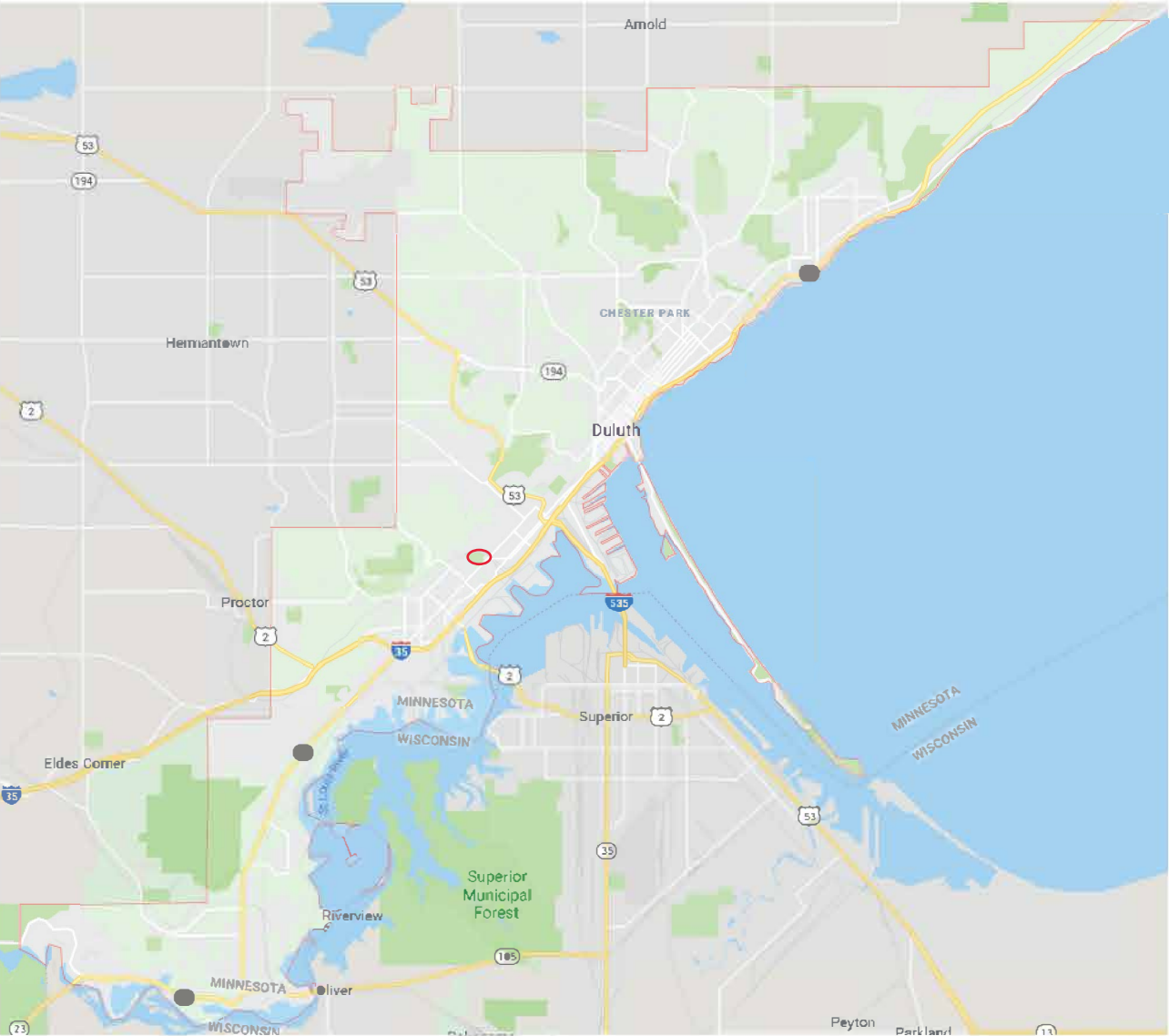


SHEET TITLE / SIGN TYPE: SIGN E1 AND E2, SIGN F1 - F3	DATE DRAWN: June 18, 2019	DATE REVISED:	SHEET #: 18
PROJECT NAME/NUMBER: 2019 Park Entrance Signage	 Hoisington Koegler Group Inc. 123 North 3rd St, Suite 100 Minneapolis, MN 55305 Phone: 612.338.0800 Fax: 612.338.6838		

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CITY-WIDE LOCATION MAP

Owner note:
Add project site locations to map of Duluth below



PROJECT AREA MAP(S)

Owner note:
Place project area maps with sign locations here



SIGN TOTALS:

Owner note: Indicate sign quantity by park name below

type	qnty.	location
A1	<input type="text"/>	
A2	<input type="text"/>	
A3	<input type="text"/>	
A4	<input type="text" value="1"/>	corner of W 3rd and Winnipeg Ave.
A5	<input type="text"/>	
B1	<input type="text"/>	
B2	<input type="text"/>	
B3	<input type="text"/>	
B4	<input type="text"/>	
B5	<input type="text"/>	
B6	<input type="text"/>	
B7	<input type="text"/>	
C1	<input type="text"/>	
C2	<input type="text"/>	
D1	<input type="text"/>	
E1	<input type="text"/>	
E2	<input type="text"/>	
E3	<input type="text"/>	
E4	<input type="text"/>	
E5	<input type="text"/>	
F1	<input type="text"/>	
F2	<input type="text"/>	
F3	<input type="text" value="2"/>	existing mutt mitt dispenser near community garden & by sidewalk entrance on Winnipeg Ave.

GENERAL PROJECT NOTES:

- Owner to supply digital sign graphics, contractor responsible for printing and fabrication of all non-regulatory sign panels
- Printed sign graphic panels w/ frame should be centered front to back and top to bottom within wood structure
- Signs should be installed level and plumb
- Drawings show design intent, contractor to submit shop drawings for final approval, the signature of a licensed structural engineer (licensed in the state of Minnesota) may be required prior to submittal, see bid requirements
- Field conditions vary, depth of bedrock may require adjustment to shown footings. Contractor shall familiarize themselves with proposed sign locations prior to bidding. No compensation will be given for conditions that could be determined or anticipated by examination of the site.
- Owner to approve all field-staked sign locations, see project area maps for general sign location information
- See specifications for all materials and finishes
- All fasteners to be hot dipped galvanized Grade 5 or better, unless otherwise specified
- All wood and metal structures to be mechanically fastened together, unless otherwise specified
- Contractor responsible for calling for utility locates
- Contractor to restore the site to its original condition or better at project completion at no additional cost to owner

