INVITATION TO BID

Ventilation System at Fleet Garage

4825 Mike Colalillo Drive, Duluth MN

POSTED: April 6, 2017

Bid #: 17-0132

BIDS DUE: WEDNESDAY, APRIL 19, 2017 @ 2:00 PM CST

Property & Facilities Maintenance
1532 W. Michigan St.
Duluth, MN 55806

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

INVITATION TO BID

VENTILATION SYSTEM AT FLEET GARAGE

BID NUMBER: **17-0132** **BID OPENING: WEDNESDAY, APRIL 19, 2017 AT 2:00 PM**

PROJECT DESCRIPTION: Replace the ventilation system at Fleet Services garage.

PRE-BID/WALK-THROUGH: A **mandatory** pre-bid walk-through will be conducted on TUESDAY, APRIL 11, 2017 at 10:00 AM at 4825 Mike Colalillo Drive, Duluth. All interested bidders MUST attend.

QUESTIONS: Please submit any questions regarding this project via e-mail to purchasing@duluthmn.gov. Responses will be provided to all interested bidders as an addendum to this solicitation.

The selected contractor will be issued a construction contract (draft attached). Notice to Proceed will be issued once the agreement is fully executed.

Proposal forms, contract documents, plans and specifications are on file at the following offices: Duluth Builder's Exchange, Minnesota Builder's Exchange, BXWI-Fox Valley Plan Room, and Blue Book Building and Construction Network.

INSTRUCTIONS TO BIDDERS

All bids must be complete, signed, and transmitted in a sealed envelope plainly marked with the bid number, subject matter, and opening date.

Bids may be mailed to the Purchasing Office, City Hall, 411 West 1st Street, Room 100, Duluth, MN 55802 or dropped off in person at the same address.

Bids must be received in Purchasing before 2:00 PM local time on the bid opening date specified on the Invitation for Bids. The City Purchasing Agent or her designee will conduct a public bid opening in Room 100 immediately following receipt of the bids. Bid results will be posted online at http://www.duluthmn.gov/purchasing/bids-request-for-proposals/ once all bids have been reviewed.

No alternatives to the specification will be considered unless specifically requested. Erasures or other changes to the bid must be initialed and dated, however no special conditions shall be made or included in the bid form by the bidder.

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 all bids. Do not include sales tax in the unit price. Price may not be the only consideration for bid award. Bids must be firm for a minimum of 30 days.

The following documents must be submitted with your bid:

1. **Bid Bond** - A certified check or bank draft, payable to the order of the City of Duluth, negotiable U.S. Government Bonds (at par value), or a satisfactory bid bond executed by the bidder and acceptable surety, in an amount equal to five per cent (5%) of the total bid. Bids may be withdrawn without forfeiture of surety if the request is submitted by the Bidder and received at the Purchasing Office in writing or by e-mail prior to the scheduled bid opening.

2. **Acknowledgment of Addendum –** any changes to this solicitation will be announced via Addendum.

Bidders must indicate that they have reviewed any addendum(s) by initialing and dating on the bid form where indicated. Failure to acknowledge addendum(s) may result in your bid being deemed non-responsive.

3. **Responsible Contractor** - 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 proposal 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 bid. The owner or officer of the company must sign the form under oath verifying compliance with each of the minimum criteria. Making a false statement under oath will render the Bidder or subcontractor that makes the false statement ineligible to be awarded a construction project and may result in termination of a contract awarded to a Bidder or subcontractor that submits a false statement. 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.

Please note that the following requirements also apply to this project, and any additional required documents must be submitted prior to award/contract execution. Submitting these documents with your bid will assist in expediting the process.

1. **Insurance** – Contractor must provide proof of Public Liability and Automobile Liability Insurance with limits not less than $1,500,000 Single Limit prior to the commencement of work. The City of Duluth must be named as an additional insured. Please refer to the draft Contract, Section 7.

2. **Affidavit of Non-Collusion** – The successful bidder shall be required to execute the attached 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** – 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 will submit the attached Equal Employment Opportunity (EEO) Affirmative Action Policy Statement & Compliance Certificate.

5. **Project Labor Agreement (PLA)** - A PLA will be required for any bid that is over or could virtually go over $150,000. A copy of the City standard PLA is included in this package.

6. **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. This form may be found at: http://www.revenue.state.mn.us/Forms_and_Instructions/sde.pdf

7. **Prevailing Wage** - Not less than the minimum salaries and prevailing wages as set forth in the contract documents must be paid on this project.

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

BID FORM
BID # 17-0132
VENTILATION SYSTEM AT FLEET GARAGE

ITEM	PRICE
TOTAL PROJECT COST	$

_____
TOTAL PRICE IN WRITING

ACKNOWLEDGMENT OF ADDENDA

ADDENDUM # _____ INITIAL/DATE _____

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: ☐

AFFIDAVIT AND INFORMATION REQUIRED OF BIDDERS

Affidavit of Non-Collusion:

I hereby swear (or affirm) under penalty of perjury:

1) That I am the bidder (if the bidder is an individual), a partner in the bidder (if the bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the bidder is a corporation);

2) That the attached bid or bids have been arrived at by the bidder independently and have been submitted without collusion with and without agreement, understanding, or planned common course of action with any other vendor of materials, supplies, equipment or services described in the invitation to bid, designed to limit independent bidding or competition;

3) That the contents of the bid or bids have not been communicated by the bidder or its employees or agents to any person not an employee or agent of the bidder or its surety on any bond furnished with the bid or bids and will not be communicated to any such person prior to the official opening of the bid or bids;

4) That a family relationship between a City of Duluth employee and bidder/proposer are in non-collusion; and

5) That I have fully informed myself regarding the accuracy of the statements made in this affidavit.

Signed: _____

Firm Name: _____

Subscribed and sworn to me before this _____ day of _____, _____

NOTARY PUBLIC _____

My commission expires: _____

Bidder's Federal Identification Number _____

EQUAL EMPLOYMENT OPPORTUNITY EEO AFFIRMATIVE ACTION
POLICY STATEMENT & COMPLIANCE CERTIFICATE

TO: City of Duluth, MN PROJECT NUMBER & DESCRIPTION _____

_____

FROM: _____

_____
(Vendor's name, address, telephone number)

A) Employment: It is the policy of the above named FIRM to afford equal opportunity for employment to all individuals regardless of race, color, creed, religion, national origin, ancestry, age, sex, marital status, status with respect to public assistance and/or disability. The FIRM will take affirmative action to ensure that we will: (1) recruit, hire, and promote all job classifications without regard to race, color, creed, religion, national origin, ancestry, age, sex, marital status, status with respect to public assistance, and/or disability, except where sex is a bona fide occupational qualification; (2) base decisions on employment so as to further the principle of equal employment opportunity; (3) ensure that promotion decisions are in accord with the principles of equal employment opportunity by imposing only valid requirements for promotional opportunities; (4) ensure that all personnel actions such as compensation, benefits, transfers, layoffs, return from layoff, FIRM sponsored training, education tuition assistance, social and recreational programs will be administered without regard to race, color, creed, religion, national origin, ancestry, age, sex, marital status, status with respect to public assistance, and/or disability. The FIRM also intends full compliance with Veteran affirmative action requirements. Additionally, minority and female employees shall be encouraged to participate in all FIRM activities and refer applicants.

I have designated (name) _____to direct the establishment of and to monitor the implementation of personnel procedures to guide the FIRM's affirmative action program. Where PROJECTS exceed $500,000, this official shall also serve as the liaison officer that administers the FIRM's "Minority Business Enterprise Program." This official is charged with designing and implementing audit and reporting systems that will keep management informed on a monthly basis of the status of the equal opportunity area.

Supervisors have been made to understand that their work performance is being evaluated on the basis of their equal opportunity efforts and results, as well as other criteria. It shall be the responsibility of the FIRM and its supervisors to take actions to prevent harassment of employees placed through affirmative action efforts.

B) Reports: Unless exempted by law and regulation, the FIRM shall make available and file those reports related to equal opportunity as may be required by the City of Duluth and State and Federal compliance agencies. Requirements and Reports are defined in 41CFR60 "Compliance Responsibility for Equal Opportunity" published by the U. S.Department of Labor which is incorporated herein by reference. Additional requirements are defined in various State and Federal Civil Rights Legislation and Rules promulgated thereunder.

C) Nonsegregated Facilities: The FIRM certifies that it does not maintain or provide for its employees any segregated facilities at any of its establishments and that it does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The FIRM certifies that it will not maintain or provide for its employees any segregated facilities at any of its establishments and that it will not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The FIRM agrees that a breach of this certification is a violation of the Equal Opportunity Clause in this certificate. As used in this Certification, the term "segregated

facilities" means any waiting rooms, work area, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation for entertainment area, transportation, and housing facilities provided for employees which are segregated by explicit directive or are, in fact, segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or otherwise.

D) Affirmative Action Compliance Program: Unless exempted by regulation and law, the FIRM–if the FIRM has 50 or more employees and if the value of current contracts with the City of Duluth exceeds $50,000–shall prepare and maintain a written affirmative action compliance program that meets the requirement as set forth in 41CFR60.

E) Non-Compliance: The FIRM certifies that it is not currently in receipt of any outstanding letters of deficiencies, show cause, probable cause, or other such notification of non-compliance with EEO Laws and Regulations.

F) Employment Goals - "Construction" Projects: It shall be the goal of the FIRM if the PROJECT is of a construction nature that in all on-site employment generated that no less than 3% of the on-site workforce will be minority employees and that no less than 7% of the on-site workforce will be female employees. Further, it is the goal of the FIRM if the PROJECT is of a construction nature that in all on-site employment generated that no less than 3% of the work hours generated shall be worked by minority employees and that no less than 7% of the work hours generated shall be worked by female employees.

G) Subcontractors: The FIRM will for all its PROJECT subcontractors regardless of tier (unless exempted by law and regulation) that received in excess of $2,500 require that: (1) the subcontractor shall execute an "EEO Statement and Certification" similar in nature to this "Statement and Certification", (2) said documentation to be maintained on file with the FIRM or subcontractor as may be appropriate.

Executed this _____ day of _____, 20__ by:

_____

Printed name and title

_____

Signature

NOTE: In addition to the various remedies prescribed for violation of Equal Opportunity Laws, the penalty for false statements is prescribed in 18 U.S.C. 1001.

THIS FORM MUST BE RETURNED WITH YOUR BID

ATTACHMENT A
PRIME CONTRACTOR RESPONSE

RESPONSIBLE CONTRACTOR VERIFICATION AND CERTIFICATION OF COMPLIANCE

STATE PROJECT NUMBER: _____

This form includes changes by statutory references from the Laws of Minnesota 2015, chapter 64, sections 1-9. This form must be submitted with the response to this solicitation. A response received without this form, will be rejected.

Minn. Stat. § 16C.285, Subd. 7. **IMPLEMENTATION.** … any prime contractor or subcontractor or motor carrier that does not meet the minimum criteria in subdivision 3 or fails to verify that it meets those criteria is not a responsible contractor and is not eligible to be awarded a construction contract for the project or to perform work on the project…	
Minn. Stat. § 16C.285, Subd. 3. **RESPONSIBLE CONTRACTOR, MINIMUM CRITERIA**. "Responsible contractor" means a contractor that conforms to the responsibility requirements in the solicitation document for its portion of the work on the project and verifies that it meets the following minimum criteria:	
(1)	The Contractor: (i) is in compliance with workers' compensation and unemployment insurance requirements; (ii) is in compliance with Department of Revenue and Department of Employment and Economic Development registration requirements if it has employees; (iii) has a valid federal tax identification number or a valid Social Security number if an individual; and (iv) has filed a certificate of authority to transact business in Minnesota with the Secretary of State if a foreign corporation or cooperative.
(2)	The contractor or related entity is in compliance with and, during the three-year period before submitting the verification, has not violated section 177.24, 177.25, 177.41 to 177.44, 181.13, 181.14, or 181.722, and has not violated United States Code, title 29, sections 201 to 219, or United States Code, title 40, sections 3141 to 3148. For purposes of this clause, a violation occurs when a contractor or related entity: (i) repeatedly fails to pay statutorily required wages or penalties on one or more separate projects for a total underpayment of $25,000 or more within the three-year period, provided that a failure to pay is “repeated” only if it involves two or more separate and distinct occurrences of underpayment during the three-year period; (ii) has been issued an order to comply by the commissioner of Labor and Industry that has become final; (iii) has been issued at least two determination letters within the three-year period by the Department of Transportation finding an underpayment by the contractor or related entity to its own employees; (iv) has been found by the commissioner of Labor and Industry to have repeatedly or willfully violated any of the sections referenced in this clause pursuant to section 177.27; (v) has been issued a ruling or findings of underpayment by the administrator of the Wage and Hour Division of the United States Department of Labor that have become final or have been upheld by an administrative law judge or the Administrative Review Board; or (vi) has been found liable for underpayment of wages or penalties or misrepresenting a construction worker as an independent contractor in an action brought in a court having jurisdiction. Provided that, if the contractor or related entity contests a determination of underpayment by the Department of Transportation in a contested case proceeding, a violation does not occur until the contested case proceeding has concluded with a determination that the contractor or related entity underpaid wages or penalties;*

(3)	The contractor or related entity is in compliance with and, during the three-year period before submitting the verification, has not violated section 181.723 or chapter 326B. For purposes of this clause, a violation occurs when a contractor or related entity has been issued a final administrative or licensing order;*
(4)	The contractor or related entity has not, more than twice during the three-year period before submitting the verification, had a certificate of compliance under section 363A.36 revoked or suspended based on the provisions of section 363A.36, with the revocation or suspension becoming final because it was upheld by the Office of Administrative Hearings or was not appealed to the office;*
(5)	The contractor or related entity has not received a final determination assessing a monetary sanction from the Department of Administration or Transportation for failure to meet targeted group business, disadvantaged business enterprise, or veteran-owned business goals, due to a lack of good faith effort, more than once during the three-year period before submitting the verification;*
	* Any violations, suspensions, revocations, or sanctions, as defined in clauses (2) to (5), occurring prior to July 1, 2014, shall not be considered in determining whether a contractor or related entity meets the minimum criteria.
(6)	The contractor or related entity is not currently suspended or debarred by the federal government or the state of Minnesota or any of its departments, commissions, agencies, or political subdivisions that have authority to debar a contractor; and
(7)	All subcontractors and motor carriers that the contractor intends to use to perform project work have verified to the contractor through a signed statement under oath by an owner or officer that they meet the minimum criteria listed in clauses (1) to (6).

Minn. Stat. § 16C.285, Subd. 5. **SUBCONTRACTOR VERIFICATION**.

A prime contractor or subcontractor shall include in its verification of compliance under subdivision 4 a list of all of its first-tier subcontractors that it intends to retain for work on the project. Prior to execution of a construction contract, and as a condition precedent to the execution of a construction contract, the apparent successful prime contractor shall submit to the contracting authority a supplemental verification under oath confirming compliance with subdivision 3, clause (7). Each contractor or subcontractor shall obtain from all subcontractors with which it will have a direct contractual relationship a signed statement under oath by an owner or officer verifying that they meet all of the minimum criteria in subdivision 3 prior to execution of a construction contract with each subcontractor.

If a prime contractor or any subcontractor retains additional subcontractors on the project after submitting its verification of compliance, the prime contractor or subcontractor shall obtain verifications of compliance from each additional subcontractor with which it has a direct contractual relationship and shall submit a supplemental verification confirming compliance with subdivision 3, clause (7), within 14 days of retaining the additional subcontractors.

A prime contractor shall submit to the contracting authority upon request copies of the signed verifications of compliance from all subcontractors of any tier pursuant to subdivision 3, clause (7). A prime contractor and subcontractors shall not be responsible for the false statements of any subcontractor with which they do not have a direct contractual relationship. A prime contractor and subcontractors shall be responsible for false statements by their first-tier subcontractors with which they have a direct contractual relationship only if they accept the verification of compliance with actual knowledge that it contains a false statement.

Subd. 5a. **Motor carrier verification.** A prime contractor or subcontractor shall obtain annually from all motor carriers with which it will have a direct contractual relationship a signed statement under oath by an owner or officer verifying that they meet all of the minimum criteria in subdivision 3 prior to execution of a construction contract with each motor carrier. A prime contractor or subcontractor shall require each such motor carrier to provide it with immediate written notification in the event that the motor carrier no longer meets one or more of the minimum criteria in subdivision 3 after submitting its annual verification. A motor carrier shall be ineligible to perform work on a project covered by this section if it does not meet all the minimum criteria in subdivision 3. Upon request, a prime contractor or subcontractor shall submit to the contracting authority the signed verifications of compliance from all motor carriers providing for-hire transportation of materials, equipment, or supplies for a project.

Minn. Stat. § 16C.285, Subd. 4. **VERIFICATION OF COMPLIANCE.**
A contractor responding to a solicitation document of a contracting authority shall submit to the contracting authority a signed statement under oath by an owner or officer verifying compliance with each of the minimum criteria in subdivision 3, with the exception of clause (7), at the time that it responds to the solicitation document. A contracting authority may accept a signed statement under oath as sufficient to demonstrate that a contractor is a responsible contractor and shall not be held liable for awarding a contract in reasonable reliance on that statement. A prime contractor, subcontractor, or motor carrier that fails to verify compliance with any one of the required minimum criteria or makes a false statement under oath in a verification of compliance shall be ineligible to be awarded a construction contract on the project for which the verification was submitted. A false statement under oath verifying compliance with any of the minimum criteria may result in termination of a construction contract that has already been awarded to a prime contractor or subcontractor or motor carrier that submits a false statement. A contracting authority shall not be liable for declining to award a contract or terminating a contract based on a reasonable determination that the contractor failed to verify compliance with the minimum criteria or falsely stated that it meets the minimum criteria. A verification of compliance need not be notarized. An electronic verification of compliance made and submitted as part of an electronic bid shall be an acceptable verification of compliance under this section provided that it contains an electronic signature as defined in section 325L.02, paragraph (h).

CERTIFICATION	
By signing this document I certify that I am an owner or officer of the company, and I swear under oath that: **1) My company meets each of the Minimum Criteria to be a responsible contractor as defined herein and is in compliance with Minn. Stat. § 16C.285, and** **2) if my company is awarded a contract, I will submit Attachment A-1 prior to contract execution, and** **3) if my company is awarded a contract, I will also submit Attachment A-2 as required.**	
Authorized Signature of Owner or Officer:	**Printed Name:**
Title:	**Date:**
Company Name:	

NOTE: Minn. Stat. § 16C.285, Subd. 2, (c) If only one prime contractor responds to a solicitation document, a contracting authority may award a construction contract to the responding prime contractor even if the minimum criteria in subdivision 3 are not met.

ATTACHMENT A-1

FIRST-TIER SUBCONTRACTORS LIST

SUBMIT PRIOR TO EXECUTION OF A CONSTRUCTION CONTRACT

STATE PROJECT NUMBER: _____

Minn. Stat. § 16C.285, Subd. 5. A prime contractor or subcontractor shall include in its verification of compliance under subdivision 4 a list of all of its first-tier subcontractors that it intends to retain for work on the project. Prior to execution of a construction contract, and as a condition precedent to the execution of a construction contract, the apparent successful prime contractor shall submit to the contracting authority a supplemental verification under oath confirming compliance with subdivision 3, clause (7). Each contractor or subcontractor shall obtain from all subcontractors with which it will have a direct contractual relationship a signed statement under oath by an owner or officer verifying that they meet all of the minimum criteria in subdivision 3 prior to execution of a construction contract with each subcontractor.

FIRST TIER SUBCONTRACTOR NAMES* (Legal name of company as registered with the Secretary of State)	**Name of city where company home office is located**

*Attach additional sheets as needed for submission of all first-tier subcontractors.

SUPPLEMENTAL CERTIFICATION FOR ATTACHMENT A-1	
By signing this document I certify that I am an owner or officer of the company, and I swear under oath that: **All first-tier subcontractors listed on attachment A-1 have verified through a signed statement under oath by an owner or officer that they meet the minimum criteria to be a responsible contractor as defined in Minn. Stat. § 16C.285.**	
Authorized Signature of Owner or Officer:	**Printed Name:**
Title:	**Date:**
Company Name:	

ATTACHMENT A-2

ADDITIONAL SUBCONTRACTORS LIST

PRIME CONTRACTOR TO SUBMIT AS SUBCONTRACTORS ARE ADDED TO THE PROJECT

STATE PROJECT NUMBER: _____

This form must be submitted to the Project Manager or individual as identified in the solicitation document.

Minn. Stat. § 16C.285, Subd. 5. … If a prime contractor or any subcontractor retains additional subcontractors on the project after submitting its verification of compliance, the prime contractor or subcontractor shall obtain verifications of compliance from each additional subcontractor with which it has a direct contractual relationship and shall submit a supplemental verification confirming compliance with subdivision 3, clause (7), within 14 days of retaining the additional subcontractors. …

ADDITIONAL SUBCONTRACTOR NAMES* (Legal name of company as registered with the Secretary of State)	**Name of city where company home office is located**

*Attach additional sheets as needed for submission of all additional subcontractors.

SUPPLEMENTAL CERTIFICATION FOR ATTACHMENT A-2	
By signing this document I certify that I am an owner or officer of the company, and I swear under oath that: **All additional subcontractors listed on Attachment A-2 have verified through a signed statement under oath by an owner or officer that they meet the minimum criteria to be a responsible contractor as defined in Minn. Stat. § 16C.285.**	
Authorized Signature of Owner or Officer:	**Printed Name:**
Title:	**Date:**
Company Name:	

CONTRACTOR
&
CITY OF DULUTH

THIS AGREEMENT, effective as of the date of attestation by the City Clerk, is made by and between the **CITY OF DULUTH**, a municipal corporation, hereinafter referred to as the "CITY," party of the first part, and **Contractor, address,** hereinafter referred to as the "Contractor," party of the second part;

WITNESSETH: That the Contractor and the City agree as follows:

1. The following shall be deemed to be part of this contract:
   a. The annexed resolution and legal advertisement of the City Council.
   b. The bid request and specifications, as modified by irreconcilable language in this written contract.
   c. The bid by Contractor, as modified by irreconcilable language in this written contract.
   d. The performance bond and payment bond certification.
   e. All provisions of law applicable to a contract of this nature.

2. The Contractor agrees to furnish and deliver to the Department all labor, supervision, material, equipment, supplies, insurance, performance bond, payment bond and everything else necessary for general construction of Project at location, all in strict accordance with plans and specifications prepared by design co. or city architect, your bid of $ and resolution no. passed on date. Contractor shall not commence performance of any work under this contract until Contractor receives authorization from the City's Purchasing Agent in writing and dated.

3. The City agrees to pay progress payments and make final payments to the Contractor as stated in the contract specifications. The total amount payable under this contract shall not exceed **dollar amount spelled out ($)** unless the contract is modified by formal amendment or change order. Payments under this Agreement shall be made from the following funding and RQ no. Due to the dollar amount of this contract, a Project Labor Agreement is or is not included as part of this contract (City Code Section 2-29).

4. The Contractor shall furnish and maintain in full force and effect until this contract is completely performed by the Contractor, a performance bond and payment bond if and when required by law, or if and when required by the City.

5. Inasmuch as this contract concerns work, materials and equipment needed for the public benefit, the provisions of this contract relating to the time of performance and completion of work and delivery of materials or equipment are of the essence of this contract.

6. The Contractor will defend, indemnify and save the City harmless from all costs, charges, damages, and loss of any kind that may grow out of the matters covered by this contract.

DRAFT

Said obligation does not include indemnification of the City for claims of liability arising out of the sole negligent or intentional acts or omissions of City but shall include but not be limited to the obligation to defend, indemnify and save harmless the City in all cases where claims of liability against the City arise out of acts or omissions of City which are derivative of the negligence or intentional acts or omissions of Contractor such as, and including but not limited to, the failure to supervise, the failure to warn, the failure to prevent such act or omission by Contractor and any other such source of liability. In addition Contractor will comply with all local, state and federal laws, rules and regulations applicable to this contract and to the work to be done and things to be supplied hereunder.

7. Insurance

a. Contractor shall provide the following minimum amounts of insurance from insurance companies authorized to do business in the state of Minnesota, which insurance shall indemnify Contractor and City from all liability described in Paragraph 6 above, subject to provisions below.

(1) Workers' compensation insurance in accordance with the laws of the State of Minnesota.

(2) Public Liability and Automobile Liability Insurance with limits not less than **$1,500,000** Single Limit, and twice the limits provided when a claim arises out of the release or threatened release of a hazardous substance; shall be in a company approved by the city of Duluth; and shall provide for the following: Liability for Premises, Operations, Completed Operations, Independent Contractors, and Contractual Liability.

(3) City of Duluth shall be named as **Additional Insured** under the Public Liability, Excess/Umbrella Liability* and Automobile Liability, or as an alternate, Contractor may provide Owners-Contractors Protective policy, naming itself and the City of Duluth. Contractor shall also provide evidence of Statutory Minnesota Workers Compensation Insurance. Contractor to provide Certificate of Insurance evidencing such coverage with 30-days' notice of cancellation, non-renewal or material change provisions included. The City of Duluth does not represent or guarantee that these types or limits of coverage are adequate to protect the Contractor's interests and liabilities.

**An umbrella policy with a "following form" provision is acceptable if written verification is provided that the underlying policy names the City of Duluth as an additional insured.*

(4) If a certificate of insurance is provided, the form of the certificate shall contain an unconditional requirement that the insurer notify the City without fail not less than 30 days' prior to any cancellation, non-renewal or modification of the policy or coverages evidenced by said certificate and shall further provide that failure to give such notice to City will render any such change or changes in said policy or coverages ineffective as against the City.

(5) The use of an "ACORD" form as a certificate of insurance shall be accompanied by two forms – 1) ISO Additional Insured Endorsement (CG-2010 pre-2004) and 2) Notice of Cancellation Endorsement (IL 7002) or equivalent, as approved by the Duluth City Attorney's Office.

b. The insurance required herein shall be maintained in full force and effect during the life of this Agreement and shall protect Contractor, its employees, agents and representatives from claims and damages including but not limited to personal injury and death and any act or failure to act by Contractor, its employees, agents and representatives in the negligent performance of work covered by this Agreement.

c. Certificates showing that Contractor is carrying the above described insurance in the specified amounts shall be furnished to the City prior to the execution of this Contract and a certificate showing continued maintenance of such insurance shall be on file with the City during the term of this Contract.

d. Contractor shall be required to provide insurance meeting the requirements of this Paragraph 7 unless Contractor successfully demonstrates to the satisfaction of the City Attorney, in the exercise of his or her discretion, that such insurance is not reasonably available in the market. If Contractor demonstrates to the satisfaction of the City Attorney that such insurance is not reasonably available, the City Attorney may approve an alternative form of insurance which is reasonably available in the market which he or she deems to provide the highest level of insurance protection to the City which is reasonably available.

8. No claim whatsoever shall be made by the Contractor against any officer, agent or employee of the City for, or on account of, anything done, or omitted to be done, in connection with this contract. If this contract is not made in conformity with mandatory provisions of any statute or of the ordinances and charter of the City of Duluth, the Contractor agrees to raise no defense and make no claim against the City on the basis of ratification, laches, estoppel, or implied contract.

9. The Contractor shall not assign, transfer, convey or otherwise dispose of this contract, or his right to execute it, or his right, title or interest in or to it, or any part thereof, without the consent of the City, evidenced by a resolution duly adopted by the City Council. The prohibition contained in this paragraph shall not be deemed to prevent the contractor from subcontracting. Contractor shall remain primarily responsible for all work performed by any subcontractor.

10. The Contractor agrees that in the hiring of common or skilled labor for the performance of any work under this contract, Contractor will not discriminate by reason of race, creed or color, religion, national origin, sex, marital status, status with regard to public assistance, disability or age.

11. The Contractor agrees that Contractor shall not in any manner discriminate against or intimidate or prevent the employment of any person or persons, or on being hired, prevent or conspire to prevent any person or persons from the performance or work under this contract on account of race, creed or color, religion, national origin, sex, marital status, status with regard to public assistance, disability or age.

12. The contractor agrees that, as provided in Minnesota Statutes 16C.05, Subd. 5, contractor's books, records, documents, and accounting procedures and practices are subject to examination by the City or the state auditor for six years from the date of final payment under this contract.

13. This contract may be cancelled or terminated by the City and all moneys due or to become due hereunder may be forfeited for any failure to perform any terms or conditions of this contract including but not limited to any violation of the terms or conditions of Section 10 or 11 of this contract.

14. Any waiver by any party of any provision of this contract shall not imply a subsequent waiver of that or any other provision.

15. This contract is made in the state of Minnesota and shall be construed and interpreted in accordance with the laws of the State of Minnesota. The appropriate venue and jurisdiction for any litigation hereunder shall be in a court located in St. Louis, County, Minnesota, and the parties to this Agreement waive objection to the jurisdiction of this court, whether based on convenience or otherwise.

16. This Agreement constitutes the entire agreement between the City and the Contractor on the subject matter hereof. It may not be changed, modified, discharged or extended except by written instrument duly executed on behalf of the City and the Contractor. The Contractor agrees that no representations or warranties made by the City shall be binding upon the City unless expressed in writing herein.

17. This Agreement shall not be in force and effect, or in any way binding upon the City until the same shall have been approved by the Department Head, signed by the Mayor, attested by the Clerk, and countersigned by the City Auditor.

18. The Contractor unconditionally guarantees to perform all work pursuant to this contract in a good and workmanlike manner, in strict compliance with the specifications and instructions hereto attached, and to the satisfaction of the City of Duluth.

19. This Agreement may be executed in counterparts, each of which shall be deemed to be original and all of which together shall constitute the binding and enforceable agreement of the parties hereto. This Agreement may be executed and delivered by a party by facsimile or PDF transmission, which transmission copy shall be considered an original and shall be binding and enforceable against such party.

Countersigned:

_____
City Auditor
Approved this_____day of _____

_____
Department Director
Approved this_____day of _____

_____
Purchasing Agent
Approved this_____day of _____

_____
Assistant City Attorney
Approved this_____day of _____

CITY OF DULUTH-Client

By

_____
Mayor

Attest:

_____
City Clerk
Attested this_____day of _____

CONTRACTOR/COMPANY
Contractor

By

_____
Company Representative

Its

_____
Title of Representative
Approved this_____day of _____

CITY OF DULUTH - PART II -

SUPPLEMENTARY GENERAL CONDITIONS FOR FEDERALLY, STATE OF MINNESOTA, AND/OR CITY ASSISTED ACTIVITIES

(revised 4/15/11)

The following conditions take precedence over any conflicting conditions in this Contract.

Section	Title
1	Restrictions on Disbursements, Subcontractors Federal Agency Requirements, Separability, Property
2	Miscellaneous Provisions
3	Definitions
4	Environmental Provisions
5	Contract Compliance
6	Records, Reports and Information, Audits and Inspections
7	Conflict of Interest and Lobbying
8	Labor Standards - Physical Improvement Projects
9	Minnesota Department of Transportation Specification 1960 Partial Payments
10	Housing and Urban Development (HUD) Section 4010
11	Equal Opportunity and Affirmative Action
12	Employment Opportunities - "HUD Section 3"
13	Federal Requirements for Minority/Women Business Enterprises Contract Guidance - MPFA
14	Forms

E-Mail Addresses

For ease in communication, the e-mail address of the person(s) responsible for preparing certified payroll reports (CPRs) is required from the prime contractor and all subcontractors (regardless of tier). This information will be provided to the project engineer prior to the pre-construction meeting OR with materials required in the Letter of Intent.

Section I

Restrictions on Disbursements

No money under this Contract shall be disbursed by the City to any Contractor except pursuant to a written contract which incorporates the applicable PART II, Supplementary General Conditions for Federally, State of Minnesota, and/or City Assisted Activities, and unless the Contractor is in compliance with the Federal Agency requirements with regard to accounting and fiscal matters to the extent they are applicable.

Subcontractors

(A) The Contractor shall include in any subcontract the clauses set forth in the PART II, Supplementary General Conditions for Federally, State of Minnesota and/or City Assisted Activities in their entirety and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts which they may enter into, together with a clause requiring this insertion in any further subcontracts that may in turn be made.

(B) The Contractor shall not subcontract any part of the work covered by this Contract or permit subcontracted work to be further subcontracted without the City's prior written approval of the subcontractors. The City will not approve any subcontractor for work covered by this Contract who is at the time ineligible under the provisions of any applicable regulations issued by a Federal Agency or the Secretary of Labor, United States Department of Labor, to receive an award of such subcontract.

Federal Agency Requirements

Unearned payments under this Contract may be suspended or terminated upon refusal to accept any additional conditions that may be imposed by the Federal Agency at any time; or if the grant, if applicable, to the City under which this Contract is made is suspended or terminated.

Separability

If any provisions of this Contract is held invalid, the remainder of this Contract shall not be affected thereby if such remainder would then continue to conform to the terms and requirements of applicable law.

Property

Acquisition, use, and disposal of all property, materials and goods acquired as a result of activities made possible by this Contract shall be accomplished in accordance with the applicable provisions of Federal Management Circular (FMC)-74-7, as amended.

Section 2

Miscellaneous Provisions

(A) **Copyrights.** In the event this Contract results in a book or other copyrightable material, the author is free to copyright the work, but Federal Agency and the City reserve a royalty-free, nonexclusive, and irrevocable license to reproduce, publish or otherwise use, all copyrighted material and all material which can be copyrighted.

(B) **Patents.** Any discovery or invention arising out of or developed in the course of work aided by this Contract shall be promptly and fully reported to the Federal Agency and the City for determination by the Federal Agency as to whether patent protection on such invention or discovery shall be sought and how the rights in the invention or discovery, including rights under any patent issued thereon, shall be disposed of and administered in order to protect the public interests.

(C) **Political Activity Prohibited.** None of the funds, materials, property or services provided directly or indirectly under this Contract shall be used in the performance of this Contract on any partisan political activity, or to further the election or defeat of any candidate for public office.

(D) **Lobbying Prohibited.** None of the funds under this Contract shall be used for publicity or propaganda purposes designed to support or defeat legislation pending before the Congress or the City.

(E) **Prohibition of and Elimination of Lead-Based Paint Hazard.** Notwithstanding any other provision, the Agency and Contractor agree to comply with the regulation issued by the Secretary of Housing and Urban Development set forth in 37 F. R. 22732-3 and all applicable rules and orders issued thereunder which prohibit the use of lead-based paint in residential structures undergoing Federally assisted construction or rehabilitation and require the elimination of lead-based paint hazards. Every contract or subcontract, including paint, pursuant to which such Federally assisted construction or rehabilitation is performed shall include appropriate provisions prohibiting the use of lead-based paint.

(F) **Architectural Barriers Act.** The design for and construction of any facility funded in whole or in part by this Contract shall be in conformance with the American Standard Specification for Making Buildings and Facilities Accessible and Usable by the Physically Handicapped, Number A-117.1-1971, as modified.

(G) **Relocation and Acquisition.** Any relocation or acquisition resulting from activities funded in whole or in part by this Contract shall be in conformance with the provisions of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (40 U.S.C. 4601) and the implementing regulations 24CFR Part 42.

(H) **Prohibition Against Payments of Bonus or Commission.** The assistance provided under this Contract shall not be used in the payment of any bonus or commission for the purpose of obtaining Federal Agency approval for such assistance, or Federal Agency approval of applications for additional assistance, or any other approval or concurrence of a Federal Agency required under this Contract, Federal Law or Federal Regulations thereto; provided, however, that reasonable fees or bonafide technical, consultant, managerial or other such services, other than actual solicitation, are not hereby prohibited if otherwise eligible as project costs.

(I) **Hatch Act.** Where applicable, the Contractor will comply with the provisions of the Hatch Act which limits the political activity of the Contractor's employees.

Section 3
Definitions

(A) City means the City of Duluth, Contracting Officer, or other persons authorized to act on behalf of the City of Duluth.

(B) Contracting Officer is the delegated representative of the City who has the responsibility for administering the Project.

(C) Contractor means an entity, whether public or private, which furnishes (other than standard commercial supplies, office space or printing services) to the City, products, services or supplies as described in this project Contract.

(D) Federal Agency means the United States, the District of Columbia, and any executive department, independent establishment, administrative agency, or instrumentality of the United States or of the District of Columbia, including any corporation, all or substantially all of the stock of which is beneficially owned by the United States, by the District of Columbia, or by any of the foregoing departments, establishments, agencies, and instrumentalities. The term Federal Agency shall also include the person or persons authorized to act on behalf of said Federal Agency.

(E) Project means the activities to be undertaken by the Contractor as described in this Contract, which from time to time may be amended by mutual consent of the City and Contractor.

(F) Subcontractor means an entity, regardless of tier, which has entered into an agreement with the Contractor or another Subcontractor, to undertake certain Project activities as described in that agreement.

(G) The term labor standards, as used in the Contract, means the requirements of the Davis-Bacon Act, the Contract Work Hours and Safety Standards Act (other than those relating to safety and health), the Copeland Act, and the prevailing wage provisions of the other statutes listed in 20 CFR 5.1.

(H) Work means all labor necessary to produce the construction required by the Contract Documents, all materials and equipment incorporated or to be incorporated in such construction, products, services, or supplies required by the Contract Documents, or any other requirements set forth in the Contract.

(I) Additional Definitions, that are applicable to the Labor Standards provisions - Section 8 - of this Contract can be found in 29CFR5.2 as published by the U.S. Department of Labor and said definitions are hereby incorporated by reference into the provisions of this Contract.

Section 4
Environmental Provisions

(A) The Contractor agrees to follow the regulations, requirements, policies, goals and procedures set forth by the Council on Environmental Quality (CEQ) under provisions of the National Environmental Policy Act (NEPA) (Pub. L 91-190, 42 U.S.C. 4321 et seq.), Executive Order 11514, and 40 CFR Part 1500.

(B) **Historic Properties.** The Contractor agrees to follow the regulations, requirements, policies, goals, and procedures set forth under provisions of the National Historic Preservation Act of 1966 (Pub. L. 89-665); Preservation of Historic and Archeological Data Act of 1974 (Pub. L. 93-291); Executive Order 11593; 36 CFR , Part 800 and applicable State legislation or regulations.

(C) **Coastal Zones and Wetlands.** The Contractor agrees to follow the regulations, requirements, policies, goals and procedures set forth under provisions of the Coastal Zone Management Act of 1972 (Pub. L. 92-583) and applicable State legislation or regulations.

(D) **Noise.** The Contractor agrees to comply with provisions set forth in the U.S. Department of Housing and Urban Development Handbook 1390.2, Noise Abatement and Control, Department Policy, Responsibility and Standards, 1971.

(E) **Flood Plain.** The Contractor agrees to comply with the provisions set forth in the Flood Disaster Protection Act of 1973 (Pub. L. 93-234) and implementing regulations; Title 24, Chapter X, Subchapter B, National Flood Insurance Program, Executive Order 11296, and Executive Order 11988 relating to the evaluation of flood hazards.

(F) **Air Quality.** The Contractor agrees to comply with provisions set forth in the Clean Air Act (Pub. L. 90-148) and Clean Air Act Amendments of 1970 (Pub. L. 91-604); and applicable U.S. Environmental Protection Agency implementing regulations.

(G) **Water Quality.** The Contractor agrees to comply with the provisions set forth in the Federal Water Pollution Control Act (Pub. L. 92-500) and applicable U.S. Environmental Protection Agency implementing regulations, and Executive Order 11288 relating to the prevention, control, and abatement of water pollution.

(H) **Wildlife.** The Contractor agrees to comply with the provisions of the Fish and Wildlife Coordination Act (Pub. L. 85-264).

Section 5
Contract Compliance

(A) In the event of the Contractor's noncompliance with the provisions of this Contract or with any of the said regulations, the City may withhold payment(s) until evidence of compliance by the Contractor has been demonstrated, or the Contract may be canceled, terminated or suspended in whole or in part and the Contractor may be declared ineligible for further City contracts.

(B) In the event the Contract is terminated or canceled as a result of noncompliance with any of the provisions of this Contract, the City may subject to bids the remainder of the Project for which this Contract was made. The City shall have the right upon termination or suspension to withhold all further payments under this

Contract to the Contractor. Upon the award of a new contract for the remainder of the Project, the City shall pay to the Contractor an amount no more than the balance remaining due to the Contractor less the sum of the costs incurred by the City which are necessary in preparing the new bid specifications. In the event the amount paid the Contractor prior to the date of termination or cancellation exceeds the full amount of this Contract less the cost of the new contract and the additional costs mentioned above, the Contractor agrees to reimburse the City for such excess amount within ninety days after the new contract is awarded by the above procedures.

(C) Provisions contained in subparagraph (A) and (B) above shall not be interpreted as precluding any authorized Federal, State, or County governmental unit from exercising their legal administrative or other responsibilities in respect to the enforcement by said governmental units of laws or regulations concerning activities of the Contractor.

Section 6

Records

(A) **Establishment and Maintenance of Records.** Records shall be maintained in accordance with requirements prescribed by the Federal Agency or the City with respect to all matters covered by this Contract. Except as otherwise authorized by the Federal Agency, such records shall be maintained for a period of three years after receipt of final payment under this Contract.

(B) **Documentation of Costs.** All costs shall be supported by properly executed payrolls, time records, invoices, contracts, or vouchers, or other official documentation evidencing in proper detail the nature and propriety of the charges. All checks, payrolls, invoices, contracts, vouchers, orders, or other accounting documents pertaining in whole or in part to this Contract shall be clearly identified and readily accessible.

Reports and Information

At such times and in such forms as the Federal Agency or the City may require, there shall be furnished to the Federal Agency or the City such statements, records, data and information as the Federal Agency or the City may request pertaining to matters covered by this Contract.

Audits and Inspection

At any time during normal business hours and as often as the City, the Federal Agency and/or the Comptroller General of the United States may deem necessary, there shall be made available to the City, the Federal Agency and/or representatives of the Comptroller General for examination of all its records with respect to all matters covered by this Contract and will permit the City, the Federal Agency and/or representative of the Comptroller General to audit, examine and make excerpts or transcripts from such records, and to make audits of all contracts, invoices, materials, payrolls, records of personnel, conditions of employment, and other data relating to all matters covered by this Contract.

Section 7

Conflict of Interest and Lobbying

(A) **Interest of Members, Officers, or Employees of the City, Members of Local Governing Body, or Other Public Officials.** No member, officer, or employee of the City, or its designees or agents, or member of the governing body of the City, during his/her tenure of for one year thereafter, shall have any interest, direct or indirect in any contract or subcontract, or the proceeds thereof, for work to be performed in connection with the Project assisted under this Contract. Any contract in which any of the above indicated individuals becomes directly or indirectly, interested, personally or as a member of a firm, or as an officer, director, or stockholder of a corporation, shall be and become absolutely void; and any money which shall have been paid on such contract by the City may be recovered back from any or all persons interested therein, by a joint action or several actions.