PROJECT ADDRESS(ES)

Owner note:
Place project area address(es) below

3002 West 3rd Street, Duluth MN
55806

SHEET TITLE / SIGN TYPE: SIGN PACKAGE COVER SHEET	DATE DRAWN: June 18, 2019	DATE REVISED:	SHEET #: 19
PROJECT NAME/NUMBER: 2019 Park Entrance Signage	 Hoisington Kogler Group Inc. 123 North 3rd St, Suite 100 Minneapolis, MN 55305 Phone: 612.338.0800 Fax: 612.338.6838		

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PARK INFORMATION GRAPHIC

PARK NAME:

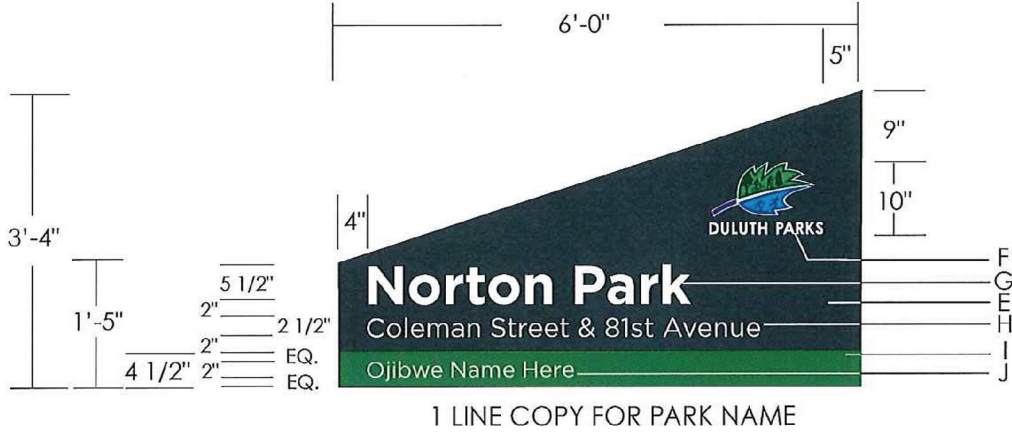
Harrison Park

PARK ADDRESS:

3002 West 3rd Street

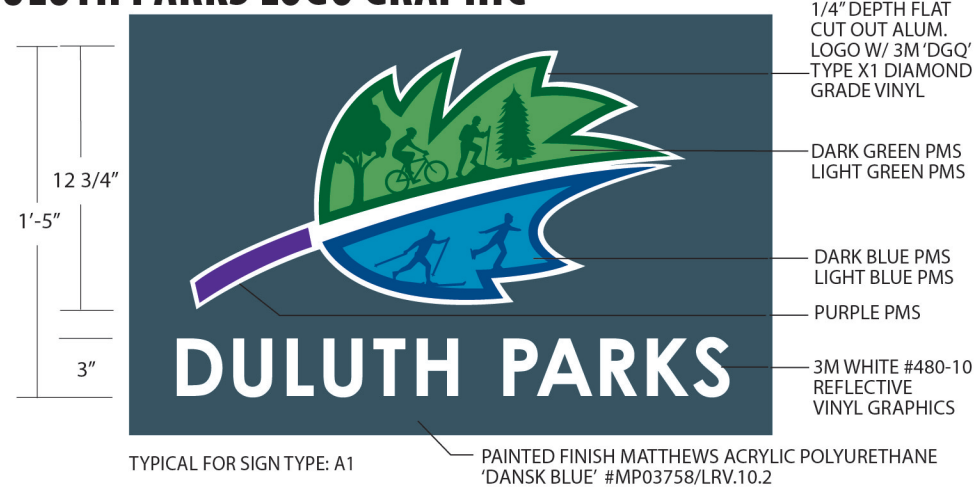
PARK OJIBWE NAME:

N/A



- F 1/4" DEPTH FLAT CUT OUT ALUMINUM LOGO WITH 3M 'DGQ' TYPE X1 DIAMOND GRADE VINYL, REFER TO DETAIL 1/005
- G 3M WHITE #480-10 REFLECTIVE VINYL GRAPHICS REFER TO 1.1-1.3 FOR TYPE FACE & LAYOUT
- H 3M WHITE #480-10 REFLECTIVE VINYL GRAPHICS REFER TO 1.1-1.3 FOR TYPE FACE & LAYOUT
- I STRIPE PAINTED FINISH MATTHEWS ACRYLIC POLYURETHANE 'KRYPTONITE GREEN' #MP25899/LRV21.7
- J 3M WHITE #480-10 REFLECTIVE VINYL GRAPHICS REFER TO 1.1-1.3 FOR TYPE FACE & LAYOUT

DULUTH PARKS LOGO GRAPHIC



MP COLOR CONVERSION CHART

Color Name	Matthew's Paint #	CMYK
Dansk Blue	MP3758	80, 50, 15, 30
Kryptonite Green	MP25899	80, 0, 100, 10
Durango Grey	MP25849	0, 0, 10, 50
Dark Slate	MP10269	67 56 53 30
Spring Green	MP26749	60, 0, 100, 0
Clay Basket Brown	MP25839	40, 40, 50, 20
Marina Blue	MP29320	85, 50, 0, 10
Bicycle Blue	MP25808	100, 60, 0, 10
Light Blue	MP25465	51, 30, 0, 33