(B) The Contractor agrees that he will incorporate into every contract required to be in writing the following provisions: **Interest of Contractors and Employees** - The Contractor covenants that he presently has no interest and shall not acquire any interest, direct or indirect, in the Project which would conflict in any manner or degree with the performance of this Contract, and no person having any conflicting interest shall be employed. Any interest on the part of the Contractor or his employees must be disclosed to the Federal Agency and the City. Provided, however, that this paragraph shall be interpreted in such a manner so as not to unreasonably impede any statutory requirements that opportunity be provided for employment of and participation by certain residents of a designated geographical are, if applicable.

(C) **Interest of Member or of Delegate to Congress.** No member of or Delegate to Congress, or Resident Commissioner, shall be admitted to any share or part of this Contract or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this Contract if made with a corporation for its general benefit.

(D) The Contractor by signing this document certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the Contractor, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the Contractor shall complete and submit Standard Form -LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

The above certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1332, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

(E) The parties to this Contract certify and agree that they are under no contractual or other disability which would prevent them from complying with the terms of this Contract.

Section 8

Labor Standards - Physical Improvement Projects

Where applicable, there shall be included in all construction, rehabilitation, alteration or repair contracts with private entities made possible by or resulting from this Contract, the following Labor Standards provisions;

(A) **General Requirements.**

(1) **Subcontracts.** The Contractor shall include in any subcontract the clauses set forth in Section 8, **Labor Standards**, in their entirety and also a clause requiring the subcontractors to include these clauses in any Tower tier subcontract which they may enter into, together with a clause requiring this insertion in any further subcontracts that may in turn be made.

(2) The transporting of materials and supplies to or from the site of the Project or Program to which this Contract pertains by the Employees of the Contractor or of any subcontractor, and the manufacturing or furnishing of materials, articles, supplies, or equipment on the site of the Project or Program to which this Contract pertains by persons employed by the Contractor or by any subcontractor, shall for the purpose of this Contract, and without limiting the generality of the foregoing provisions of this Contract, be deemed to be work to which these **Labor Standards** provisions are applicable.

(3) No person under the age of eighteen years shall be employed on work covered by this Contract.

(4) In connection with the performance of work under this Contract, the Contractor agrees not to employ any person undergoing sentence of imprisonment except as provided by Public Law 89-176, September 10, 1955 (18 U.S.C. 4082 (c) (2)) and Executive Order 11755, December 29, 1973.

(5) The Contractor will permit authorized representatives of the Federal Agency and the City to interview employees during working hours on the job.

(6) No employee to whom the wage, salary, or other **Labor Standards** provisions of this Contract are applicable shall be discharged or in any other manner discriminated against by the Contractor or any subcontractor because such employee has filed any complaint or instituted or caused to be instituted any proceeding or has testified or is about to testify in any proceeding under or relating to the Labor Standards applicable under this Contract to his employer.

(B) **Safety Standards.** No Contractor or subcontractor contracting for any part of a construction contract shall require any laborer or mechanic, including apprentices and trainees, employed in the performance of the Contract to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous to his health or safety, as determined under construction safety and health standards promulgated by the Secretary of Labor. The Contractor or subcontractor comply with all the rules, regulations, and relevant orders, promulgated by the Secretary of Labor pursuant to Public Law 91-54.

(C) **Davis-Bacon Act - 29 CFR 5.5**

web site: http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&tpl=/ecfrbrowse/Title29/29cfr5_main_02.tpl

Refer to Section 10, Page 10 Housing and Urban Development (HUD) form-4010 (06/2009) Ref Handbook 1344.1

City of Duluth "Mini Davis-Bacon"

(D) **City of Duluth - Minimum Wage Ordinance 8940, as Amended.**

(1) On a project (as defined below) funded in whole or in part by federal and/or state funds and/or city of Duluth funds, these local provisions shall prevail in those instances where the requirements of the local provisions are equal to or greater than similar minimum labor standards provisions as set forth in applicable federal and/or state laws and regulations.

(2) In all contracts in excess of $2,000 for projects (as defined below), the Contractor's particular attention is called to Ordinance 8940, effective June 8, 1989, respectively coded as Article IV of Chapter 2 of the Duluth City Code, and entitled "An Ordinance Pertaining to Wages and Working Hours of Persons on Public Works in the City of Duluth", as set forth below:

(3) **Definitions.**

For the purposes of this section the following words and phrases shall have the meanings respectively ascribed to them in this section:

(a) **Basic hourly rate** - The hourly wage paid to any employee.

(b) **Prevailing wage rate** - The basic hourly rate plus fringe benefits prevailing in the city of Duluth as determined by the United States secretary of labor pursuant to the Davis-Bacon act, as amended; provided that whenever employer and employee organizations employing and representing a majority of a class of workers in a particular industry within the city jointly certify that the prevailing basic hourly rate plus fringe benefits of such workers differs from the amount determined by the secretary of labor, the certified rate shall be considered to be the prevailing wage rate for such class of workers in that industry.

(c) **Fringe benefits** - Employer contribution for health and welfare benefits, vacation benefits, pension benefits, and all other economic benefits other than the basic hourly rate.

(d) **Apprentice** - An employee who is working under a training program which is approved either by the U.S. Department of Labor Bureau of Apprenticeship & Training or the Minnesota Director of Voluntary Apprenticeship; see apprentice ratios on pages 6-7 and HUD 4010 in Section 10.

(e) **Trainee** - An employee registered with the U. S. Department of Labor Employment & Training Administration; see HUD 4010 in Section 10.

(e) **Project** - Erection, construction, demolition, painting, remodeling or repairing of any public building, highway, sidewalk, bridge, water or gas line, sewer and sewage treatment facility or other public work performed under contract with the city.

(f) **Labor, mechanic** - All persons utilized, employed or working on a project who are doing work usually done by mechanics and laborers, including proprietors, partners, and members of cooperatives.

(4) **Wage Rates and Hours for City of Duluth Projects.**

(a) Any contract which provides for a project of estimated total cost of over $2,000.00 shall contain a stipulation that no laborer, mechanic or apprentice-trainee employed directly upon the project work site by the contractor or any subcontractor shall be permitted or required to work at a rate of pay less than the prevailing wage rate; nor shall any such employee be permitted or required to work more than 8 hours in any work day **OR** 40 hours in any work week unless he is paid at a rate of at least 1½ times the basic hourly rate for all hours in excess of 8 per day **OR** 40 per week [in other words: all hours in excess of eight per day and all hours after 40 per week] and unless he receives fringe benefits that are at least equal to those in the prevailing wage rate; provided that whenever employer and employee organizations employing and representing a majority of a class of workers in a particular industry within the city jointly certify that the maximum number of hours that such persons may work under existing labor agreements before overtime wages must be paid differs from the hours specified in this paragraph, the maximum number of hours specified in such labor agreements shall be substituted for those specified above in applying the provisions of this paragraph to such workers.

(b) The word "or" in the state statute and the city of Duluth Code refers to the number of hours worked in any one week or, in the alternative, the number of hours worked in any one day in the week (the days in one week being totaled for reporting purposes); the law requires use of the alternative which results in the higher number of overtime hours for each employee whose time is being reported.

EXCEPTIONS: Federal government funding only and HUD (Housing and Urban Development) funding - see point "e'

In summary, if a project is solely funded with city of Duluth monies, city ordinance 8940 as amended allows the employees to work four ten-hour days and be paid at the regular hourly rate for those ten hours; exceeding hours must be paid at the overtime rate. An employer may not withhold overtime payment exclusively until 40 hours per week have been worked. Daily overtime must be paid as it is earned.

- **The base workweek hours must be clearly indicated on each payroll. Employees may be assigned a different workweek; however, that must be clearly marked beside the employees' names.**

The following are examples of how these rules apply to different situations.

TT refers to the total time worked on the day or in the week
RT refers to the hours worked at the regular rate of pay (straight time)
OT refers to the hours worked for which overtime must be paid

State Funded with or without federal funding Projects — City-only Funded Projects (4 ten-hour days)

	Mon	Tues	Wed	Thurs	Fri	Sat	Total		Mon	Tues	Wed	Thurs	Fri	Sat	Total
TT	10	10	10	10	0	6	46		10	10	10	10	0	6	46
RT	8	8	8	8	0	6	38		10	10	10	10	0	0	40
OT	2	2	2	2	0	0	8		0	0	0	0	0	6	6

State Funded with or without federal funding Projects — City-only Funded Projects (4 ten-hour days)

	Mon	Tues	Wed	Thurs	Fri	Sat	Total		Mon	Tues	Wed	Thurs	Fri	Sat	Total
TT	0	10	10	0	7	0	27		10	0	12	0	0	0	32
RT	0	8	8	0	7	0	23		10	0	10	10	0	0	30
OT	0	2	2	0	0	0	4		0	0	2	0	0	0	2

c) **Overtime Calculations**

Minnesota Statutes Chapter 177.42, subd 4 specifies that the prevailing hours of labor may not be more than eight hours per day or more than 40 hours per week (as stated above in (b), the City of Duluth does allow for ten hours per day/40 hours per week with City funding *only*. Example: hours exceeding eight per day are paid at 1.5 times the rate in the contract's wage decision OR the base rate the employee is being paid if it is higher than the required base rate; once 40-hours in any one week are attained, all hours exceeding that 40 are paid at 1.5 times the rate in the project contract's wage decision. See example (1) and (2) below.

Minnesota Statutes Chapter 177.42, subd 5 defines the hourly basic rate as the hourly wage paid to any employee. (subd 6): The prevailing wage rate means the hourly basic rate of pay plus the contribution for health and welfare benefits, vacation benefits, pension benefits, and any other economic benefit paid to the largest number of workers engaged in the same class of labor within the area...

Minnesota Statutes Chapter 177.43, subd 1 (1) ...employees are permitted to work more hours than the prevailing hours of labor [being] paid for all hours in excess of the prevailing hours at a rate of at least 1-½ times the hourly basic rate of pay. (2) A laborer or mechanic may not be paid a lesser rate of wages than the prevailing wage rate in the same or most similar trade or occupation in the area.

An employer may pay a lower **regular time/straight time** hourly rate and higher fringe benefit rate--to a bona fide plan--than stated in the contract's wage decision providing the total of the two rates is equal to or greater than the total in the wage decision; however, the **OVERTIME rate** must be paid on the higher rate in the contract's wage decision.

(1) Overtime Calculation with Fringe Benefits Paid to Bona Fide Plans

For overtime purposes, an employer paying higher fringe benefits to a bona fide plan and paying a lower hourly rate MUST calculate the overtime on the higher hourly rate as stated in the project contract's wage decision. The fringe benefit amount may be reduced to reflect any increase in the total prevailing wage package IF the plan administrator permits such a reduction. This acceptance must be verified in writing by the plan administrator and attached to the appropriate certified payroll report.

(2) Overtime Calculation with Cash Payment of Fringe Benefits

When the fringe benefit is paid directly to an employee, the prevailing base rate and the fringe benefit rate as established in the project contract's wage decision for a specific classification are totaled to arrive at the hourly rate. *Overtime is calculated at 1.5 x the base rate of the wage decision with the fringe benefit amount added to that rate: base rate of the wage decision x 1.5 + fringe benefit rate = overtime rate.*

Contract Work Hours and Safety Standards Act

[Refer to page two of this document.] All projects valued at $100,000 or greater are subject to this Act. As with Minnesota Statutes Chapter 177.43, the overtime rate is calculated as in items one and two above OR (e) below.

(d) A contractor shall not reduce a worker's private, regular rate of pay when the wage rate certified by the U. S. Department of Labor or the Minnesota Department of Labor & Industry is less than the worker's normal hourly wage [Minnesota Statute 181.03 subdivision 1(2)].

(e) **Regular Time & Overtime Definitions**

• **State of Minnesota** funded projects with or without federal funding *only allow for five eight-hour days per week at regular time.* Overtime is calculated at a rate not less than time and one-half (1.5) of the prevailing base rate as stated in the wage decision OR the base rate the employee is being paid if it is higher than the required base rate--plus the straight time fringe benefit amount. (see (1) above for example when a lower base rate and higher fringe are paid)

• **City of Duluth** funded projects do permit four ten-hour work days at regular time–see point 4-a, b for stipulations. Overtime is calculated at a rate not less than time and one-half (1.5) of the prevailing base rate as stated in the wage decision--OR the base rate the employee is being paid if it is higher than the required base rate--plus the straight time fringe benefit amount. (see (1) above for example when a lower base rate and higher fringe are paid)

• **Federal** funded only projects allow overtime pay for hours worked in excess of 40 in a workweek at a rate not less than time and one-half (1.5) of the prevailing base rate as stated in the wage decision OR the base rate the employee is being paid if it is higher than the required base rate--plus the straight time fringe benefit amount.

• **HUD** funded projects allow overtime pay for hours worked in excess of 40 in a workweek at a rate not less than time and one-half (1.5) of the prevailing base rate as stated in the wage decision OR the base rate the employee is being paid if it is higher than the required base rate--plus the straight time fringe benefit amount.

** When a combination of funding sources are included in any one project, the most strict requirements will apply.

(f) The minimum hourly prevailing wages are contained in each project specification. When both federal (general decision rates from the U. S. Department of Labor) and State of Minnesota prevailing wages for state funded construction projects from the Minnesota Department of Labor and Industry are used, the prime contractor and all subcontractors including trucking operations, are required to **pay the higher of the two wages** for all laborers and mechanics [MnDOT Contract Administration Manual, Section 5-591.320].

(g) The prime contractor and any lower-tier subcontractor shall review all wage decisions and compensate a worker according to the type of work performed and at the rate that is the greatest.

(h) State of Minnesota prevailing wages typically list two rates for each classification with two effective dates. Should any City of Duluth contract continue to and past the second effective date, that rate and fringe benefit will be in effect through the remainder of the project.

(i) **Mn/DOT Statement of Compliance is required on all city of Duluth construction projects (regardless of the project funding source) with each weekly certified payroll report.** web site: http://dot.state.mn.us/const/labor/forms.html

(j) All contracts for city projects shall have applicable schedules of prevailing wage rates set forth in the contract. Schedules of applicable prevailing wage rates shall be posted on all project job sites for public review and shall be protected from the weather.

(k) Employees on projects shall be paid at least **weekly**. Fringe benefits shall be paid either in cash or to an employee benefit plan that has been approved by the U.S. Department of Labor. ■ **The fringe benefit package is an integral portion of the prevailing wage. Should the prime contractor or any subcontractor (regardless of tier) become delinquent with any fringe benefit plan administrator's requirements for monthly payment, the monthly estimate(s) may be withheld until the plan payments are made current.** (city ordinance 8940 6-18-89 plus amendments)
See MnDOT Specification 1906 on page nine and Section 5 of this document: Contract Compliance.
See Statement of Compliance and Certified Payroll Report requirements in Section 10, HUD 4010 and web sites in Section 14, Forms.

(l) Any contractor or subcontractor working on a project shall furnish the City with **original** certified payroll reports with **original signatures** relating to the project. Such certified payroll reports shall be **submitted weekly** on U.S. Department of Labor standard forms (WH-347) or their equivalent–using the same format--to the City of Duluth Labor Standards representative. All City of Duluth funded projects must have the base workweek hours indicated on the certified payroll form and/or beside each employee's name (should some employees be working different base workweeks).

(m) No contractor or subcontractor working on a project shall evade or attempt to evade the provisions of this section through the use of non-recognized training programs. The only employees involved in training programs that shall be allowed to work on projects covered by this section shall be apprentice-trainees as defined by this article.

(n) Any person violating the provisions of this section shall be guilty of a misdemeanor with each day of violation constituting a separate offense. In addition, if the prevailing wage rate and accompanying fringe benefit rate is not paid to employees working on a project, the City of Duluth may withhold contract payments to the prime contractor until such deficiencies are corrected. Should fringe benefits be paid to authorized Plans, the payments must be made within the demands of those Plans. Delinquencies may result in withholding of project funds to the prime contractor.

(o) This section shall not apply to contracts for projects where the total cost of the project is less than $2,000.00; nor to materialmen who do no more than deliver materials to the work site, **except** that this section shall apply to employees who deliver asphalt, concrete or mineral aggregate such as sand, gravel or stone where such material is incorporated into the project by depositing the material substantially in place, either directly or through spreaders, from the transporting vehicle.

(5) **Helpers**

A helper may perform work *only* if the helper classification is specified and defined in the federal wage decision and/or State of Minnesota wage decision incorporated into the project contract. Without such a helper classification, the contractor must assign a job classification that is the "same or most similar" [Minnesota Statute 177.44, subdivision 1] and compensate the helper for the actual work performed regardless of the helper's skill level.

(6) **Apprentice Ratios**

Journeyworkers must be on site with the apprentices and their hours must match.

FUNDING SOURCE:

City of Duluth and State of Minnesota with or without Federal funding

- Apprentices are not permitted to work alone under any circumstances.
- Working foremen are acceptable as a journeyworker PROVIDING he/she is in the same classification.
  - » Example: carpenter foreman and carpenter apprentice
- Ratios are determined by the trade's labor agreement.
- In the absence of ratio language, the following State of Minnesota apprenticeship ratios will be applied:
  (apprentice : journeyworker) 1:1 2:4 3:7 4:10, etc.

- Employees working in excess of the allowable ratio must be paid the full journeyworker compensation.
- Out-of-ratio apprentices will be calculated beginning with the **apprentice at the highest level of training** and, then, to less senior apprentices in their rank order.
- Should two or more out-of-ratio apprentices have the same level of training, whomever was on the work site first will receive journeyworker pay; if the apprentices at the same level of training began work on the project site at the same time, hours worked out-of-ratio for which restitution is due will be divided among those apprentices.

Examples:

Four apprentices working unsupervised are on site. [4:0]
Ratio calls for four apprentices and ten journeyworkers [4:10]
Correction: all apprentices will receive the full journeyworker compensation as apprentices are not permitted to work alone.

Three apprentices and two journeyworkers are on site. [3:2]
Ratio calls for three apprentices and seven journeyworkers [3:7]
Two journeyworkers may accompany only one apprentice; therefore, the two highest level apprentices are paid the full journeyworker compensation.
Even though this particular job has three apprentices–the second journeyworker is a mute point; a third journeyworker would also be a mute point in this example.
Correction: the two highest level apprentices are paid the full journeyworker compensation and the third lower level apprentice is considered in ratio.

H U D (CDBG) and Federal funding only

- Apprentices are not permitted to work alone unless the U. S. Department of Labor-approved agreement allows that practice.
- Working foremen are acceptable as a journeyworker PROVIDING he/she is in the same classification.
  » Example: electrician foreman and electrician apprentice
- Ratios are determined by the trade's U. S. Department of Labor-approved agreement.
- In the event of the absence of ratio language in the applicable agreement, the Minnesota Department of Labor ratio of one apprentice for the first journeyworker and one apprentice for each three journeyworkers thereafter will be applied, (i.e., 1:1, 2:4, 3:7, 4:10, etc.).

- The **legal apprentices are those who first came to work on the job site;** in the event that all apprentices begin work on the project site at the same time, hours worked out-of-ratio for which restitution is due will be divided among the apprentices.
- Time cards will be required to substantiate the start times.
- Employees working in excess of the allowable ratio--or for which U. S. Department of Labor-apprentice agreement/certificate is not provided–must be paid the full journeyworker compensation.

Examples:

Four apprentices and one journeyworker are on site. [4:1]
Ratio calls for four apprentices and ten journeyworkers. [4:10]
The first apprentice on site is considered in ratio as one journeyworker may only accompany one apprentice [1:1]; this particular job has four apprentices.
Correction: the second through the fourth apprentices coming on site are paid the full journeyworker compensation.

Six apprentices and two journeyworkers are on site [6:2]
Ratio calls for six apprentices and sixteen journeyworkers [6:16]
The first apprentice on site is considered in ratio as two journeyworkers may only accompany one apprentice; this particular job has six apprentices–the second journeyworker is a mute point.
Correction: the second through sixth apprentices coming on site are paid the full journeyworker compensation.

(7) **Poster Boards**

The prime contractor must construct and display a poster board, which contains all required posters, is legible and is accessible to all workers from the first day of work until the project is 100% complete. Posters must be protected from the weather. Prime contractors are not allowed to place a poster board at an off-site facility location.

(8) **Trucking Issues**

a) For the purpose of sections seven and eight, the term "owner" includes all persons having an ownership interest in the trucking entity or a partnership interest in the trucking entity and has a legal and rightful title to the vehicle(s) or has an approved lease on the vehicle(s). "Operate" means the owner either physically drives the vehicle or hires another to physically drive the vehicle; yet, maintains the right to direct the day-to-day operations of the vehicle.

b) Trucking Operations Definitions: See MN Rule 5200.1106 web site: https://www.revisor.mn.gov/rules/?id=5200.1106

Independent Trucking Operator: an individual or partnership who owns or holds a vehicle under lease and who contracts that vehicle and the owner's services to an entity which provides construction services to a public works project. The individual owns or leases and drives the equipment, is responsible for the maintenance of the equipment, bears all operating costs, determines the details and means of performing the services, and enters into a legally binding agreement that specifies the relationship to be that of an independent contractor and not that of an employee.

Multiple Truck Operations: any legal business entity that owns more than one vehicle and hires the vehicles out for services to brokers or contractors on public works projects. The owners of a trucking firm may either drive the vehicles or hire employees to drive the vehicles. Employee drivers are subject to the appropriate prevailing wage rate. The owner driving a vehicle is obligated to account for the value of his/her services as a driver at the appropriate prevailing wage.

Partnerships: a legal business entity where two or more individuals hold vehicles under lease and contract those vehicles and their services to an entity which provides construction services to a public works project. The partners own or lease the equipment, are responsible for maintenance and all operating costs, drive the equipment, determine the details and means of performing the services, and enter a legally binding agreement that specifies the

relationship to be that of a partner and not that of an employee. All partners are subject to the appropriate prevailing wage per city of Duluth ordinance 8940 as amended.

Corporation: any legal business entity that owns or leases vehicles to provide construction services to public works projects. All individuals are employees of the corporation and subject to the appropriate prevailing wage regardless of title or position.

Broker: an individual or firm who (activities include, but are not limited to):

- contracts to **provide** trucking services [equipment and driver] in the construction industry to users of such services, such as prime contractors and various subcontractors of the prime;
- contracts to **obtain** services from other trucking operations and dispatches them to various assignments;
- receives payment from the users (such as prime contractors and various subcontractors) in consideration for the trucking services provided; and
- makes payment to the providers (trucking operations so contracted with) for their services.

(9) **Specific documentation from trucking operations.**

Independent Trucking Operators

The owner/operator of a truck must submit a copy of his/her commercial driver's license (CDL), cab card, and insurance certificate for each truck the owner/operator drives on each construction project *before commencing work* on that project. These documents must be sent to the prime contractor who will then forward the material to Labor Standards, Engineering Division at the City of Duluth.

Multiple Truck Operators

Weekly certified payrolls and payment of corresponding prevailing wages plus the fringe benefit package will be required for each project where trucks are operating. This covers the owner plus all employees performing work on the project.

Partnerships

Weekly certified payrolls and payment of corresponding prevailing wages plus fringe benefit packages will be required for each project where trucks are operating. This covers all partners of the organization who perform work on the project.

Each partner performing work on a project must submit a copy of his/her commercial driver's license (CDL), cab card, and insurance certificate for the truck being operated with that weekly certified payroll. It is not necessary to repeat such supporting documentation until a different truck is used and/or certificates or licenses have expired.

Employees of the partnership are always reported on a weekly certified payroll and paid the appropriate prevailing wage plus fringe benefit package for the work being performed.

Corporations

All persons employed by the corporation are subject to receive payment of the prevailing wage plus the fringe benefit package for the work performed on a project regardless of title or position. Weekly certified payrolls must be submitted for all work performed on the project.

Brokers

Truck ownership and a **bonafide contract** between the broker and another trucking operation, a prime contractor, or a subcontractor must be identified. Paperwork must be submitted with the month end trucking report to the city of Duluth Labor Standards representative - Engineering. Certified payrolls are not required when the above documentation is provided and approved.

(10) **Month End Trucking Report - ONLY REQUIRED WITH STATE OF MINNESOTA FUNDING**

The Minnesota Department of Transportation Month End Trucking Report Form A and Form B plus Minnesota Department of Transportation Month End Trucking Report Statement of Compliance are *only required on state funded projects*.

A guide for completing the forms including definitions and the reports, themselves, may be downloaded from:

www.dot.state.mn.us/const/labor/forms.html

Payment to the prime contractor may be withheld until documentation is received and approved.

(11) **Truck Rental Rates - ONLY REQUIRED WITH STATE OF MINNESOTA FUNDING**

Truck rental rates are listed in the prevailing wage section of the project specifications.

(12) **Minnesota Rules 5200.1105 and 5200.1106**

These rules are incorporated into this supplementary general conditions part II by reference and are found on these web sites:

www.revisor.mn.gov/rules/?id=5200

(13) **Truck Axles** web site: https://www.revisor.mn.gov/rules/?id=5200.1100

Per Minnesota Rules 5200.1100 Master Job Classifications, a truck "unit" refers to all axles including the steering axle. A tag axle is also counted as one of the axles. Examples: four rear axles plus one steering axle = five axles total one rear axle plus one steering axle = two axles total

(14) **Non-Compliance and Enforcement**

a) The prime contractor shall be liable for any unpaid wages to its workers or those of its lower-tier subcontractors, trucking companies/Multiple Truck Owners (MTO's) and/or Independent Truck Owner/Operator (ITOs) [MnDOT Standard Specifications for Construction, Section 1801].

b) See Section 9, MnDOT Specification 1906 Partial Payments and Section 5, page two of this document.

c) City of Duluth ordinance 8940 as amended.

(15) **IC-134 form - Withholding Affidavit for Contractors**

The IC-134 form will be required from all Multiple Truck Operators, Partnerships, and Corporations performing trucking services on a project before the retainage or all remaining funds can be released. Web site for completing form online: www.mndor.state.mn.us

The form, itself, is found at: and www.taxes.state.mn.us/Forms_and_Instructions/ic134.pdf

(16) **Owners, Supervisors, Foremen listed on certified payrolls.**

All persons working on a City of Duluth project including owners, partners, supervisors, salaried persons, and working foremen who perform laborer and/or mechanic work shall be reported on the weekly certified payroll reports including all data required of any laborer or mechanic. (ordinance 8731, 6/24/85 and 8940 as amended).

(17) **Supporting documentation**.

At his/her discretion, the City of Duluth employee responsible for prevailing wage labor standards may demand proof of payment of the prevailing wage which may include copies of a payroll register, itemized time sheet and matching cancelled check, or any other supporting documents as stipulated. Payment to the prime contractor may be withheld until documentation is received and approved.

(18) **Kickbacks from Public Works employees prohibited**.

No contractor working on a project or other person shall, by force intimidation, or threat of termination of employment, cause any employee working on a project to give up any part of the compensation to which he is entitled under his contract of employment.

Section 9
Minnesota Department of Transportation Specification 1906 Partial Payments
Process For "Withholding Contract Monies" and "Default and Termination of a Contract" 11/5/04

Mn/DOT Specification 1906 Partial Payments describes the Commissioner's authority to withhold funds to protect the Department's interests. In addition, Specification 1808 Default and Termination of a Contract describes the Commissioner's authority to take the prosecution of the work out of the hands of the Contractor.
Additionally, on projects funded in whole or part with federal funds and in accordance with the Required Contract Provisions Federal-Aid Construction Contracts Form – 1273, Section IV, Subpart 6, "Withholding", incorporated into federal aid contracts, the Contracting Officer may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment, advance or guarantee of funds until such violations have ceased.

However, the Department must give the Contractor, and it's Sureties due notice prior to exercising these authorities. The withholding of contract funds, in accordance with Specification 1906 or the Required Contract Provisions Federal-Aid Construction Contracts Form – 1273, Section IV, Subpart 6, "Withholding", should be implemented as soon as a possible prevailing wage violation is recognized. However, Default and Termination of a Contract, in accordance with Specification 1808, should only be exercised as a "last resort" if the Contractor is not willing to comply.

Definitions

(Mn/DOT Standard Specifications for Construction 2000 Edition, Section 1103)
Commissioner: The Commissioner of the Minnesota Department of Transportation, or the chief executive of the department or agency constituted for administration of Contract work with its jurisdiction.
Contractor: The individual, firm or corporation Contracting for and undertaking prosecution of the prescribed work; the party of the second part to the Contract, acting directly or through a duly authorized representative.
Department: The Department of Transportation or the State of Minnesota, or the political subdivision, governmental body, board, commission, office, department, division, or agency constituted for administration of the Contract work within its jurisdiction.

(Form 1273 - 29 CFR, Part 5.1, Definitions)

Contracting Officer: The individual, a duly appointed successor or authorized representative who is designated and authorized to enter into Contracts on behalf of the Federal Agency and/or the City of Duluth.

Important Considerations

1. Upon completion of the work under a contract, the department should consider issuing the final voucher as soon as possible. Failure to finalize a contract expeditiously could result in subsequent claims that would prevent the department from finalizing the contract. However, before the issuance of the final voucher, the department must be able to ensure that the terms of the contract have been satisfied. Failure on the part of the department to ensure compliance could result in the Mn/DOT state aid division retaining funds from the department in accordance with *Minnesota Rules 8820.3000, subpart 5*.

2. On every contract, the department should withhold the final retainage in accordance with the following guidelines: (1) if the total amount of the contract is $1,000,000 or more, the department should retain funds not more than $50,000, (2) if the total amount of the contract is less than $1,000,000, the department should retain 5% of the total contract, (3) retainage should be withheld until the department can ensure that the contractor has met the terms of the contract or until the finalization of the contract.

3. This guide specifies that the department verbally notify the bonding company early in the process. Generally, as a "rule of thumb", notifying the bonding company is usually the "last resort". However, the justification for the early notification is related to the language found in *Minnesota statute 574.31, subdivision 2,* which summarizes that if an individual or the department does not submit a claim on the payment bond within 120 days after the completion of work under the contract, the claim can be denied.

The following are general guidelines that should be followed prior to placing a Contractor in default:

Step 1: Upon verbal or written notification that a possible prevailing wage violation exists, the Department should give written notice to the Contractor regarding the nature of the claim, along with the Department's intent to withhold monies until the claim is investigated and determined to be in compliance. Additionally, the Department should inform the Contractor that the bonding company has been verbally notified of the claim. Please be aware, the Department should ensure employee confidentiality at all times.

Step 2: Upon a preliminary determination surrounding the financial extent of the claim, the Department should consider retaining a "reasonable" portion of one or more partial estimates in accordance with Mn/DOT's 2000 Standard Specifications for Construction, Section 1906; or on federal aid contracts, in accordance with the Required Contract Provisions Federal-Aid Construction Contracts Form – 1273, Section IV, Subpart 6, "Withholding".

Step 3: If it is determined that the claim is valid, the Department should schedule a meeting with the Contractor and attempt to resolve the matter. If the claim is determined to be invalid, the Department should release any partial estimates that may have been held as a result of the claim. However, the Department should continue to withhold the final retainage in accordance with the above-mentioned: *Important Considerations, 2*.

Step 4: If resolution cannot be obtained through a meeting, the Department should order the Contractor, in writing, to complete their obligations under the contract. The letter should clearly state the circumstances under which the Department has deemed that the Contractor has not met the terms of the contract. Additionally, the Department should include a reasonable deadline for this obligation to be completed. A copy of this letter should be forwarded to the Surety, District State Aid Engineer (DSAE), Labor Compliance Unit and the Department's Attorney.

Step 5: In the event that the Contractor does not respond to the Department's written order, the Department should send a similar letter, requesting that the Contractor respond immediately, in writing, regarding the Contractor's intention to comply or not comply with the order. A copy of this letter should be forwarded to the Surety, District State Aid Engineer (DSAE), Labor Compliance Unit and the Department's Attorney.

Step 6: If the Department still does not get a proper response from the Contractor, the Department should write another letter, addressed to both the Contractor and the Surety, specifying all the facts of the alleged breach, demanding that the Contractor, or its Surety, respond satisfactorily within 10 days or the Department may exercise its authority to Default and Terminate the Contract in accordance within/DOT's 2000 Specifications for Construction, Section

1808. It's important to provide sufficient detail so that the Surety understands the situation. This notification should be sent by certified mail. A copy of this letter should be forwarded to the Surety, District State Aid Engineer (DSAE), Labor Compliance Unit and the Department's Attorney.

Step 7: If the Contractor or Surety is unresponsive after 10 days, the Department should consult with their attorney to consider proceeding with Default and Termination of the Contract.

Step 8: Upon termination of the contract, the Department provides a written order to the Surety, requiring the Surety to bring resolution to the prevailing wage violation.

Step 9: The Department places the Contractor on a Non-Responsible Bidder's List and rejects any future awards.

Section 10

Federal Labor Standards Provisions U.S. Department of Housing and Urban Development Office of Labor Relations

Previous editions are obsolete Page 1 of 5 form **HUD-4010 (06/2009**) ref. Handbook 1344.1

Applicability

The Project or Program to which the construction work covered by this contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the provisions applicable to such Federal assistance.

A. 1. (i) Minimum Wages. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section l(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)(iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period.

Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible, place where it can be easily seen by the workers.

(ii) (a) Any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(2) The classification is utilized in the area by the construction industry; and

(3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(b) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and HUD or its designee agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by HUD or its designee to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB control number 1215-0140.)

(c) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and HUD or its designee do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), HUD or its designee shall refer the questions, including the views of all interested parties and the recommendation of HUD or its designee, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)

(d) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii)(b) or (c) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part Previous editions are obsolete Page 2 of 5 form **HUD-4010** (06/2009) ref. Handbook 1344.1 of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)

2. Withholding. HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract In the event of failure to pay any laborer or mechanic, including any apprentice, trainee or helper, employed or working on the site of the work, all or part of the wages required by the contract, HUD or its designee may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased. HUD or its designee may, after written notice to the contractor, disburse such amounts withheld for and on account of the contractor or subcontractor to the respective employees to whom they are due. The Comptroller General shall make such disbursements in the case of direct Davis-Bacon Act contracts.

3. (i) Payrolls and basic records. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in Section l(b)(2)(B) of the Davis-bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5 (a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section l(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs. (Approved by the Office of Management and Budget under OMB Control Numbers 1215-0140 and 1215-0017.)

(ii) (a) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant sponsor, or owner, as the case may be, for transmission to HUD or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i) except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at *http://www.dol.gov./whd/wh347.pdf* or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant sponsor, or owner, as the case may be, for transmission to HUD or its designee, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this subparagraph for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to HUD or its designee. (Approved by the Office of Management and Budget under OMB Control Number 1215-0149.)

(b) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be provided under 29 CFR 5.5 (a)(3)(ii), the appropriate information is being maintained under 29 CFR 5.5(a)(3)(i), and that such information is correct and complete;

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(2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(c) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by subparagraph A.3.(ii)(b).

(d) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under subparagraph A.3.(i) available for inspection, copying, or transcription by authorized representatives of HUD or its designee or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee may, after written notice to the contractor, sponsor, applicant or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and Trainees.

(i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant ',to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding

journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by
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the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under 29 CFR Part 5 shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR Part 3 which are incorporated by reference in this contract

6. Subcontracts. The contractor or subcontractor will insert in any subcontracts the clauses contained in subparagraphs 1 through 11 in this paragraph A and such other clauses as HUD or its designee may by appropriate instructions require, and a copy of the applicable prevailing wage decision, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this paragraph.

7. Contract termination; debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act Requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and HUD or its designee, the U.S. Department of Labor, or the employees or their representatives.

10. (i) Certification of Eligibility. By entering into this contract the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.
(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.
(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001. Additionally, U.S. Criminal Code, Section 1 01 0, Title 18, U.S.C., "Federal Housing Administration transactions", provides in part: "Whoever, for the purpose of . . . influencing in any way the action of such Administration..... makes, utters or publishes any statement knowing the same to be false..... shall be fined not more than $5,000 or imprisoned not more than two years, or both."

11. Complaints, Proceedings, or Testimony by Employees. No laborer or mechanic to whom the wage, salary, or other labor standards provisions of this Contract are applicable shall be discharged or in any other manner discriminated against by the Contractor or any subcontractor because such employee has filed any complaint or instituted or caused to be instituted any proceeding or has testified or is about to testify in any proceeding under or relating to the labor standards applicable under this Contract to his employer.

B. <u>Contract Work Hours and Safety Standards Act.</u> The provisions of this paragraph B are applicable where the amount of the prime contract exceeds $100,000. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which the individual is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in subparagraph (1) of this paragraph, the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subparagraph (1) of this paragraph, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by the clause set forth in sub paragraph (1) of this paragraph.
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(3) Withholding for unpaid wages and liquidated damages. HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contract, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (2) of this paragraph.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in subparagraph (1) through (4) of this paragraph and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (1) through (4) of this paragraph.

C. <u>Health and Safety.</u> The provisions of this paragraph C are applicable where the amount of the prime contract exceeds $100,000.

(1) No laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his health and safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation.

(2) The Contractor shall comply with all regulations issued by the Secretary of Labor pursuant to Title 29 Part 1926 and failure to comply may result in imposition of sanctions pursuant to the Contract Work Hours and Safety Standards Act, (Public Law 91-54, 83 Stat 96). 40 USC 3701 et seq.

(3) The contractor shall include the provisions of this paragraph in every subcontract so that such provisions will be binding on each subcontractor. The contractor shall take such action with respect to any subcontractor as the Secretary of Housing and Urban Development or the Secretary of Labor shall direct as a means of enforcing such provisions.

Section 11

Equal Opportunity Laws and Regulations

(A) In addition to Contract specifications set forth below, the Contractor shall conduct and administer this Contract in compliance with:

(1) Title VI of the Civil Rights Act of 1964 (Pub. L. 88-352) and implementing regulations issued at 24 CFR Part 1;
(2) Title VIII of the Civil Rights Act of 1968 (Pub. L. 90-284), as amended, and implementing regulations;
(3) Section 109 of the Housing and Community Development Act of 1974, as amended; and the regulations issued pursuant thereto (24 CFR Section 570.601);
(4) Section 3 of the Housing and Urban Development Act of 1968, as amended, and implementing regulations of 24 CFR Part 135;
(5) Executive Order 11246, as amended by Executive Order 11375 and 12086 and implementing regulations at 41 CFR Chapter 60;
(6) Executive Order 11063, as amended by Executive Order 12259 and implementing regulations at 24 CFR Part 107;
(7) Section 504 of the Rehabilitation Act of 1973 (Pub. L. 93-112), as amended, and implementing regulations when published for effect;
(8) The Age Discrimination Act of 1975, as amended, (Pub. L. 94-135) and implementing regulations when published for effect;
(9) The Minnesota Human Rights Act of 1974, as amended (Chapter 363).

Equal Opportunity and Affirmative Action

(A) Contractors and Subcontractors that have a work force in excess of fifty (50) employees and a contract in excess of $50,000.00 shall prepare and maintain an appropriate affirmative action plan in accordance with the provisions of 41 CFR 60 "Compliance Responsibility for Equal Opportunity".

(B) Non-segregated Facilities. The Contractor shall certify that he does not maintain or provide for his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The Contractor covenants that he will not maintain or provide for his employees any segregated facilities at any of his establishments, and he will not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. As used in this paragraph the term "segregated facilities" means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, creed, religion, national origin, ancestry, age, marital status, status with respect to public assistance, and/or disability because of habit, local custom, or otherwise.

General Provisions Against Discrimination

(A) In all hiring or employment made possible by or resulting from this Contract, there:

(1) will not be any discrimination against any employee or applicant for employment because of race, color, creed, religion, national origin, ancestry, age, sex, marital status, status with respect to public assistance, and/or disability.

(2) affirmative action will be taken to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, creed, religion, national origin, ancestry, age, sex, marital status, status with respect to public assistance, and/or disability. This requirement shall apply to, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; lay-off or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. There shall be posted in conspicuous places available to employees and applicants for employment, notices setting forth the provisions of this clause. All solicitations or advertisements for employees shall state that all qualified applicants will receive consideration for employment without regard to race, color, creed, religion, national origin, ancestry, age, sex, marital status, status with respect to public assistance, and/or disability.

(B) No person in the United States shall, on the grounds of race, color, creed, religion, national origin, age, sex, marital status, status with respect to public assistance, and/or disability, be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity made possible by or resulting from this Contract. The Contractor and each employer will comply with all requirements imposed by or pursuant to the regulations of the Federal Agency effectuating Title VI of the Civil Rights Act of 1966. The Contractor will note this requirement in all solicitations or advertisements for employees. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

(C) The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice advising the labor union or workers' representative of the Contractor's commitments under these provisions, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(D) The Contractor hereby agrees that he will incorporate into any contract for construction work, or modification thereof, as defined in the regulations of the Secretary of Labor at 41 CFR Chapter 60, which is paid for in whole or in part with funds obtained pursuant to this Contract, the equal opportunity clause which is a part of these Contract Documents.

(E) The Contractor further agrees that he will be bound by the equal opportunity clause and other provisions of 41 CFR Chapter 60, with respect to his own employment practices when he participates in federally assisted construction work: **Provided:** That of the Contractor so participating is a State or Local Government, the above equal opportunity clause is not applicable to any agency, instrumentality, or subdivision of such government which does not participate in work on or under the Contract. Also, the Contractor will make his files available to inspection by appropriate government agencies and shall furnish those reports as may be required by said agencies.

(F) The Contractor agrees that he will assist and cooperate actively with the Federal Agency and the Secretary of Labor in obtaining the compliance of subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that he will furnish the Federal Agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that he will otherwise assist the Federal Agency in the discharge of its primary responsibility for securing compliance.

(G) The Contractor further agrees that he will refrain from entering into any contract or any contract modification subject to Executive Order 11246 of September 24, 1965, with a subcontractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order. In addition, the Contractor agrees that if he fails or refuses to comply with these undertakings, the City or the Federal Agency may take any or all of the following actions: Terminate or suspend in whole or in part this Contract; refrain from extending any further assistance to the Contractor under the Project with respect to which the failure or refusal occurred until satisfactory assurance of future compliance has been received from such Contractor and refer the case to the Department of Justice for appropriate legal proceedings.

Affirmative Action - "Construction Contracts" over $10,000

Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity
(Executive Order 11246)

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.