PICTOGRAM ICONS GRAPHIC, PARK STAFF SELECT (CIRCLE) UP TO SEVEN

AMENITIES

BBQ grills

community center

restrooms

picnic shelter

picnic area

bike repair station

campground

WINTER TRAIL USAGE

cross-country skiing

ice skating

downhill skiing

snow-shoeing

snowmobiling

SUMMER ACTIVITIES

skate park

dog walking/dog park

playground

birding

baseball/softball

soccer

volleyball

golf

basketball

tennis

disc golf

AQUATIC

fishing

beach access

swimming

canoeing/kayaking

boat launch ramp

mountain biking

equestrian

TRAIL USAGE

hiking

biking

climbing/bouldering

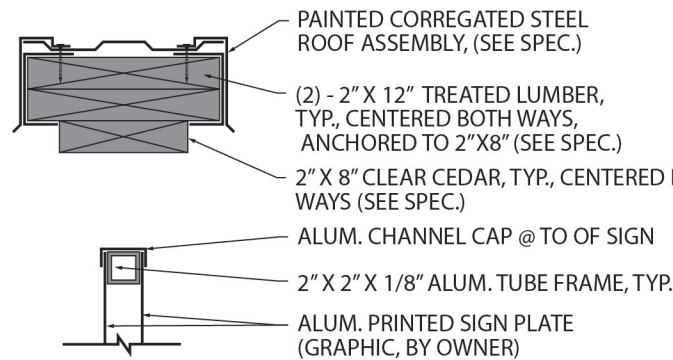
SPECIALTY USAGE

parking



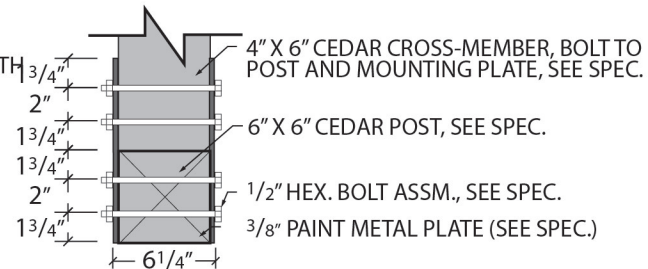
SHEET TITLE / SIGN TYPE: SIGN A4 - 2 SIDED NEIGHBORHOOD PARK I.D. SIGN	DATE DRAWN: June 18, 2019	DATE REVISED:	SHEET #: 20
PROJECT NAME/NUMBER: 2019 Park Entrance Signage		Hoisington Koeigler Group Inc. 123 North 3rd St, Suite 100 Minneapolis, MN 55305 Phone: 612.338.0800 Fax: 612.338.6838	

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2
A4
SIGN A4 - ROOF ASSEMBLY SECTION
N.T.S.

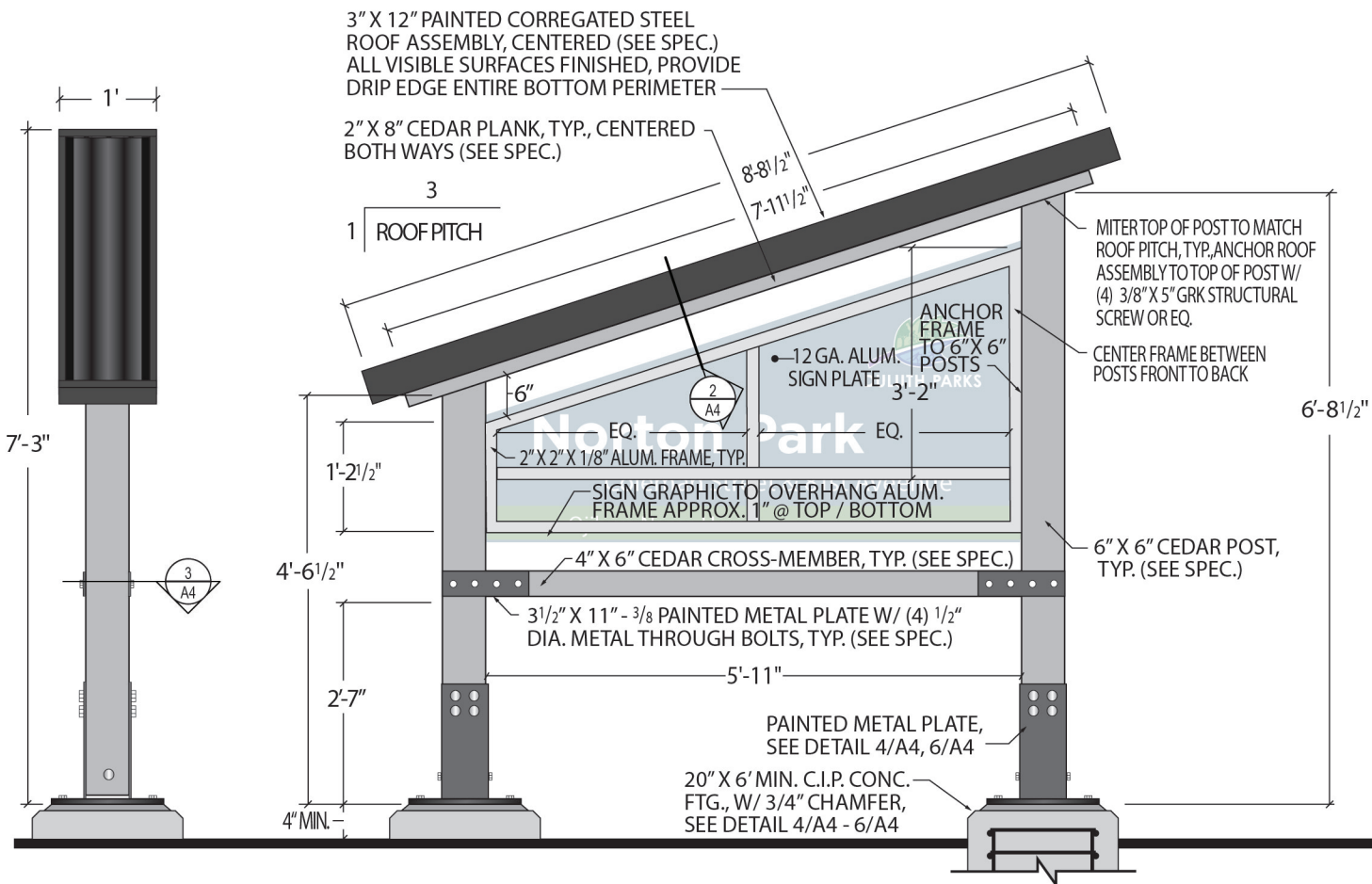
GENERAL NOTES:
Contractor responsible for information on Project Cover sheet, Sign Package Specifications sheet, and Footing and Base Plate Specifications sheet
Drawings show design intent, submit shop drawings noting all materials, dimensions and fasteners for review and approval by owner or owner's representative.