2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Timetables	Goals for minority participation (percent)	Goals for female participation (percent)
From April 1, 1980 until revised	3.0	6.9

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3 (a), and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the City and to the Director of the Office of Federal Contract Compliance Programs; U.S. Department of Labor, ESA/OFCCP, 16th Floor, 230 South Dearborn Street, Chicago, Illinois, 60604, within 10 working days of award of any construction subcontract and/or subcontract in excess of $10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the contractor and/or subcontractor; employer identification number; estimated dollar amount of the prime contract; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.

4. As used in this Notice, and in the Contract, the "covered area" is all work under a contract currently held with the City of Duluth, Minnesota.

Standard Federal Equal Employment Opportunity
Construction Contract Specifications (Executive Order 11246)

1. As used in these specifications:
   a) "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor; or any person to whom the Director delegates authority;
   b) "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
   c) "Minority" includes:
      (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
      (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
      (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
      (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of $10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. The Contractor is expected to make substantially uniform progress toward its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

6. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.

7. The Contractor shall take specific affirmative action to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.

c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.

d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notices of these programs to the sources compiled under 7b above.

f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

h. Disseminate the Contractor's EEO policy externally by including it any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.

i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitments and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.

k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.

l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

o. Document and maintain a record of all solicitations of officers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.

p. Conduct a review, at least annually, of all supervisor's adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be violation of the Executive Order if a specific minority group of women is underutilized).

10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, creed, religion, national origin, sex, ancestry, age, marital status, status with respect to public assistance and/or disability.

11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.

12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails

to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

Affirmative Action for Handicapped Workers

(applies to contracts in excess of $2,500)

(A) The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap in regard to any position for which the employee or applicant is qualified. The Contractor agrees to take affirmative action to employ, advance in employment and otherwise treat qualified handicapped individuals without discrimination based upon their physical or mental handicap in all employment practices such as the following: Employment, upgrading, demotion or transfer, recruitment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship.

(B) The Contractor agrees to comply with the rules, regulations, and relevant orders of the Secretary of Labor issued pursuant to the Act.

(C) In the event of the Contractor's noncompliance with the requirements of this clause, actions for noncompliance may be taken in accordance with the rules, regulations and relevant orders of the Secretary of Labor issued pursuant to the Act.

(D) The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices in a form to be prescribed by the Director, provided by or through the contracting officer. Such notices shall state the Contractor's obligation under the law to take affirmative action to employ and advance in employment qualified handicapped employees and applicants for employment, and the rights of applicants and employees.

(E) The Contractor will notify each labor union or representative of workers with which it has a collective bargaining agreement or other contract understanding, that the Contractor is bound by the terms of Section 503 of the Rehabilitation Act of 1973, and is committed to take affirmative action to employ and advance in employment physically and mentally handicapped individuals.

(F) The Contractor will include the provisions of this clause in every subcontract or purchase order of $2,500 or more unless exempted by rules, regulations, or orders of the Secretary issued pursuant to Section 503 of the Act, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the Director of the Office of Federal Contract Compliance Programs may direct to enforce such provisions, including action for noncompliance.

Affirmative Action for Disabled Veterans and Veterans of the Vietnam Era

(applies to contracts in excess of $10,000)

(A) The Contractor will not discriminate against any employee or applicant for employment because he or she is a disabled veteran or veteran of the Vietnam era in regard to any position for which the employee or applicant for employment is qualified. The Contractor agrees to take affirmative action to employ, advance in employment and otherwise treat qualified disabled veterans and veterans of the Vietnam era without discrimination based upon their disability or veterans status in all employment practices such as the following: Employment, upgrading, demotion or transfer, recruitment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship.

(B) The Contractor agrees that all suitable employment openings of the Contractor which exist at the time of the execution of this contract and those which occur during the performance of this contract, including those not generated by this contract and including those occurring at an establishment of the Contractor other than the one wherein the contract is being performed but excluding those of independently operated corporate affiliates, shall be listed at an appropriate local office of the State employment service system wherein the opening occurs. The Contractor further agrees to provide such reports to such local office regarding employment openings and hires as may be required.
State and local government agencies holding Federal contracts of $10,000 or more shall also list all their suitable openings with the appropriate office of the State employment service, but are not required to provide those reports set forth in paragraphs (D) and (E).

(C) Listing of employment openings with the employment service system pursuant to this clause shall be made at least concurrently with the use of any other recruitment source or effort and shall involve the normal obligations which attach to the placing of a bona fide job order, including the acceptance of referrals of veterans and non-veterans. The listing of employment openings does not require the hiring of any particular job applicant or from any particular group of job applicants, and nothing herein is intended to relieve the Contractor from any requirements in Executive Orders of regulations regarding nondiscrimination in employment.

(D) The reports required by paragraph (B) of this clause shall include, but not be limited to, periodic reports which shall be filed at least quarterly with the appropriate local office or, where the Contractor has more than hiring location in a State, with the central office of that State employment service. Such reports shall indicate for each hiring location (1) the number of individuals hired during the reporting period, (2) the number of non-disabled veterans of the Vietnam era hired, (3) the number of disabled veterans of the Vietnam era hired, and (4) the total number of disabled veterans hired. The reports should include covered veterans hired for on-the-job training under 38 U.S.C. 1787. The Contractor shall maintain at each hiring location copies of the reports submitted until the expiration of one year after final payment under the contract, during which time these reports and related documentation shall be made available, upon request, for examination by any authorized representatives of the contracting officer of the Secretary of Labor. Documentation would include personnel records respecting job openings, recruitment and placement.

(E) Whenever the Contractor becomes contractually bound to the listing provisions of this clause, it shall advise the employment service system in each State where it has establishments of the name and location of each hiring location in the State. As long as the Contractor is contractually bound to these provisions, and has so

advised the State system, there is no need to advise the State system of subsequent contracts. The Contractor may advise the State system when it is no longer bound by this contract clause.

(F) This clause does not apply to the listing of employment openings which occur and are filled outside of the 50 States, the District of Columbia, Puerto Rico, Guam, and the Virgin Islands.

(G) The provisions of paragraphs (B), (C), (D), and (E) of this clause do not apply to openings which the Contractor proposes to fill from within his own organization or to fill pursuant to a customary and traditional employer-union hiring arrangement for that opening.

(H) As used in this clause:

(1) "All suitable employment openings" includes, but is not limited to, openings which occur in the following job categories: Production and non-production; plant and office; laborers and mechanics; supervisory and non-supervisory; technical; and executive, administrative, and professional openings as are compensated on a salary basis of less than $25,000 per year. This term includes full-time employment, temporary employment of more than 3 days' duration, and part-time employment. It does not include openings which the Contractor proposes to fill from within his own organization or to fill pursuant to a customary and traditional employer-union hiring arrangement nor openings in an educational institution which are restricted to students of that institution. Under the most compelling circumstances an employment opening may not be suitable for listing, including such situations where the needs of the Government cannot reasonably be otherwise supplied, where listing would be contrary to national security, or where the requirement of listing would otherwise not be for the best interest of the Government.

(2) "Appropriate office of the State employment service system" means the local office of the Federal-State national system of public employment offices with assigned responsibility for serving the area where the employment opening is to be filled, including the District of Columbia, Guam, Puerto Rico, and the Virgin Islands.

(3) "Openings which the Contractor proposes to fill from within his own organization" means employment openings for which no consideration will be given to persons outside the Contractor's organization (including any affiliates, subsidiaries, and the parent companies) and includes any openings which the Contractor proposes to fill from regularly established "recall" lists.

(4) "Openings which the Contractor proposes to fill pursuant to a customary and traditional employer-union hiring arrangement" means employment openings which the Contractor proposes to fill from union halls, which is part of the customary and traditional hiring relationship which exists between the Contractor and representatives of his employees.

(I) The Contractor agrees to comply with the rules, regulations, and relevant orders of the Secretary of Labor issued pursuant to the Act.

(J) In the event of the Contractor's noncompliance with the requirements of this clause, actions for noncompliance may be taken in accordance with the rules, regulations and relevant orders of the Secretary of Labor issued pursuant to the Act.

(K) The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices in a form to be prescribed by the Director, provided by or through the contracting officer. Such notices shall state the Contractor's obligation under the law to take affirmative action to employ and advance in employment qualified disabled veterans and veterans of the Vietnam era for employment, and the rights of applicants and employees.

(L) The Contractor will notify each labor union representative of workers with which it has a collective bargaining agreement or other contract understanding, that the Contractor is bound by the terms of the Vietnam Era Veterans Readjustment Assistance Act, and is committed to take affirmative action to employ and advance qualified disabled veterans and veterans of the Vietnam era..

(M) The Contractor will include the provisions of this clause in every subcontract or purchase order of $10,000 or more unless exempted by rules, regulations, or orders of the Secretary issued pursuant to the Act, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the Director of the Office of Federal Contract Compliance Programs may direct to enforce such provisions, including action for noncompliance.

Section 12

Employment Opportunities - "HUD Section 3"

General

These requirements apply to the City of Duluth contracts receiving assistance under the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant (CDBG) Program.

Type of Covered Projects

24CFR570.607 (b) of the HUD CDBG Program Regulations state in part "... that employment and other economic opportunities arising in connection with housing rehabilitation, housing construction, or other public construction projects shall to the greatest extent feasible, and consistent with existing Federal, State, and local laws and regulations be given to low- and very low-income persons.

Thresholds

In accordance with the provisions of 24CFR135.3(a) (3) (ii) (A), the requirements of this Section apply to those recipients as defined at 24CFR135.5 when the amount of this contract exceeds $200,000.

In addition, in accordance with the provisions of 24CFR135.3 (a) (3) (ii) (B), the requirements of this Section apply to any contractor or subcontractor whose contract exceeds $100,000 as a result of assistance provided under this contract.

Requirements (Section 3 Clause)

(A) The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.

(B) The parties to this contract agree to comply with HUD's regulations in 24 CFR part 135, which implement section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 135 regulations.

(C) The contractor agrees to send to each labor organization or representative of workers with which the contractor has a collective bargaining agreement, or other understanding, if any, a notice advising the labor organization or workers' representative of the contractor's commitments under this section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The

notice shall describe the section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.

(D) The Contractor agrees to include this section 3 clause in every subcontract subject to compliance with regulations in 24 CFR part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR part 135. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR part 135.

(E) The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR part 135 require employment opportunities to be directed, were not filled to circumvent the contractor's obligation under 24 CFR part 135.

(F) Noncompliance with HUD's regulations in 24 CFR part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD-assisted contracts.

Section 13

Federal Requirements for Minority/Women Business Enterprises Contract Guidance - MPFA

General

Municipalities that receive loan funding must comply with Federal requirements concerning utilization of Minority Business Enterprises (MBE) and Women's Business Enterprises (WBE). These requirements are designed to encourage the prime contractors to utilize MBEs and WBEs whenever procurement opportunities occur.

Regulation

40 C.F.R. Section 35.3145(d) Application of other Federal Authorities, M/WBE Requirements
Executive Orders No. 11625, 12138 and 12432 - Promoting the use of M/WBEs
Section 129 of Public Law 100-590 - Small Business Administration Reauthorization and Amendment Act of 1988
Regulations detailed in the EPA's *Cross-Cutting Federal Authorities - Clean Water Act State Revolving Fund Program and Safe Drinking Water Act State Revolving Fund Program*

Implementation

The "fair share" target percentage participation proposed for this project is 3.5 percent (3.5%) for MBE and 11.5 percent (11.5%) for WBE.

If the Contractor intends to let any subcontractors for a portion of the work, the Contractor shall take affirmative steps to assure that minority and women businesses are utilized when possible as sources of supplies, equipment, construction and services. Affirmative steps shall include the following:

a) Include qualified minority businesses on solicitation lists.
b) Assure that minority businesses are solicited whenever they are potential sources.
c) When economically feasible, divide total requirements into smaller tasks or quantities so as to permit maximum small and minority business participation.
d) Where the requirement permits, establish delivery schedules, which will encourage participation by minority businesses.
e) Use the services and assistance of the Office of Minority Business Enterprise of the Department of Commerce.

The low bidder will be required to submit to the City of Duluth documentation of his good faith efforts to meet the targeted goals of utilizing MBEs and WBEs.

Section 14 - Forms

Minnesota Department of Transportation and City of Duluth, Minnesota funded certified payroll forms

- MnDOT Prime Contractor's-Subcontractor's Statement of Compliance form (12/2010)
  www.dot.state.mn.us/const/labor/forms.html
- Certified Payroll Forms
  http://www.dol.gov/forms/whd/wh347.pdf
  use front side only

U. S. Department of Housing and Urban Development and federal government funded certified payroll forms

- Statement of Compliance Form & Certified Payroll Forms
  http://www.dol.gov/forms/whd/wh347.pdf
  (use reverse side for Statement of Compliance form)
- MnDOT Prime Contractor's-Subcontractor's Statement of Compliance form (12/2010)
  www.dot.state.mn.us/const/labor/forms.html

Minnesota Department of Transportation Trucking Requirements

- Month End Trucking Report Form A and Form B
- Month End Trucking Report Statement of Compliance
- Definitions, instructions, forms:
  www.dot.state.mn.us/const/labor/forms.html

CITY OF DULUTH

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: That we:

_____
(contractor's name)

(hereinafter called the "Contractor") located at: _____

_____
(contractor's address)

and _____
(surety's name)

(a corporation holding a certificate of the Insurance Commissioner of the State of Minnesota showing that it is authorized to contract as a surety, hereinafter called the "Surety") located at:

_____
(surety's address)

are held and firmly bound unto the City of Duluth (hereinafter called the "Owner"), for the benefit of persons furnishing labor and materials for the contract set forth below, in the penal sum of

_____

Dollars ($_____) for the payment of which we bind ourselves, our heirs, executors and administrators, successors and assigns, for the payment of all labor and materials supplied by any person in the performance of a written contract for the purpose of:

_____

_____

according to plans, profiles, and specifications thereto annexed. A copy of that contract is incorporated herein by reference and is made a part hereof as if fully copied herein.

NOW, THEREFORE, THE CONDITIONS OF THIS OBLIGATION ARE SUCH That,

A) If the Contractor shall make payments, as they may become due, to all persons supplying "labor and materials," as defined in Minnesota Statutes Section 574.26, used directly or indirectly by the Contractor, or his Subcontractor, in the prosecution of the work provided for in the contract,

B) If the Contractor shall indemnify the owner or other claimant for all costs that may accrue on account of the enforcing of the terms of the bond, if action is brought on the bond, including reasonable attorney's fees, in any case where such action is successfully maintained,

Then, this obligation shall be void; otherwise it shall remain in full force and effect.

And, the said Contractor and Surety agree that in accordance with Minnesota Statutes Section 574.26 not only said City, but any person furnishing “labor and materials,” as defined in Minnesota Statutes 574.26, may sue on this bond for their use on account of any sums due them for anything so furnished.

The Contractor and the Sureties do hereby expressly waive any objection that might be interposed as to the right of the Owner to require a bond containing the foregoing provisions, and they do hereby further expressly waive any defense which they or either and any of them might interpose to an action brought hereon by any person, firm, or corporation, including subcontractors, materialmen and third persons, for work, labor, services, supplies or material performed, rendered or furnished as aforesaid, upon the ground that there is no law authorizing the Owner to require the foregoing provisions to be placed in this bond.

And the Surety, for value received, hereby stipulates and agrees that the obligations of the Surety and this bond shall in no way be impaired or affected by any extension of time, modification, omission, addition or change in or to the contract or the work to be performed thereunder, or by any payment thereunder before the time required therein, or by any waiver of any provision thereof, or by any assignment, subletting or other transfer thereof, or of any part thereof, or of any work to be performed, or of any moneys due or to become due thereunder; and the said Surety does hereby waive notice of any and all such extensions, modifications, omissions, additions, changes, payments, waivers, assignments, subcontracts and transfers, and hereby stipulates and agrees that any and all things done and omitted to be done by and in relation to executors, administrators, successors, assignees, subcontractors and other transferees, shall have the same effect as to said Surety as though done or omitted to be done by and in relation to the Contractor.

Signed this _____ day of _____, 20___.

_____
Name of Principal

_____
By

_____
Name of Surety

By _____
Attorney-in-Fact

ACKNOWLEDGEMENTS

State of Minnesota)
) ss. Principal – Individual
County of St. Louis)

This instrument was acknowledged before me on _____
by _____.

Notary Seal _____
Notary Public

State of Minnesota)
) ss. Principal – Corporate or Partnership
County of St. Louis)

This instrument was acknowledged before me on _____
by _____ as _____
of _____.

Notary Seal _____
Notary Public

State of Minnesota)
) ss. Surety
County of St. Louis)

Be It Known, That on this _____ day of _____ A. D., 20___, came before me personally _____, to me personally known, who being by me duly sworn, did say that he/she is the _____ (title) of

_____

the above named corporation which executed the foregoing bond as surety; that the seal affixed to the foregoing instrument is the corporate seal of said corporation; that said instrument was executed in behalf of said corporation, by authority of its Board of Directors; that said corporation hold a certificate of the Insurance Commissioner of the State of Minnesota showing that it is authorized to contract as a surety; and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Notary Seal _____
Notary Public

APPROVED AS TO FORM, CORRECTNESS AND VALIDTY HEREOF

Dated this _____ day of _____, 20 ___

_____

Assistant City Attorney Duluth MN

Dated this _____ day of _____, 20 ___

_____

Finance Director Duluth MN

CITY OF DULUTH

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: That we:

_____
(contractor's name)

(hereinafter called the "Contractor") located at:_____

_____
(contractor's address)

and _____
(surety's name)

(a corporation holding a certificate of the Insurance Commissioner of the State of Minnesota showing that it is authorized to contract as a surety, hereinafter called the "Surety") located at:

_____
(surety's address)

are held and firmly bound unto the City of Duluth (hereinafter called the "Owner"), in the penal sum of _____ Dollars ($_____) for the payment of which we bind ourselves, our heirs, executors and administrators, successors and assigns, for the faithful performance of a written contract for the purpose of:

_____

_____

_____

according to plans, profiles, and specifications thereto annexed. A copy of that contract is incorporated herein by reference and is made a part hereof as if fully copied herein.

NOW, THEREFORE, THE CONDITIONS OF THIS OBLIGATION ARE SUCH That,

A) If the Contractor shall in all respects comply with the terms and conditions of the Contract (which includes the contract documents) and such alterations as may be made in said contract as documents therein provide for, and shall complete the contract in accordance with its terms,

B) If the Contractor shall indemnify, defend and save harmless the owner from all costs, expenses, damages, injury or conduct, want or care or skill, negligence or default, including patent infringement on the part of the Contractor, agents or employees, in the

execution or performance of the contract,

C) If the Contractor shall indemnify the owner for all costs that may accrue on account of the enforcing of the terms of the bond, if action is brought on the bond, including reasonable attorney's fees, in any case where such action is successfully maintained,

D) If the Contractor shall comply with all laws pertaining to doing the work under the contract,

Then, this obligation shall be void; the Contractor and Surety jointly and severally agree to pay to the Owner any difference between the sum to which the Contractor will be entitled on the completion of the contract and that which the Owner may be obliged to pay for the completion of the work by contract or otherwise, and any damages, direct or indirect, or consequential, which the Owner may sustain on account of the work, or on account of the failure of the Contractor to properly and in all things, keep and execute all of the provisions of the Contract, provided however that Surety's liability to pay damages is limited to the amount of the Performance Bond as set forth above.

And, the said Contractor and Surety hereby further bind themselves, their successors, executors, administrators and assigns, jointly and severally, that they will employ and fully protect the said Owner against and will pay any and all amounts, damages, costs and judgements which may be recovered against or which the Owner may be called upon to pay to any person or corporation by reason of any damage arising from the performance of said work, repair or maintenance thereof, or the manner of doing the same, or the neglect of the said Contractor or his agents or servants, or the improper performance of the said work by the Contractor or his agents or servants, or the infringements of any patent rights by reason of the use of any material furnished or work done, as aforesaid, or otherwise. For the purpose of this paragraph, a subcontractor shall be deemed to be the agent or employee of the Contractor to the extent of his subcontract.

The Contractor and the Sureties do hereby expressly waive any objection that might be interposed as to the right of the Owner to require a bond containing the foregoing provisions, and they do hereby further expressly waive any defense which they or either and any of them might interpose to an action brought hereon by any person, firm, or corporation, including subcontractors, materialmen and third persons, for work, labor, services, supplies or material performed, rendered or furnished as aforesaid, upon the ground that there is no law authorizing the Owner to require the foregoing provisions to be placed in this bond.

And the Surety, for value received, hereby stipulates and agrees that the obligations of the Surety and this bond shall in no way be impaired or affected by any extension of time, modification, omission, addition or change in or to the contract or the work to be performed

thereunder, or by any payment thereunder before the time required therein, or by any waiver of any provision thereof, or by any assignment, subletting or other transfer thereof, or of any part thereof, or of any work to be performed, or of any moneys due or to become due thereunder; and the said Surety does hereby waive notice of any and all such extensions, modifications, omissions, additions, changes, payments, waivers, assignments, subcontracts and transfers, and hereby stipulates and agrees that any and all things done and omitted to be done by and in relation to executors, administrators, successors, assignees, subcontractors and other transferees, shall have the same effect as to said Surety as though done or omitted to be done by and in relation to the Contractor.

Signed this _____ day of _____, 20___.

_____
Name of Principal

_____
By

_____
Name of Surety

By _____
Attorney-in-Fact

ACKNOWLEDGEMENTS

State of Minnesota)
) ss. Principal – Individual
County of St. Louis)

This instrument was acknowledged before me on _____
by _____.