3
A4
SIGN A4 - POST / CROSS-MEMBER JNT. SECTION
N.T.S.

END VIEW

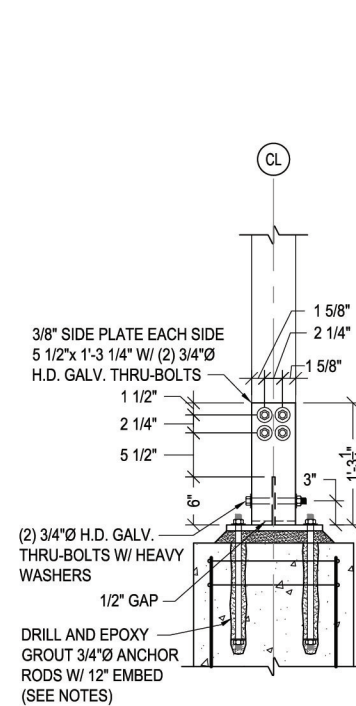
FRONT/BACK VIEW



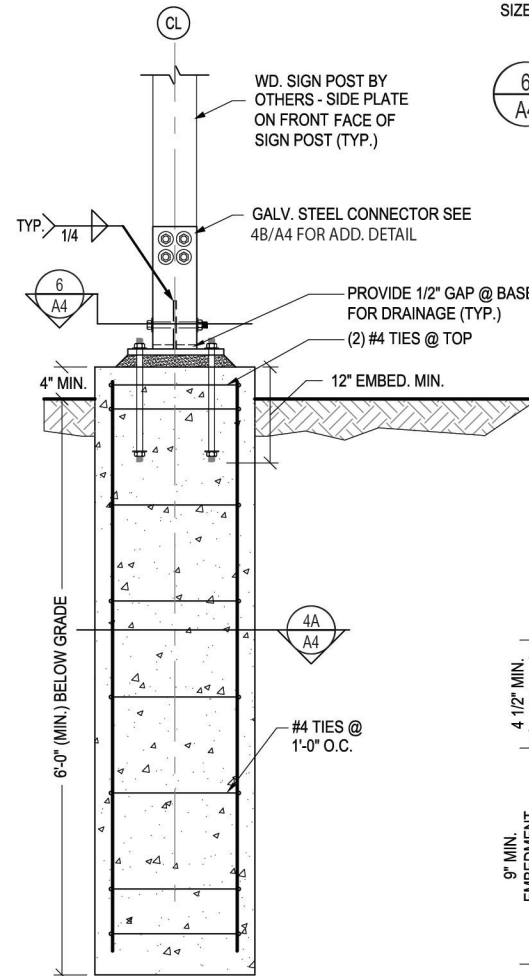
1
A4
SIGN A4 - ELEVATIONS
N.T.S.

GENERAL NOTES:

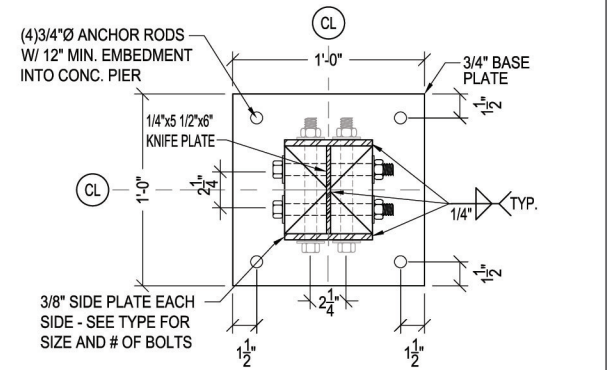
- ALL STEEL USED SHALL BE GRADE ASTM A36, Fy=36 KSI WITH GALV. FINISH FOR EXTERIOR USE.
- ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 H.D. GALVANIZED WITH CLASS 1A THREADS.
- CONCRETE SHALL HAVE COMPRESSIVE STRENGTH Fc' = 4000 PSI.



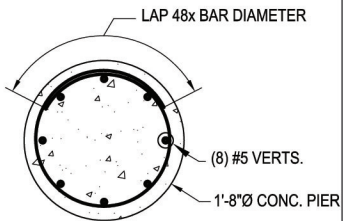
4B
A4
SIGN A4 - TYP. BASE SEC.
N.T.S.



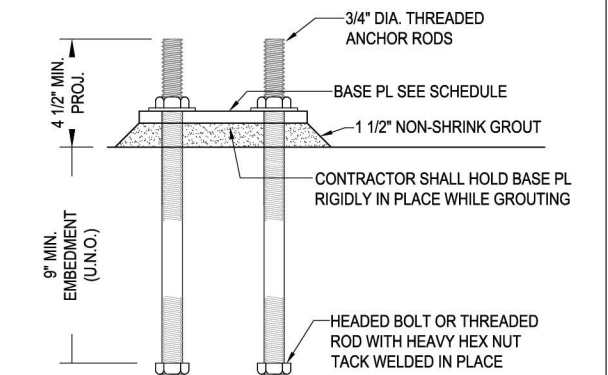
4
A4
SIGN A4 - TYP. FTG. SEC.
N.T.S.



6
A4
POST-BASE PLATE DETAIL
N.T.S.



4A
A4
CONC. PIER DETAIL
N.T.S.



5
A4
TYP. ANCHOR ROD DETAIL
N.T.S.

ICD Project # 17383
Date: 6/22/2017
Drawn By: ZKS
Checked By: JEA

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.

Project Name:

CITY OF DULUTH PARKS AND REC.
EXTERIOR SIGNAGE FOUNDATIONS

Northland
Consulting Engineers L.L.P.

Structural, Civil and Forensic Engineering Services
Voice: (218) 727-5695
Fax: (218) 727-7779
www.nce-engineers.com

SHEET TITLE / SIGN TYPE:	DATE DRAWN:	DATE REVISED:	SHEET #:
SIGN A4 - 2 SIDED NEIGHBORHOOD PARK IDENTIFICATION SIGN	June 18, 2019		21
PROJECT NAME/NUMBER:	<div> <div>HKgi</div> <div> Hoisington Koegler Group Inc. 123 North 3rd St, Suite 100 Minneapolis, MN 55305 Phone: 612.338.0800 Fax: 612.338.6838 </div> </div>		
2019 Park Entrance Signage			

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PARK DEPT. STAFF TO COMPLETE

SIGN TYPE CODE	QUANTITY
F3.A	
F3.B	
F3.C	
F3.D	
F3.E	
F3.F	
F3.Fa	
F3.G	
F3.H	
F3.I	
F3.J	
F3.K	
F3.L	
F3.M	
F3.N	
F3.O	
F3.P	
F3.Q	
F3.R	
F3.S	
F3.T	2
F3.U	
F3.V	
F3.W	
F3.X	
F3.Y	
F3.Z	
F3.AA	
F3.BB	

F3.A

F3.B

F3.C

F3.D

F3.E

F3.F

F3.G

F3.H

F3.J

NOTE: SEE ATTACHED SHEETS FOR ALL INDIVIDUAL SIGN PLATE DIMENSIONS

F3.K

F3.L

F3.M

F3.Fa

F3.N

F3.P

F3.Q

F3.R

F3.S

F3.T

F3.U

SECONDARY ENTRANCE SIGNS

“WHEN SNOW IS ON THE GROUND”

F3.V

F3.W

F3.X

F3.Y

F3.Z

F3.AA

F3.BB



Existing



Existing



CITY OF DULUTH
PARKS AND
RECREATION

REGULATORY
& RULES



Hoisington
Koehler
Group Inc.

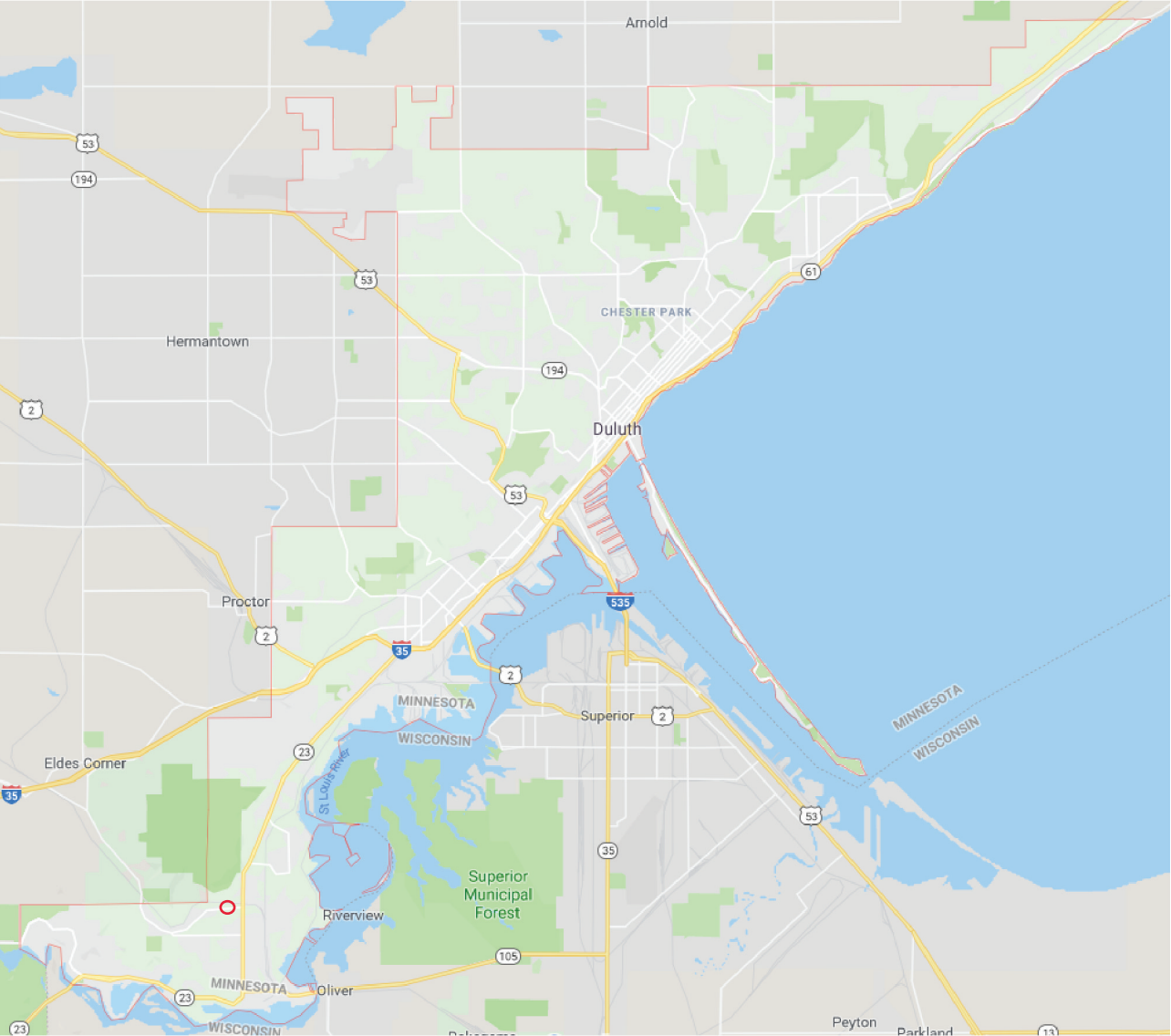
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VISUAL
Communications, Inc.
The release of this
design in whole or in
part shall require sole
written authorization
from VISUAL
Communications, Inc.

F3.T New Design w/ added International Pictograms

Project: 16.03.02
Date: 05/24/16
Rev: 09/30/16
10/24/16
11/17/16
01/16/17
03/10/17 CC