Notary Seal

_____
Notary Public

State of Minnesota)
) ss. Principal – Corporate or Partnership
County of St. Louis)

This instrument was acknowledged before me on _____
by _____ as _____
of _____.

Notary Seal

_____
Notary Public

State of Minnesota)
) ss. Surety
County of St. Louis)

Be It Known, That on this _____ day of _____ A. D., 20___, came before me personally _____, to me personally known, who being by me duly sworn, did say that he/she is the _____(title) of _____ the above named corporation which executed the foregoing bond as surety; that the seal affixed to the foregoing instrument is the corporate seal of said corporation; that said instrument was executed in behalf of said corporation, by authority of its Board of Directors; that said corporation hold a certificate of the Insurance Commissioner of the State of Minnesota showing that it is authorized to contract as a surety; and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Notary Seal

_____
Notary Public

APPROVED AS TO FORM, CORRECTNESS AND VALIDTY HEREOF

Dated this _____ day of _____, 20 ___

_____

Assistant City Attorney Duluth MN

Dated this _____ day of _____, 20 ___

_____

Finance Director Duluth MN

General Decision Number: MN170041 02/17/2017 MN41

Superseded General Decision Number: MN20160041

State: Minnesota

Construction Type: Building

County: St Louis County in Minnesota.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.20 for calendar year 2017 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.20 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2017. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/06/2017

1 01/20/2017

2 02/03/2017

3 02/17/2017

ASBE0049-007 06/01/2016

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR (Includes the application of all insulating materials, protective coverings, coatings & finishes to all types of mechanical systems).....	$ 28.77	24.70

BOIL0647-007 01/01/2013

	Rates	Fringes
BOILERMAKER.....	$ 32.40	25.37

BRMN0001-050 05/01/2016

ST LOUIS (Remaining Northern part)

	Rates	Fringes
TILE SETTER.....	$ 24.91	22.52

BRMN0003-008 05/01/2016

ST. LOUIS COUNTY (City of Duluth and South of a line between Townships #54 & #55, 2 miles north of Cotton)

	Rates	Fringes
BRICKLAYER	$ 32.91	22.82

BRMN0003-011 05/01/2016

ST. LOUIS (City of Duluth and south of Township Line 55)

	Rates	Fringes
TILE SETTER	$ 24.91	22.52

BRMN0016-002 05/01/2016

ST. LOUIS COUNTY (North of a line between Townships #54 & #55, 2 miles north of Cotton)

	Rates	Fringes
BRICKLAYER	$ 32.47	23.26

CARP0068-005 07/01/2012

	Rates	Fringes
SOFT FLOOR LAYER.....	$ 30.94	11.75

CARP0361-012 05/01/2016

DULUTH AREA including Alborn, Arnold, Bartlett, Birch, Brookstone, Canyon, Clinton, Culver, Floodwood, Gowan, Island, Kelsey, Lakewood, Meadowlands, Munger, Palmers, Payne, Prasit, Shaw, Taft)

	Rates	Fringes
CARPENTER (Including Acoustical Installation, Drywall Hanging, Form Work & Overhead Door Installation).....	$ 29.97	16.96

CARP0606-001 05/01/2015

EXCLUDING DULUTH AREA

	Rates	Fringes
CARPENTER (Including Acoustical Installation,		

Drywall Hanging, Form Work &

Overhead Door Installation).....$ 29.45 14.37

ELEC0242-012 05/29/2016

ST. LOUIS (South part bounded on the north by the north line of

Kelsey Township extended east & west)

Rates Fringes

ELECTRICIAN.....$ 34.92 25.05

ELEC0294-006 05/29/2016

ST. LOUIS (North part bounded on the south by the south line of

Ellsburg Township, extended east & west)

Rates Fringes

ELECTRICIAN.....$ 35.60 71.72%

ENGI0049-045 05/01/2016

Rates Fringes

OPERATOR: Power Equipment

GROUP 1.....$ 39.14 18.40

GROUP 2.....	$ 38.80	18.40
GROUP 3.....	$ 37.39	18.40
GROUP 4.....	$ 37.05	18.40
GROUP 5.....	$ 36.13	18.40
GROUP 6.....	$ 34.62	18.40
GROUP 7.....	$ 33.50	18.40
GROUP 8.....	$ 31.49	18.40

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Truck & Crawler Crane with 200' of Boom & Over, including Jib ($.50 premium with 300' of Boom & over, including jib); & Tower Crane 250' & Over.

GROUP 2: Truck & Crawler Crane with 150' of Boom, up to but not including 200' of Boom, including Jib; & Tower Crane 200' & Over.

GROUP 3: Traveling Tower Crane; Truck & Crawler Crane, up to but not including 150' of Boom, including Jib; Tower Crane (Stationary) up to 200'; All-Terrain Vehicle Crane, Boom Truck over 100 ft.

GROUP 4: Backhoe/Track/Trackhoe, Hoist (3 drums or more); Overhead Crane (inside building perimeter), Excavator.

GROUP 5: Asphalt Spreader, Bulldozer, Curb Machine, Drill, Forklift, Compressor 450 CFM or over (2 or more machines); Boom Truck up to 100 ft, Loader over 1 cu yd, Hoist (1 or

2 drums); Mechanic; Milling Machine, Roller, Scraper,
Tractor over D2.

GROUP 6: Bobcat/Skid Loader, Loader up to 1 cu. yd., Tractor
D2 or similar size.

GROUP 7: Compressor 600 CFM or over, Crane Oiler.

GROUP 8: Oiler.

IRON0512-018 06/05/2016

	Rates	Fringes
IRONWORKER, ORNAMENTAL, REINFORCING, AND STRUCTURAL.....	$ 31.54	24.90

LABO1091-011 01/01/2016

	Rates	Fringes
LABORER (ASBESTOS ABATEMENT)		
Removal from Floors, Walls & Ceilings.....	$ 29.20	17.43

LABO1091-013 05/01/2012

ST. LOUIS (South of T 55 N)

	Rates	Fringes
Laborers:		
GROUP 1	$ 21.95	14.93
GROUP 2	$ 22.10	14.93
GROUP 3	$ 22.35	14.93
GROUP 4	$ 22.65	14.93

LABORER CLASSIFICATIONS

GROUP 1: Common or General, Asphalt Shoveler, Carpenter Tender, Form Stripping

GROUP 2: Vibrating Plate

GROUP 3: Pipelayer

GROUP 4: Mason Tender (Brick, Cement/Concrete)

LABO1097-008 05/01/2012

ST.LOUIS (North of T 55N)

	Rates	Fringes
LABORER		
GROUP 1	$ 20.62	16.25

GROUP 2.....$ 21.02 16.25

LABORERS CLASSIFICATIONS

GROUP 1 - Common or General, Asphalt Shoveler, Carpenter Tender, Form Stripping, Mason Tender (Brick, Cement/Concrete)

GROUP 2 - Pipelayer, Vibrating Plate

PAIN0106-001 05/02/2016

	Rates	Fringes
GLAZIER.....	$ 30.17	17.47

FOOTNOTE:

1 to 4 years service - 1 week paid vacation; 5 to 11 years - 2 weeks paid vacation; 11 years or more - 3 weeks paid vacation

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PAIN0106-013 05/02/2016

	Rates	Fringes
Painters:		
New:		

Brush, Roller.....$ 29.86 16.35

Spray, Drywall

Finisher/Taper.....$ 30.46 16.35

Repaint:

Brush, Roller.....$ 28.36 16.35

Spray, Drywall

Finisher/Taper.....$ 28.96 16.35

PLAS0633-024 05/01/2016

ST. LOUIS (North of White Face River) COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	$ 29.46	15.77

PLAS0633-059 05/01/2016

CARLTON & ST. LOUIS (South of T 55N) COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	$ 30.86	17.13

PLUM0011-019 05/02/2016

ST. LOUIS (South of an east-west line drawn through Cotton)

Rates Fringes

PLUMBER/PIPEFITTER.....$ 39.07 18.73

PLUM0589-007 05/01/2016

ST. LOUIS (North of an East- West line drawn through Cotton)

Rates Fringes

PLUMBER/PIPEFITTER

Contracts $90,000.00 and

under.....$ 39.25 18.66

Contracts over $90,000.00...$ 39.25 18.66

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* ROOF0096-024 07/01/2016

ST. LOUIS (South of Hwy 16, excluding City of Forbes)

Rates Fringes

ROOFER.....$ 33.00 15.12

ROOF0096-025 05/01/2016

ST. LOUIS (Remaining Northern two-thirds)

Rates Fringes

ROOFER.....$ 29.00 11.82

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* SHEE0010-045 05/01/2016

ST. LOUIS (Southern one-third)

	Rates	Fringes
SHEET METAL WORKER (Including HVAC Duct Installation).....	$ 31.87	25.09

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* SHEE0010-056 05/01/2016

ST. LOUIS (Northern two-thirds)

	Rates	Fringes
SHEET METAL WORKER (Including HVAC Duct Installation).....	$ 30.51	23.90

SUMN2009-050 07/27/2009

	Rates	Fringes
LABORER: Landscape.....	$ 12.88	4.61
TRUCK DRIVER: Dump Truck.....	$ 19.15	5.70

WELDERS - Receive rate prescribed for craft performing

operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing

this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union

average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the

Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

PROJECT LABOR AGREEMENT

NO STRIKE, NO LOCKOUT

PUBLIC SECTOR

CITY OF DULUTH

&

Vendor

Project name

Project No.

Template

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Template

AGREEMENT

This Project Labor Agreement (hereinafter, the "Agreement"), effective as of the date of attestation by the City Clerk, by and between the various contractors engaged in the construction of facilities to be known as the (Project). The parties to this Agreement are the Building and Construction Trades Council, on behalf of its affiliated Local Unions (hereinafter "Union" or "Unions"), the City of Duluth (hereinafter "Owner") and Contractor (hereinafter "Construction Manager/General Manager," "Contractor," and "Contractors").

It is understood by the parties to this Agreement that it is the policy of the Owner that the construction work covered by this Agreement shall be contracted to Contractors who agree to be bound by the terms of this Agreement. Therefore, the Union agrees that other Contractors may execute the Agreement for the purpose of covering that work. The Construction Manager/General Contractor shall monitor compliance with this Agreement by all Contractors who through their execution of this Agreement, together with their subcontractors, have become bound hereto.

The term "Contractor" shall include all Contractors and subcontractors of whatever tier engaged in on-site construction work within the scope of this Agreement.

The Union and all signatory Contractors agree to abide by the terms and conditions contained in this Agreement with respect to the administration of the Agreement by the Owner and the performance of the construction by the Contractor of the Project. This Agreement represents the complete understanding of the parties, and it is further understood that no Contractor party is required to sign any other agreement as a condition of performing work within the scope of this Agreement. No practice, understanding or agreement between a Contractor and a Union party which is not explicitly set forth in this Agreement shall be binding on any other party unless endorsed in writing by the Project Contractor.

Template

ARTICLE I - PURPOSE

The (Project), an undertaking of the Owner, is a public project which will employ numbers of skilled and unskilled workers. Construction of the Project will entail utilization of the construction industry in an area having multiple labor contracts and employer associations. Consequently, conflicts within labor-management relations could cause delay or disruption of the efficient completion of the project unless maximum cooperation of all segments of the construction industry is obtained. This Agreement is to establish as the minimum standards on the Project the hours and working conditions as those prevailing for the largest number of workers engaged in the same classes of work within the area.

It is in the public interest that the Project progress and be completed in an expeditious and efficient manner, free of disruption or delay of any kind. Therefore, it is essential to secure optimum productivity and to eliminate any delays in the work. In recognition of the special needs of this Project and to maintain a spirit of harmony, labor-management peace and stability during the term of this Project Labor Agreement, the parties agree to establish effective and binding methods for the settlement of all misunderstandings, disputes or grievances which may arise. Therefore, the Unions agree not to engage in any strike, slowdown or interruption of work and the Contractor agrees not to engage in any lockout.

ARTICLE II - SCOPE OF THE AGREEMENT

Section 1. This Agreement, hereinafter designated as the "Project Labor Agreement" or "Agreement," shall apply and is limited to all construction work included in all Bid Categories for the (Project), under the direction of the signatory Contractors and performed by those Contractor(s) of whatever tier which have contracts awarded for such work on and after the effective date of this Agreement with regard to the Project.

Such Project is generally described as the construction of: Project

Template

Section 2. It is agreed that all direct subcontractors of a Contractor, of whatever tier, who have been awarded contracts for work covered by this Agreement on or after the effective date of this Agreement shall be required to accept and be bound by the terms and conditions of the Project Labor Agreement.

Section 3. The provisions of this Project Labor Agreement shall apply to all craft employees represented by any Union listed in Schedule A hereto attached and shall not apply to other field personnel or managerial or supervisory employees as defined by the National Labor Relations Act.

Section 4. All employees covered by this Agreement shall be classified in accordance with work performed and paid the base hourly wage rates for those classifications as specified in the attached Schedule A.

Section 5. The Contractors agree to pay contributions to the established employee benefit funds in the amounts designated in the appropriate Schedule A.

Contractors that are not signatory to a collective bargaining agreement beyond the scope of this Agreement ("PLA contractor") may select to participate in the legally established industry health reimbursement arrangement ("HRA") plan, in lieu of contributing to the respective bona fide benefit funds as designated in Schedule A. The amount of the contribution is based on the difference between the contribution amount of the bona fide Schedule A benefit funds and the cost of the PLA contractor's bona fide non-discretionary plans. Contributions must be made on behalf of named employees. Participating contractors will submit to the Trustees of the HRA trust and plan a copy of their plan, summary plan description, and the premium structure for workers covered under the PLA contractor's bona fide, non-discretionary plans. The value of the PLA contractor's benefit plans is subject to confirmation by the Trustees of the HRA trust and plan. This may include an independent audit according to a policy as established by the Trustees. Contractors are required to submit certified payroll reports to the Trustees or authorized administrator in order to confirm compliance with the terms of the HRA trust and plan.

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The Contractors adopt and agree to be bound by the written terms of the legally-established Trust Agreements (or in lieu thereof, the aforementioned HRA plan and trust including any policies) specifying the detailed basis on which payments are to be made into, and benefits paid out of, such Trust Funds. The Contractors authorize the parties to such Trust Agreements to appoint trustees and successor trustees to administer the Trust funds and hereby ratify and accept the Trustees so appointed as if made by the Contractors.

Section 6. In the event of any conflict between any provisions of this Agreement and in the Local Area Agreements, the terms of this Agreement will be applied. In other words, where a subject covered by the provisions of this Project Labor Agreement is also covered by the Local Area Agreement the provisions of this Project Labor Agreement shall prevail. Where a subject is covered by the Local Area Agreement and not covered by this Project Labor Agreement, the Local Area Agreement provisions shall prevail.

Section 7. This Agreement shall only be binding on the signatory parties hereto and shall not apply to the parents, affiliates, subsidiaries, or other ventures of any such party.

Section 8. This Agreement shall be limited to work historically recognized as construction work. Nothing contained herein shall be construed to prohibit, restrict, or interfere with the performance of any other operation, work or function which may occur in or around the Project site or be associated with the development of the Project, or with the ongoing operations of the Owner.

Section 9. It is understood that the liability of any Contractor and the liability of the separate Unions under this Agreement shall be several and not joint. The Union agrees that this Agreement does not have the effect of creating any joint employment status between or among Owner and any Contractor.

Template

Section 10. All workers delivering fill, sand, gravel, crushed rock, transit/concrete mix, asphalt or other similar materials and all workers removing any materials from the construction site as required by the specifications are subject to the provisions of the Minnesota state prevailing wage law and are entitled to the appropriate area standard wage. For purposes of this contract, such materials are for specified future use and per Minnesota state prevailing wage law delivery and pickup of the above-listed materials constitutes incorporation.

ARTICLE III - UNION RECOGNITION AND REPRESENTATION

Section 1. The Contractor recognizes the Union as the sole and exclusive bargaining representative of all craft employees working on facilities within the scope of this Agreement.

Section 2. Authorized representatives of the Union shall have access to the Project, provided they do not interfere with the work of employees and further provided that such representatives fully comply with the posted visitor and security and safety rules of the Project.

ARTICLE IV - LABOR HARMONY CLAUSE

The contractor shall furnish labor that can work in harmony with all other elements of labor employed on that (Project) and shall submit a labor harmony plan to demonstrate how this will be done. “Harmony” shall include the provision of labor that will not, either directly or indirectly, cause or give rise to any work disruptions, slow downs, picketing, stoppages, or any violence or harm to any person or property while performing any work, or activities incidental thereto at the (project). The labor harmony plan should include the company's labor management policies, collective bargaining agreements if any and their expiration dates, past labor relations history, a listing of activities anticipated under this contract that may potentially cause friction with on-site workers, and procedures the company will undertake to eliminate this friction.

The contractor agrees that it shall require every lower-tier subcontractor to provide labor that will work in harmony with all other elements of labor employed in the work, and will include the

Template

provisions contained in the paragraph above, in every lower-tier subcontract let for work under this contract.

The requirement to provide labor that can work in harmony with all other elements of labor employed in the work throughout the contract performance is a material element of this contract. Failure by the contractor or any of its lower tier subcontractors to comply with this requirement shall be deemed a material breach of the contract which will subject the contractor to all rights and remedies the city of Duluth may have, including without limitation the right to terminate the contract.

ARTICLE V - WORK STOPPAGES AND LOCKOUTS

Section 1. There shall be no strike, picketing, work stoppages, slowdowns or other disruptive, activity for any reason by the Union or employees against any Contractor covered under this Agreement, and there shall be no lockout by the Contractor. Failure of any Union or employee to cross any picket line established by any union, signatory or non-signatory, or any other organization, at or in proximity to the Project site is a violation of this Article.

Section 2. Any party alleging a breach of Section 1, of Article IV shall have the right to petition a court for temporary and permanent injunctive relief. The moving party need not show the existence of irreparable harm, and shall be required to post bond only to secure payment of court costs and attorney fees as may be awarded by the court.

ARTICLE VI - DISPUTES AND GRIEVANCES

Section 1. This Agreement is intended to provide close cooperation between management and labor. The Construction Manager/General Contractor and the Building and Construction Trades Council shall each assign a representative to this Project for the purpose of assisting the Local Unions, together with the Contractor, to complete the construction of the Project economically, efficiently, continuously and without interruption, delays or work stoppages.

Template

Each Contractor shall hold a pre-job conference with the Union and Construction Manager/General Contractor to clear up any project question and work assignments in which there is thought to be a difference in opinion. Every effort will be made to hold such conference well in advance of actual work performance.

Section 2. The Contractor, Union, and employees collectively and individually, realize the importance to all parties to maintain continuous and uninterrupted performance of the work of the Project, and agree to resolve disputes over grievances in accordance with the arbitration provisions set forth in the Local Area Agreements in effect with the Unions listed in Schedule A attached hereto.

ARTICLE VII - JURISDICTIONAL DISPUTES

Section 1. There will be no strikes, work stoppages, slowdowns, or other disruptive activity arising out of any jurisdictional dispute. Pending the resolution of the dispute, the work shall continue uninterrupted as assigned by the Contractor.

Section 2. Building construction work shall be assigned by the Contractor in accordance with the procedural rules of the Plan for the Settlement of Jurisdictional Disputes in the Construction Industry (hereinafter the "Plan"). Any jurisdictional dispute over the Contractor's assignment of work shall be settled in accordance with the provisions of the Plan.

Section 3. Where a jurisdictional dispute involves the International Brotherhood of Teamsters, it shall be referred for resolution to that International Union and the disputing International Union. The resolution of the dispute shall be reduced to writing, signed by the authorized representative of the International Unions and the Contractor. The assignments made by the Contractor shall be followed until such time as the dispute is resolved in accordance with this Section.

ARTICLE VIII - NO DISCRIMINATION

Template

Section 1. The Contractor and Union agree that they will not discriminate against any employee or applicant for employment because of his or her membership or nonmembership in a Union or based upon race, color, religion, sex, national origin or age in any manner prohibited by law or regulation.

Section 2. Any complaints regarding application of the provisions of Section 1 should be brought to the immediate attention of the involved Contractor for consideration and resolution.

Section 3. The use of the masculine or feminine gender in this Agreement shall be construed as including both genders.

ARTICLE IX - SAVINGS AND SEPARABILITY

It is not the intention of the parties to violate any laws governing the subject matter of this Agreement. The parties hereto agree that in the event any provisions of the Agreement are finally held determined to be illegal or void as being in contravention of any applicable law, the remainder of the Agreement shall remain in full force and effect unless the part or parts so found to be void are wholly inseparable from the remaining portions of this Agreement. Further, the contractor and Union agree that if and when any and all provisions of this Agreement are finally held or determined to be illegal or void by Court of competent jurisdiction, the parties will promptly enter into negotiations concerning the substance affected by such decision for the purpose of achieving conformity with the requirements of an applicable law and the intent of the parties hereto.

ARTICLE X - DURATION OF THE AGREEMENT

The Project Labor Agreement shall be effective as of the date of attestation by the City Clerk, and shall continue in effect for the duration of the Project construction work described in Article II hereof. Construction of any phase, portion, section or segment of the project shall be deemed complete when such phase, portion, section or segment has been turned over to the Owner and has received the final acceptance from the Owner's representative.

Template

Since there are provisions herein for no strikes or lockouts in the event any changes are negotiated and implemented under a Local Area Agreement during the term of this Agreement, the Contractor agrees that, except as specified herein, such changes shall be recognized and shall apply retroactively to the termination date in the particular Local Agreement involved. Each Contractor which has a Local Agreement with a Union at the time that its contract at the project commences shall continue it in effect with each said Union so long as the Contractor remains on the project. In the event any such Local Area Agreement expires, the Contractor shall abide by all of the terms of the expired Local Agreement until agreement is reached on a new Local Agreement, with any changes being subject to the provisions of this Agreement.

The Union agrees that there will be no strikes, work stoppages, sympathy actions, picketing, slowdowns or other disruptive activity affecting the Project by any Union involved in the negotiation of a Local Area Agreement nor shall there be any lockout on this Project affecting the Union during the course of such negotiations.

Template

IN WITNESS WHEREOF, the parties have hereunto set their hands on the date of attestation shown below.

DULUTH BUILDING AND
CONSTRUCTION TRADES COUNCIL

By: _____

Its: _____
(Printed Name/Title)

Date: _____

VENDOR

By: _____

Its: _____
(Printed Name/Title)

Date: _____

CITY OF DULUTH

By: _____
Mayor

Attest:

_____
City Clerk

Date: _____

_____
City Auditor

Date: _____

_____
Assistant City Attorney

Date: _____

Template

SCHEDULE "A"

A-1 Asbestos Workers Local 49
A-2 Boilermakers Local 647
A-3 BAC Local 1 Chapter 3 Duluth & Iron Range
A-4 Carpenters Local 361
A-5 Cements Masons/Plasterers Local 633
A-6 Elevator Constructors Local 9
A-7 Glaziers Local 106
A-8 IBEW Local 242
A-9 Iron Workers Local 512
A-10 Laborers Local 1091
A-11 Millwrights & Machinery Erectors Local 1348
A-12 Operating Engineers Local 49
A-13 Painters & Allied Trades Local 106
A-14 Plumbers & Steamfitters Local 11
A-15 Roofers Local 96
A-16 Sheet Metal Workers Local 10
A-17 Sprinkler Fitters Local 669
A-18 Teamsters Local 346

Template

Building Trades Affiliates
Contract Expirations

Heat & Frost Insulators Local 49	May 31, 2017
Boilermakers Local 647	December 31, 2017
Bricklayers Local 1	April 30, 2018
Carpenters Local 361	April 30, 2017
Cement Masons Local 633	April 30, 2017
Elevator Constructors Local 9	July 8, 2017
Glaziers Local 106	April 30, 2017
IBEW Local 242	May 31, 2019
Iron Workers Local 512	April 30, 2019
Laborers Local 1091	April 30, 2017
Millwright Local 1348	April 30, 2018
Operator Engineers Local 49 (Bldrs)	April 30 2019
Operator Engineers Local 49 (Hwy Heavy)	April 30, 2017
Painters Local 106	April 30, 2017
Plumbers & Steamfitters Local 11	April 30, 2017
Roofers Local 96	June 30, 2021
Sheet Metal Local 10	April 30, 2019
Sprinkler Fitters Local 669	March 31, 2021
Teamsters Local 346	April 30, 2017

(Updated 3/3/17)

Affiliated AFL-CIO

DULUTH BUILDING AND CONSTRUCTION TRADES COUNCIL

2002 LONDON ROAD | LABOR CENTER | DULUTH, MINN. 55812

Officers
Craig Olson
President
Darrell Godbout
Vice President
Dan Olson
Secretary
Jeff Daveau
Treasurer

Boilermakers #647
Bricklayers #1
Carpenters #361
Cement Masons #633
Elevator #9
IBEW #242
Insulators #49
Ironworkers #512
Laborers #1091
Millrights #1348
Operators #49
Painters #106
Pipefitters #11
Roofers #96
Sheetmetal #10
Sprinklerfitters #669
Teamsters #346

ASBESTOS WORKERS LOCAL 49
Dave Cartwright
2002 London Road #210
Duluth, MN 55812
(218) 724-3223 / Fax# 724-1870
dave@insulatorslocal49.org

BOILERMAKERS LOCAL 647
Bill Polchow
1007 NW 4th Street, Ste C
Grand Rapids, MN 55744
(218) 326-2522 / Fax# SAME
bpolchow647@outlook.com

BAC LOCAL #1 CHAPTER 3 DULUTH & IRON RANGE
Stan (Ogie) Paczynski
2002 London Road #100
Duluth, MN 55812
(218) 724-8374 / Fax# 724-8341
spaczynski@bac1mn-nd.org

CARPENTERS LOCAL 361
Chris Hill
5238 Miller Trunk Hwy
Hermantown, MN 55811
(218) 724-3297 / Fax# 724-8536
chill@ncsrcc.org

CEMENT MASONS LOCAL 633
Michael Syversrud
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Duluth, MN 55812
(218) 724-2323 / Fax# 724-2472
mikes@local633.org

ELEVATOR CONSTRUCTORS LOCAL 9
Dave Aaserud
433 Little Canada Rd E
Little Canada, MN 55117
(651) 287-0817 / Fax# 287-0820
d.aaserud@local9.com

IBEW LOCAL 242
Don Smith
2002 London Road #111
Duluth, MN 55812
(218) 728-6895 / Fax# 728-1965
dsmithlcl242@unions-america.com

IRON WORKERS LOCAL 512
Darrell Godbout, ***Vice President***
3752 Midway Road
Hermantown, MN 55810
(218) 724-5073 / Fax# 724-1525
darrell@iron512.com

LABORERS LOCAL 1091
Dan Olson, ***Secretary***
2002 London Road #119
Duluth, MN 55812
(218) 728-5151 / Fax# 728-2431
laborers@local1091.com

MILLRIGHTS & MACHINERY ERECTORS LOCAL 1348
Wayne Nordin
726 4th Street N
Virginia, MN 55792
(218) 741-6314 / Fax# 741-6017
wnordin@ncsrcc.org

OPERATING ENGINEERS LOCAL 49
Eric Gulland & Mike Parrott
2002 London Road #116
Duluth, MN 55812
(218) 724-3840 / Fax# 728-1441
edgulland@local49.org
mwparrott@local49.org

PAINTERS LOCAL 106
Craig Olson, ***President***
2002 London Road #106
Duluth, MN 55812
(218) 724-6466 / Fax# 724-7359
president@duluthbuildingtrades.com

PLUMBERS & FITTERS LOCAL 11
Jeff Daveau, ***Treasurer***
4402 Airpark Boulevard
Duluth, MN 55811
(218) 727-2199 / Fax# 727-2298
jeff@ualocal11.com

ROOFERS LOCAL 96
Vance Anderson
1145 Villa Vista Circle
Cromwell MN 55726
(218) 644-1096 / Fax# SAME
valocal96@yahoo.com

SHEET METAL WORKERS LOCAL 10
Doug Christy
6279 Industrial Road
Saginaw, MN 55779
(218) 724-6873 / Fax# SAME
dchristy@smw10.org

SPRINKLER FITTERS LOCAL 669
James Westby
PO Box 398
Mabel, MN 55954
(507) 493-5671 / Fax# 493-5481
westby@mabeltel.coop

TEAMSTERS LOCAL 346
Rod Alstead
2802 West 1st Street
Duluth, MN 55806
(218) 628-1034 / Fax# 628-0246
local@teamsters346.com

INTERNATIONAL ASSOCIATION OF

Heat & Frost Insulators & Allied Workers

Local 49

2002 London Road
Duluth, MN 55812

Tel: 218-724-3223
Fax: 218-724-1870
Cell: 218-590-0374

May 28, 2016

To whom it may concern,

The allocation of the wage increase effective June 1st 2016 is as follows:

	Mechanic	4th Year	3rd Year	2nd Year	1st Year
Base Wage	$28.77	$21.83	$19.13	$16.49	$13.79
Savings	$8.00	$6.00	$4.76	$3.50	$2.26
Union Dues	$3.54	$2.83	$2.48	$2.12	$1.77
Health & Welfare	$7.20	$7.20	$7.20	$7.20	$7.20
Pension	$9.00	$7.20	$5.76	$4.30	$2.86
Local Training	$0.50	$0.50	$0.50	$0.50	$0.50
Nat'l Training	$0.05	$0.05	$0.05	$0.05	$0.05
Industry Fund	$0.15	$0.15	$0.15	$0.15	$0.15
LMCT	$0.05	$0.05	$0.05	$0.05	$0.05
Total	**$57.26**	**$45.81**	**$40.08**	**$34.36**	**$28.63**
Total Taxable	*$40.31*	*$30.66*	*$26.37*	*$22.11*	*$17.82*

Please feel free to call the Local office with questions or concerns.

Sincerely,

David Cartwright
Business Manager

Affiliated with the AFL-CIO, Building and Construction Trades Department, Metal Trades Department and Canadian Labour Congress

PRINTED IN U.S.A.

International Brotherhood of

BOILERMAKERS · IRON SHIP BUILDERS

9459 N.W. Highway 10, Suite 105
Ramsey, MN 55303-7280
S 3

Local Lodge No. 647

BLACKSMITHS · FORGERS & HELPERS

Luke A. Voigt
Business Manager/Secretary Treasurer
763-712-9930 . Fax: 763-712-9935

November 22, 2016

TO WHOM IT MAY CONCERN:

The following wage package changes listed below become effective 01/01/2017 thru 12/31/2017 for Boilermakers Local Lodge #647. Per the Great Lakes Articles of Agreement for the year of 2017, there is a $1.35 increase which has been allocated to the wages. Also, the rate for General Foreman and Foreman increased $.50 per hour.

CHANGES AS OF:	January 1, 2017
Increase General Foreman	$ 1.85
Increase Foreman	1.85
Increase Journeyman	1.35

Effective:	01/01/2017
General Foreman Wage	$ 41.50
Foreman Wage	39.50
Journeyman Wage	36.50
Pension Trust	14.14
Annuity Trust	4.40
Health & Welfare Fund	7.07
Retiree Welfare Plan	.50
Apprenticeship Fund	.40
MOST	.34
647 D&T	.51
Deductions (after tax)	
Vacation Trust	2.00
647 Political Action Fund	.05

All other benefits and deductions remain the same for the Great Lakes Articles of Agreement as listed further in this letter.

Subsistence will be paid under the terms and conditions of the Great Lakes Articles of Agreement. For the provisions of the agreement on subsistence, Addendum A of the agreement states effective 01/01/2017 thru 12/31/2017 the daily rate of Subsistence is $65.00 per day if a Boilermaker's permanent address is 50 miles from the jobsite.

Addendum B was created and instilled in the Great Lakes Area Articles of Agreement. This addendum is in force from March 1, 2017 thru May 31, 2017 in the states of North Dakota and South Dakota and needs to be renewed each year thereafter. The addendum outlines a $2.00 hourly wage increase for certified pressure (tube) welding Journeymen Boilermakers and certified pressure (tube) welding

Apprentices shall receive Journeyman rate during this timeframe while working in the jurisdiction outlined above. Addendum B will be provided upon request, please contact Local 647 for a copy.

Boilermaker-Blacksmith National Pension Trust ($14.14), National Annuity ($4.40), National Health & Welfare Fund ($7.07), Boilermakers Great Lakes Region Retiree Welfare Plan ($.50), Boilermakers 647 D&T Fund ($.51), and Boilermakers 647 Political Action Fund ($.05 deducted after taxes) are to be paid on hours PAID, not hours worked.

Vacation Trust ($2.00 deducted after taxes), Apprenticeship Fund ($.40) and MOST ($.34) are to be paid on hours WORKED.

647 Political Action Fund and 647 D&T Fund monies will be submitted to Local 647 on separate forms and will require separate checks for each fund.

Boilermakers receive time and one-half over the established workday of eight hours and all time worked on Saturdays. All time worked on Sundays and holidays are double time.

Effective November 1, 2011, Field Dues increased to 4.25% of the gross pay, which is remitted to Local 647.

An Emergency Work Addendum has been added to the Great Lakes Articles of Agreement which provides for time and one half rate of pay for unscheduled emergency outages. If you would like a copy of this addendum please contact Local 647.

This is the first year of our three year agreement. In 2018 there will be a $1.35 increase and in 2019 there will be a $1.40 increase, both yet to be allocated.

If you have any questions please call me at 763-712-9930.

Very truly yours,

Luke A. Voigt
Business Manager/Secretary Treasurer
Boilermakers Local Lodge #647

LAV/vm
opeiu #12

Bricklayers and Allied Craftworkers

Local Union 1 Minnesota / North Dakota

312 Central Avenue, Suite 328
Minneapolis, Minnesota 55414

"Building For the Future"

TELEPHONE: 612/379-2966
FAX: 612/379-8754

MICHAEL J COOK
President/Secretary-Treasurer

To: All Associated General Contractors
Minnesota Masonry Contractors
Independent Contractors
Chapter #3
Duluth Area

May 6, 2016

Scope of the Agreement
This agreement shall cover all of the part of St. Louis County, south of a line between townships 54 and 55 (two miles north of Cotton), also the eastern half of Aitkin County on a line with the northeast boundary line of Mille Lacs County, also Carlton, Lake, Cook, Pine and Kanabec.

BRICKLAYERS AND ALLIED CRAFTWORKERS
LOCAL UNION 1 MINNESOTA / NORTH DAKOTA
DULUTH AREA – BRICKLAYERS, BLOCKLAYERS AND P.C.C.'S

This is to advise you that the new working agreement calls for a $1.90 increase per hour with rates retroactive to May 1, 2016. Please inform your bookkeeping department of the following rates.

The total wage rate effective May 1, 2016 for members of the Bricklayers and Allied Craftworkers will be as follows:

WAGES	HEALTH $BANK – RPP	HRA	IU & PPA PENSION	LOCAL PENSION	DUL ANN	DUL VAC	DUES	IMI	APPR	FCF	TOTAL
29.64	(6.96 + 1.10)	.88	(1.50 + .52)	7.15	3.85	2.00	1.27	.56	.30	.02	55.75

Base Rate:	$29.64
Vacation, Dues Check Off:	$3.27
Taxable Amount:	$32.91

FOREMAN RATE - The **NEW** Foreman rate shall be an additional **$3.50** above the scale.
REFRACTORY - The Refractory Base Wage rate shall be $31.14 with above fringe benefits.
VACATION PAY - Vacation Pay shall be pyramided in all overtime pay. Time and one-half = $3.00
Double-time =$4.00

Sincerely,
Michael J Cook

Michael J. Cook
President / Secretary - Treasurer
Bricklayers and Allied Craftworkers
Local Union 1Minnesota / North Dakota
8 – 2016

APPRENTICE WAGES

BASE WAGE	TAXABLE
0 - 1999 hours 65% - $19.27	$22.54*
2000 - 3999 hours 75% - $22.23	$22.50*
4000 - 5999 hours 85% - $25.19	$28.46*
6000 hours full wages & fringe benefits *	

Taxable wage - Includes Vacation and Dues

Bricklayers and Allied Craftworkers

Local Union 1 Minnesota / North Dakota

312 Central Avenue, Suite 328
Minneapolis, Minnesota 55414

"Building For the Future"

TELEPHONE: 612/379-2966
FAX: 612/379-8754

MICHAEL J. COOK
President/Secretary-Treasurer

To: All Associated General Contractors
Minnesota Tile Contractors
Independent Contractors
Chapter #3
Duluth Area

Scope of the Agreement
This agreement shall cover the counties of St. Louis, Koochiching, Itasca, Aitkin, Carlton, Lake, and Cook. The agreement shall also cover all of the part of Pine County north of County Road 30 and include the city of Sandstone.

April 29, 2016

BRICKLAYERS AND ALLIED CRAFTWORKERS
LOCAL UNION 1 MINNESOTA / NORTH DAKOTA

DULUTH AREA –TILE LAYERS

This is to advise you that the new working agreement calls for a $1.40 increase per hour on May 1, 2016. Please inform your bookkeeping department of the following rates.

The total wage rate effective May 1, 2016 for members of the Bricklayers and Allied Craftworkers will be as follows:

WAGES	HEALTH $BANK – RPP	HRA	IU & PPA PENSION	LOCAL PENSION	LOCAL ANNUITY	VAC.	DUES	IMI	APPR	FCF	TOTAL
23.32	(5.65 + 1.10)	1.21	(1.50 + .52)	7.15	4.72	.50	1.09	.47	.20	.02	47.45

Base Rate: $23.32
Vacation, Dues Check Off: $1.59
Taxable Amount: $24.91

Foreman shall receive an additional $1.00 above the scale.

APPRENTICESHIP WAGES

	BASE WAGE	TAXABLE
0 – 1999 hours	90% - $20.99	$22.58 *
2000 - 3999 hours	95% - $22.15	$23.74 *

4000 hours full wage & fringe benefits

* Taxable wage = Includes Dues*

Sincerely,

Michael J. Cook

Michael J. Cook
President / Secretary - Treasurer
Bricklayers and Allied Craftworkers
Local Union 1 Minnesota / North Dakota

46-2016

Bricklayers and Allied Craftworkers

Local Union 1 Minnesota / North Dakota

312 Central Avenue, Suite 328
Minneapolis, Minnesota 55414

"Building For the Future"

TELEPHONE: 612/379-2966
FAX: 612/379-8754

MICHAEL J. COOK
President/Secretary-Treasurer

To: All Associated General Contractors
Minnesota Tile Contractors
Independent Contractors
Chapter #3
Duluth Area

Scope of the Agreement
This agreement shall cover the counties of St. Louis, Koochiching, Itasca, Aitkin, Carlton, Lake, and Cook. The agreement shall also cover all of the part of Pine County north of County Road 30 and include the city of Sandstone.

April 29, 2016

BRICKLAYERS AND ALLIED CRAFTWORKERS
LOCAL UNION 1 MINNESOTA / NORTH DAKOTA
DULUTH AREA - TILE FINISHERS

This is to advise you that the new working agreement calls for a $1.40 increase per hour on May 1, 2016. Please inform your bookkeeping department of the following rates.

The total wage rate effective May 1, 2016 for members of the Bricklayers and Allied Craftworkers will be as follows:

WAGES	HEALTH $BANK - RPP	HRA	IU & PPA PENSION	LOCAL PENSION	LOCAL ANNUITY	VAC.	DUES	IMI	APPR	FCF	TOTAL
16.54	(5.65 + 1.10)	1.00	(1.50 + .52)	7.15	.54	.50	.87	.36	.20	.02	35.95

Base Rate:	$16.54
Vacation, Dues Check Off:	$1.37
Taxable Amount:	$17.91

APPRENTICESHIP WAGES

	BASE WAGE	TAXABLE
0 - 999 hours	70% - $11.58	$12.95*
1000 – 1999 hours	75% - $12.41	$13.78*
2000 -2999 hours	80% - $13.23	$14.60*
3000 - 3999 hours	85% - $14.07	$15.43*
4000 hours full wage & fringe benefits		

* Taxable wage = Includes Dues*

Sincerely,

Michael J. Cook

Michael J. Cook
President / Secretary - Treasurer
Bricklayers and Allied Craftworkers
Local Union 1 Minnesota / North Dakota

47-2016

Northern Minnesota

Local 361

Commercial Carpenter Wage Rates

Effective May 1, 2016

Classification		Percent (%)	Gross Wages	Deductions: Savings	Deductions: Dues	Fringe Benefits: Health	Fringe Benefits: DB Pension	Fringe Benefits: DC Pension	Fringe Benefits: Apprentice/ Education	Fringe Benefits: Fair Contracting	Total Package
Commercial Foreman (+2.00 Above JP)		100%	$31.97	-$1.30	-$1.20	$6.81	$6.60	$3.00	$0.55	$0.02	$48.95
Commercial Journeyperson		100%	$29.97	-$1.30	-$1.20	$6.81	$6.60	$3.00	$0.55	$0.02	$46.95
Apprentice	6125-7000	97%	$29.07	-$1.30	-$0.90	$6.81	$6.60	$3.00	$0.55	$0.02	$46.05
	5250-6125	93%	$27.87	-$1.30	-$0.90	$6.81	$6.60	$3.00	$0.55	$0.02	$44.85
	4375-5250	88%	$26.37	-$1.30	-$0.90	$6.81	$6.60	$3.00	$0.55	$0.02	$43.35
	3500-4375	83%	$24.88	-$1.30	-$0.90	$6.81	$6.60	$3.00	$0.55	$0.02	$41.86
	2625-3500	78%	$23.38	-$1.30	-$0.90	$6.81	$6.60	$3.00	$0.55	$0.02	$40.36
	1750-2625	73%	$21.88	-$1.30	-$0.90	$6.81	$6.60	$3.00	$0.55	$0.02	$38.86
	875-1750	68%	$20.38	-$1.30	-$0.90	$6.81	$6.60	$3.00	$0.55	$0.02	$37.36
	0-875	63%	$18.88	-$1.30	-$0.90	$6.81	$6.60	$3.00	$0.55	$0.02	$35.86

Consisting of Carlton, Cook, Pine, and portions of Lake and St. Louis Counties in Minnesota and Douglas and Western Bayfield Counties in Wisconsin.