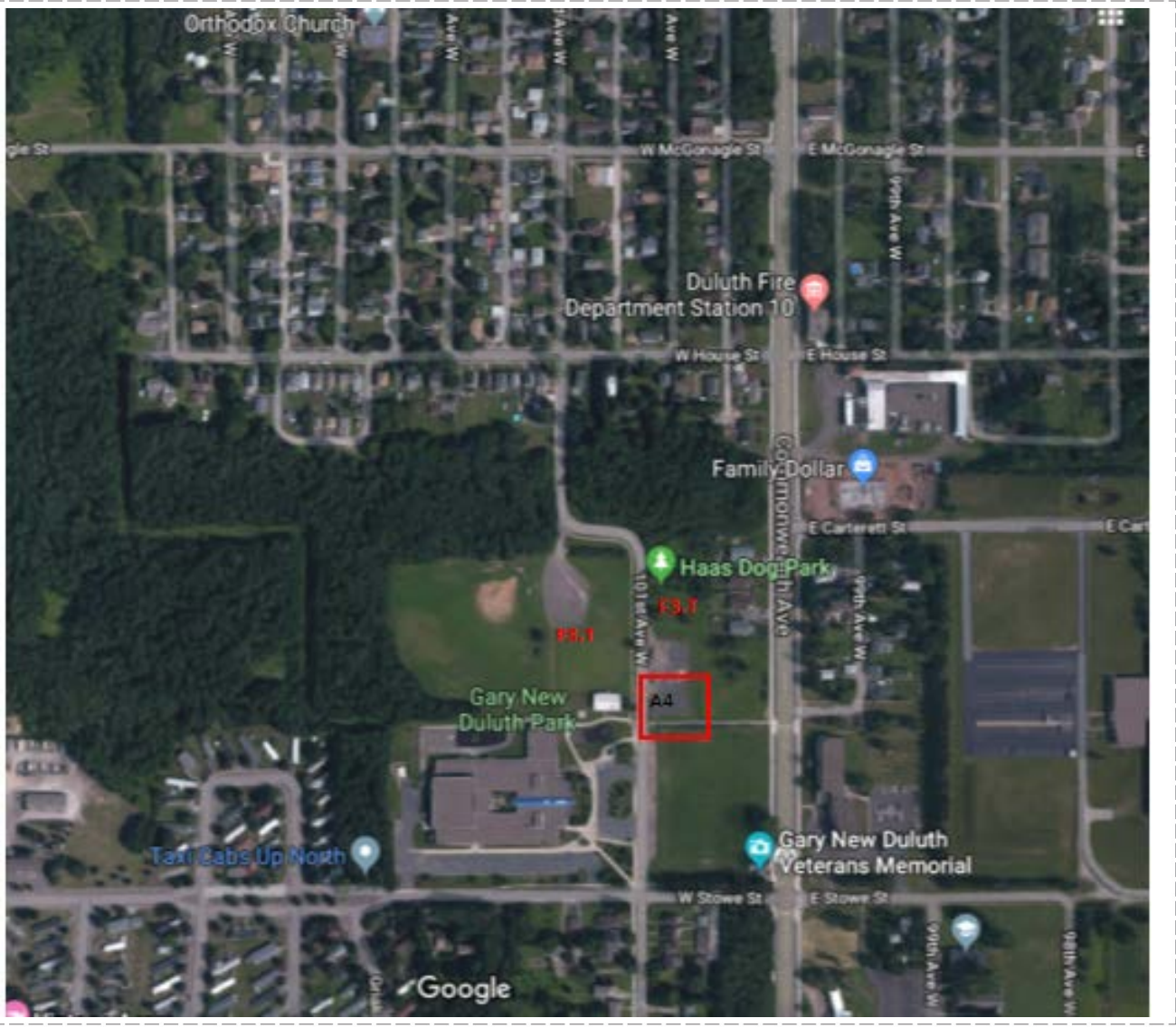
CITY-WIDE LOCATION MAP

Owner note:
Add project site locations to map of Duluth below



PROJECT AREA MAP(S)

Owner note:
Place project area maps with sign locations here



SIGN TOTALS:

Owner note: Indicate sign quantity by park name below

type	qnty.	location
A1	<input type="text"/>	
A2	<input type="text"/>	
A3	<input type="text"/>	
A4	1	corner of 101st Avenue West
A5	<input type="text"/>	
B1	<input type="text"/>	
B2	<input type="text"/>	
B3	<input type="text"/>	
B4	<input type="text"/>	
B5	<input type="text"/>	
B6	<input type="text"/>	
B7	<input type="text"/>	
C1	<input type="text"/>	
C2	<input type="text"/>	
D1	<input type="text"/>	
E1	<input type="text"/>	
E2	<input type="text"/>	
E3	<input type="text"/>	
E4	<input type="text"/>	
E5	<input type="text"/>	
F1	<input type="text"/>	
F2	<input type="text"/>	
F3	2	adhered to chain link fence in front of basketball court; fence in front of baseball field

GENERAL PROJECT NOTES:

- Owner to supply digital sign graphics, contractor responsible for printing and fabrication of all non-regulatory sign panels
- Printed sign graphic panels w/ frame should be centered front to back and top to bottom within wood structure
- Signs should be installed level and plumb
- Drawings show design intent, contractor to submit shop drawings for final approval, the signature of a licensed structural engineer (licensed in the state of Minnesota) my be required prior to submittal, see bid requirements
- Field conditions vary, depth of bedrock may require adjustment to shown footings. Contractor shall familiarize themselves with proposed sign locations prior to bidding. No compensation will be given for conditions that could be determined or anticipated by examination of the site.
- Owner to approve all field-staked sign locations, see project area maps for general sign location information
- See specifications for all materials and finishes
- All fasteners to be hot dipped galvanized Grade 5 or better, unless otherwise specified
- All wood and metal structures to be mechanically fastened together, unless otherwise specified
- Contractor responsible for calling for utility locates
- Contractor to restore the site to its original condition or better at project completion at no additional cost to owner

PROJECT ADDRESS(ES)

Owner note:
Place project area address(es) below

801 101st Avenue West, Duluth MN 55808

SHEET TITLE / SIGN TYPE: SIGN PACKAGE COVER SHEET	DATE DRAWN: June 18, 2019	DATE REVISED:	SHEET #: 25
PROJECT NAME/NUMBER: 2019 Parks Entrance Signage	 Hoisington Kogler Group Inc. 123 North 3rd St, Suite 100 Minneapolis, MN 55305 Phone: 612.338.0800 Fax: 612.338.6838		

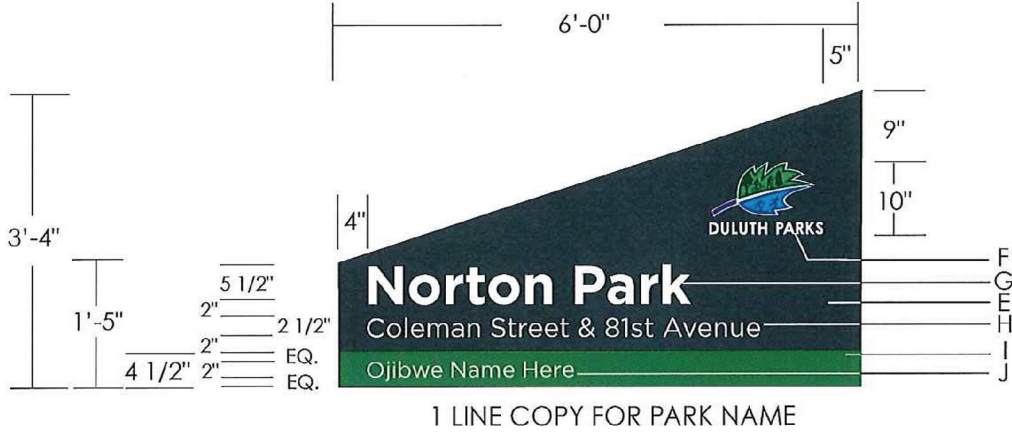
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PARK INFORMATION GRAPHIC

PARK NAME:
Norton Park

PARK ADDRESS:
801 101st Avenue West

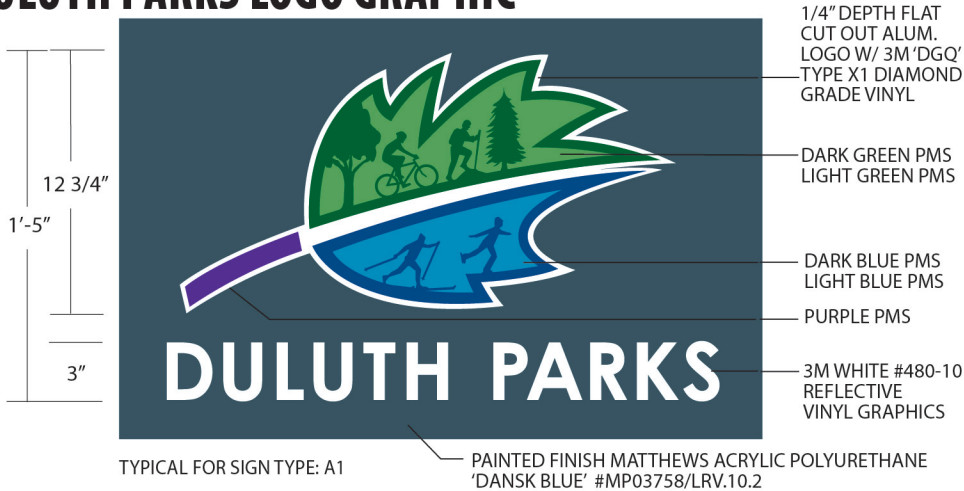
PARK OJIBWE NAME:
N/A



- F 1/4" DEPTH FLAT CUT OUT ALUMINUM LOGO WITH 3M 'DGQ' TYPE X1 DIAMOND GRADE VINYL, REFER TO DETAIL 1/005
- G 3M WHITE #480-10 REFLECTIVE VINYL GRAPHICS REFER TO 1.1-1.3 FOR TYPE FACE & LAYOUT
- H 3M WHITE #480-10 REFLECTIVE VINYL GRAPHICS REFER TO 1.1-1.3 FOR TYPE FACE & LAYOUT
- I STRIPE PAINTED FINISH MATTHEWS ACRYLIC POLYURETHANE 'KRYPTONITE GREEN' #MP25899/LRV21.7
- J 3M WHITE #480-10 REFLECTIVE VINYL GRAPHICS REFER TO 1.1-1.3 FOR TYPE FACE & LAYOUT



DULUTH PARKS LOGO GRAPHIC



MP COLOR CONVERSION CHART

Color Name	Matthew's Paint #	CMYK
Dansk Blue	MP3758	80, 50, 15, 30
Kryptonite Green	MP25899	80, 0, 100, 10
Durango Grey	MP25849	0, 0, 10, 50
Dark Slate	MP10269	67 56 53 30
Spring Green	MP26749	60, 0, 100, 0
Clay Basket Brown	MP25839	40, 40, 50, 20
Marina Blue	MP29320	85, 50, 0, 10
Bicycle Blue	MP25808	100, 60, 0, 10
Light Blue	MP25465	51, 30, 0, 33

PICTOGRAM ICONS GRAPHIC, PARK STAFF SELECT (CIRCLE) UP TO SEVEN

AMENITIES
BBQ grills, community center, restrooms, picnic shelter, picnic area, bike repair station, campground

WINTER TRAIL USAGE
cross-country skiing, ice skating, downhill skiing, snow-shoeing, snowmobiling

SUMMER ACTIVITIES
skate park, dog walking/dog park, playground, birding, baseball/softball, soccer, volleyball, golf, basketball, tennis, disc golf

AQUATIC
fishing, beach access, swimming, canoeing/kayaking, boat launch ramp, mountain biking, equestrian

TRAIL USAGE
hiking, biking, climbing/bouldering

SPECIALTY USAGE
parking

SHEET TITLE / SIGN TYPE:
SIGN A4 - 2 SIDED NEIGHBORHOOD PARK I.D. SIGN

DATE DRAWN:
June 18, 2019

DATE REVISED:

SHEET #:
26

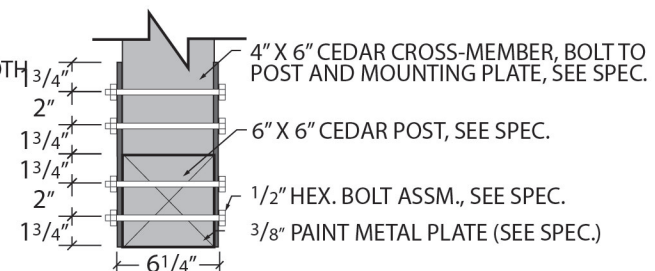
PROJECT NAME/NUMBER:
2019 Park Entrance Signage

Hoisington Koeigler Group Inc.
123 North 3rd St, Suite 100
Minneapolis, MN 55305
Phone: 612.338.0800
Fax: 612.338.6838

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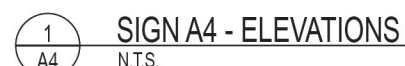
Contractor responsible for information on Project Cover sheet, Sign Package Specifications sheet, and Footing and Base Plate Specifications sheet

Drawings show design intent, submit shop drawings noting all materials, dimensions and fasteners for review and approval by owner or owner's representative.

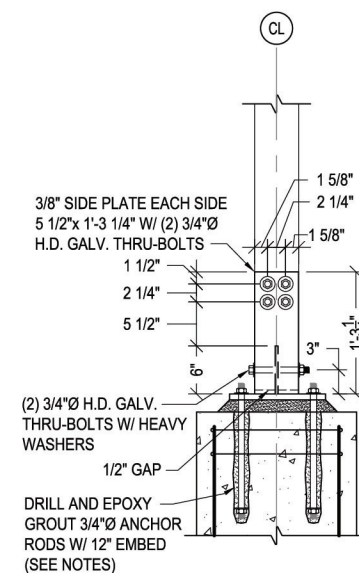


3 SIGN A4 - POST / CROSS-MEMBER JNT. SECTION
A4 N.T.S.

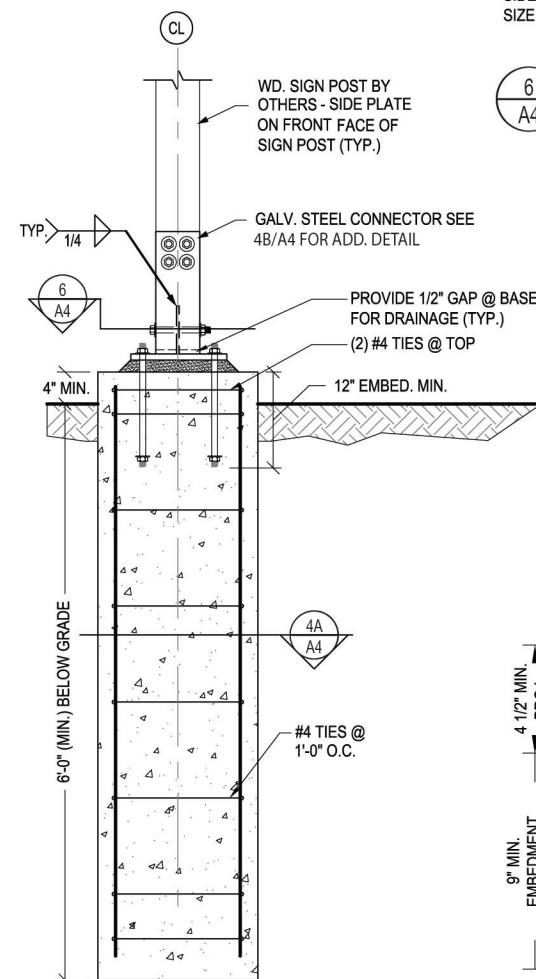
FRONT/BACK VIEW




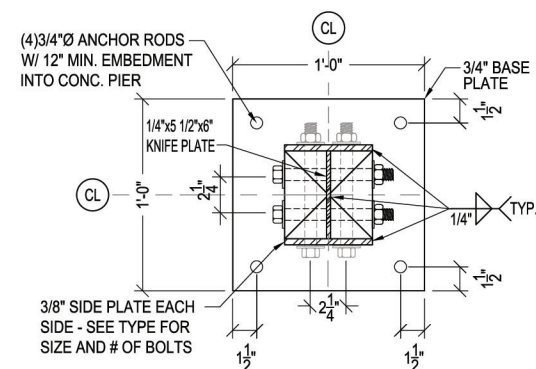
1. ALL STEEL USED SHALL BE GRADE ASTM A36, $F_y=36$ KSI WITH GALV. FINISH FOR EXTERIOR USE.
2. ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 H.D. GALVANIZED WITH CLASS 1A THREADS.
3. CONCRETE SHALL HAVE COMPRESSIVE STRENGTH $F'_c = 4000$ PSI.



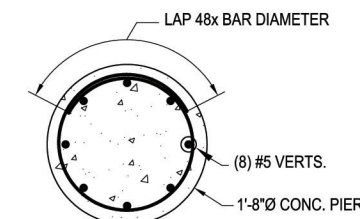
4B SIGN A4 - TYP. BASE SEC.
A4 N.T.S.



C.  SIGN A4 - TYP. FTG. SEC.
N.T.S.

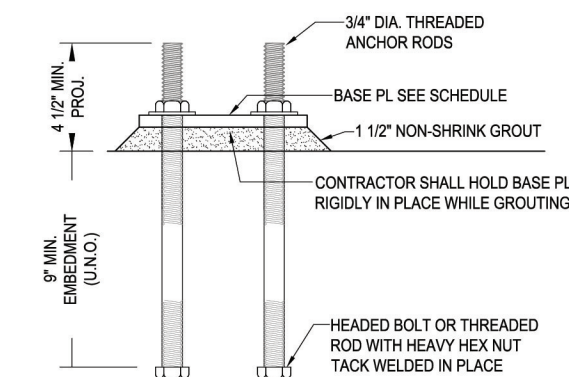


6 POST-BASE PLATE DETAIL
A4 N.T.S.



4A
A4

CONC. PIER DETAIL
N.T.S.



5
A4

TYP. ANCHOR ROD DETAIL
N.T.S.

Date: 6-22-2017
 Drawn By: ZKS
 Checked By: JEL

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.

Project Name:

CITY OF DULUTH PARKS AND REC.
EXTERIOR SIGNAGE FOUNDATIONS



Voice: (218) 727-5
Fax: (218) 727-733

Structural, Civil and Forensic Engineering Services

www.nce-engineers.co.uk

SHEET TITLE / SIGN TYPE:

SIGN A4 – 2 SIDED NEIGHBORHOOD PARK IDENTIFICATION SIGN

DATE DRAWN:

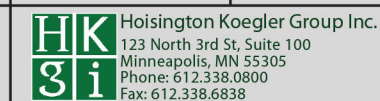
June 18, 2019

DATE REVISED:

SHEET #:

27

PROJECT NAME/NUMBER:
2019 Park Entrance Signage



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PARK DEPT. STAFF TO COMPLETE

SIGN TYPE CODE	QUANTITY
F3.A	
F3.B	
F3.C	
F3.D	
F3.E	
F3.F	
F3.Fa	
F3.G	
F3.H	
F3.I	
F3.J	
F3.K	
F3.L	
F3.M	
F3.N	
F3.O	
F3.P	
F3.Q	
F3.R	
F3.S	
F3.T	2
F3.U	
F3.V	
F3.W	
F3.X	
F3.Y	
F3.Z	
F3.AA	
F3.BB	

F3.A

F3.B

F3.C

F3.D

F3.E

F3.F

F3.G

F3.H

F3.J

NOTE: SEE ATTACHED SHEETS FOR ALL INDIVIDUAL SIGN PLATE DIMENSIONS

F3.K

F3.L

F3.M

F3.Fa

F3.N

F3.P

F3.Q

F3.R

F3.S

F3.T

F3.U

SECONDARY ENTRANCE SIGNS

“WHEN SNOW IS ON THE GROUND”

F3.V

F3.W

F3.X

F3.Y

F3.Z

F3.AA

F3.BB



Existing



Existing



F3.T New Design w/ added International Pictograms



CITY OF DULUTH
PARKS AND
RECREATION

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Project: 16.03.02
Date: 05/24/16
Rev: 09/30/16
10/24/16
11/17/16
01/16/17
03/10/17 CC



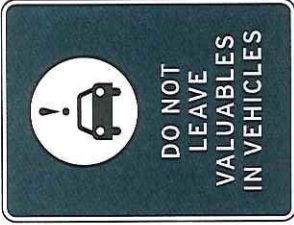
F3.T New Design w/ added International Pictograms



F3.A



B



C



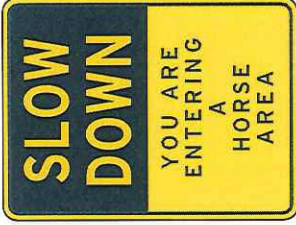
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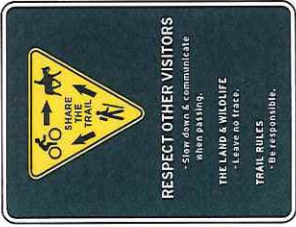
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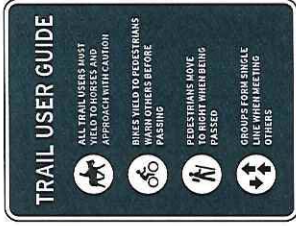
F



G



H



J



K



L



M



N



P



Q



T



CITY OF DULUTH
PARKS AND
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