CEMENT MASONS, PLASTERERS AND SHOPHANDS
Local No. 633

of Minnesota, North Dakota, and NW Wisconsin · AFL-CIO

312 Central Avenue · Room 376 · Minneapolis, Minnesota 55414

Phone (612)379-1558 · Fax (612)379-1559

GREG MASSEY
Financial Secretary Business Manager

DAVE SCHUTTA
President

JOSEPH DeRASMI
Business Agent

BRIAN GULLICKSON
Business Agent

GREG JOHNSON
Business Agent

JEROME JOHNSON
Business Agent

MICHAEL KRAHN
Business Agen

DARRELL LENDE
Business Agent

MICHAEL SYVERSRUD
Business Agent

THOMAS REGER
Apprentice Coordinator

TO: ALL DULUTH AREA CONTRACTORS

ATTN: PAYROLL DEPT

RE: 2016 WAGE RATES - **BUILDERS** DIVISION

This Agreement shall govern work done in the areas defined as follows: All of the following counties: Aitkin, Carlton, Cook, Lake and that part of Pine County north of the northern boundaries of Dell Grove, Sandstone and Danforth townships, and that part of St. Louis County south of Co Rd 967 which is two miles north of cotton on Hwy #53, as well as the following counties in Wisconsin: Douglas, Bayfield, Washburn, Sawyer and Price.

EFFECTIVE MAY 1, 2016

BASIC WAGE*	HEALTH & WELFARE	HRA	PENSION	SAVINGS	TRAINING	TOTAL
30.86	7.48	1.25	7.94	(5.27)	.46	47.99

*The Basic Wage before the deduction of savings is the straight time wage used in determining overtime. (EXAMPLE: 1.5 X $30.86 = $46.29 TAXED, THEN MINUS $5.27 FOR SAVINGS EACH HOUR) After all taxes are deducted from the Basic Wage rate, $5.27 per hour for each hour worked shall be deducted and applied to the Minnesota Cement Masons Savings Plan.

Foreman: $2.00 above basic wage

APPRENTICE RATES:

UP TO 1000HRS	70%	21.60
1001-2000 HRS	75%	23.15
2001-3000 HRS	80%	24.69
3001-4000 HRS	85%	26.23
4001-5000 HRS	90%	27.77
5001-6000 HRS	95%	29.32

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MICHAEL KRAHN
Business Agen

DARRELL LENDE
Business Agent

MICHAEL SYVERSRUD
Business Agent

THOMAS REGER
Apprentice Coordinator

TO: ALL DULUTH AREA CONTRACTORS

ATTN: PAYROLL DEPT

RE: 2016 WAGE RATES - **HIGHWAY/HEAVY** DIVISION

This Agreement shall govern work done in the areas defined as follows: All of the following counties: Aitkin, Carlton, Cook, Lake and that part of Pine County north of T.24N, and that part of St. Louis County south of T.55N, as well as the following counties in Wisconsin: Ashland, Douglas, Bayfield, Burnett, Iron, Washburn, Sawyer and Price.

EFFECTIVE MAY 1, 2016

BASIC WAGE*	HEALTH & WELFARE	HRA	PENSION	SAVINGS	TRAINING	TOTAL
33.95	7.48	1.75	7.94	(5.67)	.46	51.58

*The Basic Wage before the deduction of savings is the straight time wage used in determining overtime. (EXAMPLE: 1.5 X $33.95 = $50.93, TAXED, THEN MINUS $5.67 FOR SAVINGS EACH HOUR) After all taxes are deducted from the Basic Wages, $5.67 per hour for each hour worked shall be deducted and applied to the Minnesota Cement Masons Savings Plan.

Foreman: $1.50 above basic wage

APPRENTICE RATES:

UP TO 1000HRS	70%	23.77
1001-2000 HRS	75%	25.46
2001-3000 HRS	80%	27.16
3001-4000 HRS	85%	28.86
4001-5000 HRS	90%	30.56
5001-6000 HRS	95%	32.25

CEMENT MASONS, PLASTERERS AND SHOPHANDS
Local No. 633
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GREG MASSEY
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GREG JOHNSON
Business Agent

JEROME JOHNSON
Business Agent

MICHAEL KRAHN
Business Agen

DARRELL LENDE
Business Agent

MICHAEL SYVERSRUD
Business Agent

THOMAS REGER
Apprentice Coordinator

TO: ALL NORTHERN MINNESOTA & NORTHWESTERN WISCONSIN **PLASTERING** CONTRACTORS

ATTN: PAYROLL DEPT, 2016 WAGE RATES

This Agreement shall govern work done in the areas defined as follows: All of the following counties: Aitkin, Carlton, Cook, Itasca, Lake, St. Louis, and that part of Pine County north of T.24N, as well as the following counties in Wisconsin: Ashland, Bayfield, Douglas, Iron, Sawyer, Washburn, Burnett, and Price.

EFFECTIVE MAY 1, 2016

BASIC WAGE*	HEALTH & WELFARE	HRA	PENSION	SAVINGS*	TRAINING	TOTAL
31.49	7.48	2.00	7.94	(3.60)	.46	49.37

*The Basic Wage before the deduction of savings is the straight time wage used in determining overtime. (EXAMPLE: 1.5 X $31.49 = $47.24 TAXED, THEN MINUS $3.60 FOR SAVINGS EACH HOUR). After all taxes are deducted from the Basic Wage rate, $3.60 per hour for each hour worked shall be deducted and applied to the Minnesota Cement Masons Savings Plan.

Foreman: $1.50 above basic wage

APPRENTICE RATES:

UP TO 1000HRS	70%	22.04
1001-2000 HRS	75%	23.62
2001-3000 HRS	80%	25.19
3001-4000 HRS	85%	26.77
4001-5000 HRS	90%	28.34
5001-6000 HRS	95%	29.92

INTERNATIONAL UNION OF ELEVATOR CONSTRUCTORS

LOCAL UNION NO. 9
433 Little Canada Road E.
Little Canada, MN 55117

AFFILIATED WITH THE AFL-CIO
Phone: (651) 287-0817
Fax: (651) 287-0820

Wage & Fringe Benefits: January 1, 2016

To: All Employers doing Business within the Jurisdiction of IUEC Local 9
Subject: Wage rates effective January 1, 2016 – IUEC Local 9
Minnesota, North Dakota and Western Wisconsin

In accordance with the provisions of Article V of the current labor agreement (2012-2017) between all signatory employers and the International Union of Elevator Constructors, the following rates shall be effective on January 1, 2016:

Mechanic in Charge	(112.5%)	$51.60
Mechanic	(100.0%)	$45.87
4th Year Apprentice	(80.0%)	$36.70
3rd Year Apprentice	(70.0%)	$32.11
2nd Year Apprentice	(65.0%)	$29.82
1st Year Apprentice	(55.0%)	$25.23
Probationary Apprentice	(50.0%)	$22.935
Helper	(70.0%)	$32.11

The company will make fringe benefit contributions per hour worked in accordance with the following schedule:

Health Benefit Plan	$14.425
Pension	$ 8.96
Annuity	$ 6.00
Education	$ 0.60
Elevator Ind. Work Preservation Fund	$ 0.30
TOTAL	$30.285

Vacation: 6% Hourly pay under 5 years
8% Hourly pay over 5 years

Local 106 Glaziers Wage Rates
Effective May 2, 2016

Journeyperson Wage Rates:

	Base	Health & Welfare	Pension	Annuity	FTI/UM	FTI/NT'L	FCF	LMCI	STAR	DC82/FCF	**Total**	Vac *	Check-off Dues**
Glaziers	$30.17	$7.20	$5.92	$3.90	$0.35	$0.10	$0.01	$0.10	$ 0.10	$0.01	$47.86	$2.55	$1.88
Auto Glass	$24.24	$7.20	$5.92	$3.90	$0.35	$0.10	$0.01	$0.10	$ 0.10	$0.01	$41.93	$2.55	$1.67

Apprentices Indentured BEFORE May 1, 2014:

Hours	**%**	Base	Health & Welfare	Pension	Annuity	FTI/UM	FTI/NT'L	FCF	LMCI	STAR	DC82/FCF	**Total**	Vac *	Check-off Dues**
0-1000	50	$15.09	$7.20	$5.92	$3.90	$0.35	$0.10	$0.01	$0.10	$ 0.10	$0.01	$32.78	$1.28	$1.35
1001-2000	55	$16.59	$7.20	$5.92	$3.90	$0.35	$0.10	$0.01	$0.10	$ 0.10	$0.01	$34.28	$1.40	$1.40
2001-3000	60	$18.10	$7.20	$5.92	$3.90	$0.35	$0.10	$0.01	$0.10	$ 0.10	$0.01	$35.79	$1.53	$1.45
3001-4000	70	$21.12	$7.20	$5.92	$3.90	$0.35	$0.10	$0.01	$0.10	$ 0.10	$0.01	$38.81	$1.79	$1.56
4001-5000	80	$24.14	$7.20	$5.92	$3.90	$0.35	$0.10	$0.01	$0.10	$ 0.10	$0.01	$41.83	$2.04	$1.66
5001-6000	90	$27.15	$7.20	$5.92	$3.90	$0.35	$0.10	$0.01	$0.10	$ 0.10	$0.01	$44.84	$2.30	$1.77

Apprentices Indentured on or AFTER May 1, 2014:

Hours	**%**	Base	Health & Welfare	Pension	Annuity	FTI/UM	FTI/NT'L	FCF	LMCI	STAR	DC82/FCF	**Total**	Vac *	Check-off Dues**
0-1000	50	$15.09	$7.20	$5.92	$1.95	$0.35	$0.10	$0.01	$0.10	$ 0.10	$0.01	$30.83	$1.28	$1.28
1001-2000	55	$16.59	$7.20	$5.92	$2.15	$0.35	$0.10	$0.01	$0.10	$ 0.10	$0.01	$32.53	$1.40	$1.34
2001-3000	60	$18.10	$7.20	$5.92	$2.34	$0.35	$0.10	$0.01	$0.10	$ 0.10	$0.01	$34.23	$1.53	$1.40
3001-4000	70	$21.12	$7.20	$5.92	$2.73	$0.35	$0.10	$0.01	$0.10	$ 0.10	$0.01	$37.64	$1.79	$1.52
4001-5000	80	$24.14	$7.20	$5.92	$3.12	$0.35	$0.10	$0.01	$0.10	$ 0.10	$0.01	$41.05	$2.04	$1.64
5001-6000	90	$27.15	$7.20	$5.92	$3.51	$0.35	$0.10	$0.01	$0.10	$ 0.10	$0.01	$44.45	$2.30	$1.76

*The Vacation Contribution is included in the taxable wage listed above, then deducted and remitted along with your Health & Welfare Contribution.

Revised 5/18/16					
LOCAL UNION #242					
Effective Dates	**05/31/15**		**05/29/16**		
JW Rate	**$33.90**		**$34.92**		
Foreman	**12.5%**		**12.5%**		
General Foreman	**22.5%**		**22.5%**		
NEBF	3.00%	$1.02	3.00%	$1.05	
Vacation	11.00%	$3.73	11.00%	$3.84	
H & W	27.64%	$9.37	27.21%	$9.50	
Local Pension	13.55%	$4.59	13.55%	$4.73	
Annuity	16.00%	$5.42	16.00%	$5.59	
****Total Package**	**$58.05**		**$59.65**		
LLMCC Employee .02	$58.03		$59.63		
Total Package %	**71.19%**		**70.76%**		

Total Package 2017 = $61.20 less Employee LLMCC (.02) $61.18

Total Package 2018 = $62.70 less Employee LLMCC (.02) $62.68

****These total packages do not include Apprenticeship (1%), NECA Service Charges (1.25%), Admin. Maint. Fund (.006%/hr.), NLMCC (.01 cent/hr.), or LLMCC (.04 cents/hr.).**

Apprenticeship	1% .34		1% / .35		
Service Charge	1.25% .42		1.25% / .44		
NLMCC	0.01		0.01		
Local LMCC	0.04		0.04		
Admin Maint Fund	0.20		0.21		
	1.01		**1.05**		

401k deduction - $1.00, $3.00 & $5.00 per hour (at employees discretion)

Subsistance for all jobs outside of 35 mile radius of Lake Ave & Superior Street in Duluth - $15.00

Subsistance for all jobs outside of 70 mile radius of Lake Ave & Superior Street in Duluth - $50.00

DULUTH APPRENTICE WAGE RATE INFORMATION

6th	6,500 - 8,000	85%	$29.68	Full Benefits - 5th year
5th	5,000 - 6,500	75%	$26.19	Full Benefits - 4th year
4th	3,500 - 5,000	65%	$22.70	Full Benefits - 3rd year
3rd	2,000 - 3,500	55%	$19.21	Full Benefits - 2nd year
2ND	1,000 - 2,000	50%	$17.46	H&W/NEBF - 1st year
1st	0 - 1,000	45%	$15.71	H&W/NEBF -

IRON WORKERS LOCAL UNION NO. 512 REGIONAL WAGE/FRINGE SCHEDULE

Region A

Effective June 5, 2016

Base Wage Rate	Defined Benefit Pension	Defined Contribution Pension	Health & Welfare	Apprenticeship & Training Fund	IMPACT Fund	Fair Contracting Foundation	Total Package	Voluntary CAF
$36.00	$9.75	$6.00	$8.20	$0.95	$0.27	$0.02	$61.19	$0.04

$54.00	Journeyman time and one-half rate
$72.00	Journeyman double time rate

Leadman (two employees or less)	$1.00	per hour above Base Wage Rate.
Foreman (three employees or more)	$2.50	per hour above Base Wage Rate.
General Foreman	$4.00	per hour above Base Wage Rate.

Savings Plan Deduction ($3.25 per hour)
The Employer is required to deduct $3.25 per hour worked from the Employee's after-tax wages as the Savings Plan Deduction; calculated on an hours-worked basis and does not pyramid with overtime rates of pay.

Working Dues Check-Off Deduction
The Employer is required deduct from the Employee's after-tax wages, the amount equal to **5%** of the Employee's gross wages as a working dues check-off deduction. This deduction shall not apply to per diem, subsistence, mileage or bonus payments made to the employee.

Organizing Dues Check-Off Deduction
The Employer is required to deduct $0.10 per hour worked from the Employee's after-tax wages as an organizing dues check-off deduction, calculated on an hours-worked basis and does not pyramid with overtime rates of pay.

Fair Contracting Foundation (FCF)
Included in the Total Package amount is a contribution of $0.02 per hour worked, effective in all Regions of the Union. This contribution is to be reported as a separate line item and remitted to Twin City Iron Workers Fringe Benefit Funds with the other contributions and will be forwarded to FCF appropriately.

****Contract Administration Fund (C.A.F.)**
Not included in the Total Package amount is a voluntary Employer contribution of $0.04 per hour worked for the Contract Administration Fund.

When and Where to Send Contributions and Deductions
All fringe benefit fund contributions and payroll deductions are due no later than the 20th day of the month following the month when the hours were worked and should be remitted to:

Twin City Iron Workers Fringe Benefit Funds
Wilson-McShane Corporation
3001 Metro Drive – Suite 500
Bloomington, MN 55425-1412

The Local 512 Collective Bargaining Agreement includes provisions for varying subsistence rates on projects, depending on the project location. For more specific information, please call the Local Union Main Office at (651)489-1488 or 1-(866)489-1488 (toll free).

IRON WORKERS LOCAL UNION NO. 512 REGIONAL WAGE/FRINGE SCHEDULE

Region B

Effective June 5, 2016

Base Wage Rate	Defined Benefit Pension	Defined Contribution Pension	Health & Welfare	Apprenticeship & Training Fund	IMPACT Fund	Fair Contracting Foundation	Total Package	Voluntary CAF
$31.54	$9.75	$6.00	$8.20	$0.95	$0.27	$0.02	$56.73	$0.04

$47.31	Journeyman time and one-half rate
$63.08	Journeyman double time rate

Leadman (two employees or less)	$1.00	per hour above Base Wage Rate.
Foreman (six employees or more)	$2.50	per hour above Base Wage Rate.
General Foreman	$4.00	per hour above Base Wage Rate.

Savings Plan Deduction ($3.25 per hour)
The Employer is required to deduct $3.25 per hour worked from the Employee's after-tax wages as the Savings Plan Deduction; calculated on an hours-worked basis and does not pyramid with overtime rates of pay.

Working Dues Check-Off Deduction
The Employer is required deduct from the Employee's after-tax wages, the amount equal to **5%** of the Employee's gross wages as a working dues check-off deduction. This deduction shall not apply to per diem, subsistence, mileage or bonus payments made to the employee.

Organizing Dues Check-Off Deduction
The Employer is required to deduct $0.10 per hour worked from the Employee's after-tax wages as an organizing dues check-off deduction, calculated on an hours-worked basis and does not pyramid with overtime rates of pay.

Fair Contracting Foundation (FCF)
Included in the Total Package amount is a contribution of $0.02 per hour worked, effective in all Regions of the Union. This contribution is to be reported as a separate line item and remitted to Twin City Iron Workers Fringe Benefit Funds with the other contributions and will be forwarded to FCF appropriately.

****Contract Administration Fund (C.A.F.)**
Not included in the Total Package amount is a voluntary Employer contribution of $0.04 per hour worked for the Contract Administration Fund.

When and Where to Send Contributions and Deductions
All fringe benefit fund contributions and payroll deductions are due no later than the 20th day of the month following the month when the hours were worked and should be remitted to:

Twin City Iron Workers Fringe Benefit Funds
Wilson-McShane Corporation
3001 Metro Drive – Suite 500
Bloomington, MN 55425-1412

The Local 512 Collective Bargaining Agreement includes provisions for varying subsistence rates on projects, depending on the project location. For more specific information, please call the Local Union Main Office at (651)489-1488 or 1-(866)489-1488 (toll free).

IRON WORKERS LOCAL UNION NO. 512 REGIONAL WAGE/FRINGE SCHEDULE

Region C

Effective June 5, 2016

Base Wage Rate	Defined Benefit Pension	Defined Contribution Pension	Health & Welfare	Apprenticeship & Training Fund	IMPACT Fund	Fair Contracting Foundation	Total Package	NDCC
$30.70	$9.75	$6.00	$8.20	$0.95	$0.27	$0.02	$55.89	$0.10

$46.05 Journeyman time and one-half rate
$61.40 Journeyman double time rate

Leadman (two employees or less)	$1.00	per hour above Base Wage Rate.
Foreman (three employees or more)	$2.50	per hour above Base Wage Rate.
General Foreman	$4.00	per hour above Base Wage Rate.

Savings Plan Deduction ($2.50 per hour)
The Employer is required to deduct $2.50 per hour worked from the Employee's after-tax wages as the Savings Plan Deduction; calculated on an hours-worked basis and does not pyramid with overtime rates of pay.

Working Dues Check-Off Deduction
The Employer is required deduct from the Employee's after-tax wages, the amount equal to **5%** of the Employee's gross wages as a working dues check-off deduction. This deduction shall not apply to per diem, subsistence, mileage or bonus payments made to the employee.

Organizing Dues Check-Off Deduction
The Employer is required to deduct $0.10 per hour worked from the Employee's after-tax wages as an organizing dues check-off deduction, calculated on an hours-worked basis and does not pyramid with overtime

Fair Contracting Foundation (FCF)
Included in the Total Package amount is a contribution of $0.02 per hour worked, effective in all Regions of the Union. This contribution is to be reported as a separate line item and remitted to Twin City Iron Workers Fringe Benefit Funds with the other contributions and will be forwarded to FCF appropriately.

****North Dakota Construction Council (NDCC**
The Employer agrees to contribute ten cents ($0.10) per hour worked in addition to the Total Package amounts set forth in this Agreement, for all bargaining unit work performed on sites covered by the North Dakota Construction Council (NDCC) and payable to the NDCC in accordance with the terms and conditions contained in the July 1, 2010 Letter of Understanding Relating to the North Dakota Construction Council (NDCC) between the parties to this Agreement.

When and Where to Send Contributions and Deductions
All fringe benefit fund contributions and payroll deductions are due no later than the 20th day of the month following the month when the hours were worked and should be remitted to:

Twin City Iron Workers Fringe Benefit Funds
Wilson-McShane Corporation
3001 Metro Drive – Suite 500
Bloomington, MN 55425-1412

The Local 512 Collective Bargaining Agreement includes provisions for varying subsistence rates on projects, depending on the project location. For more specific information, please call the Local Union Main Office at (651)489-1488 or 1-(866)489-1488 (toll free).

BUILDING WAGE RATES

Duluth/Cloquet Local #1091

Effective May 1, 2016:

Class	(Taxable) Wages	(Taxable) Vacation	H & W	Pension	Trng/Appr	LECET	SAFE		Total
1	$ 24.14	$ 2.20	$ 7.65	$ 6.75	$ 0.32	$ 0.08	$ 0.15	.....	$ 41.29
2	$ 24.24	$ 2.20	$ 7.65	$ 6.75	$ 0.32	$ 0.08	$ 0.15	.....	$ 41.39
3	$ 24.54	$ 2.20	$ 7.65	$ 6.75	$ 0.32	$ 0.08	$ 0.15	.....	$ 41.69
4	$ 24.84	$ 2.20	$ 7.65	$ 6.75	$ 0.32	$ 0.08	$ 0.15	.....	$ 41.99
5	$ 21.79	$ 2.20	$ 7.65	$ 6.75	$ 0.32	$ 0.08	$ 0.15	.....	$ 38.94

Example: Apprentice at 80% of Class 1 ONLY

Class 1	$ 19.31	$ 2.20	$ 7.65	$ 6.75	$ 0.32	$ 0.08	$ 0.15	.....	$ 36.46

Foreman/Leadman $1.50 above highest classification employed in.

Effective May 1, 2016 - $1.25 increase per hour

*** Vacation is a taxable wage and shall be paid for all hours worked and at 1 1/2 or 2 times the hourly rate when overtime is worked.

"All" Fringes are to be sent to :

Minnesota Laborers' Fringe Benefits Fund
P. O. Box 124
Minneapolis, MN 55440-0124
(651) 256-1800

HIGHWAY HEAVY WAGE RATES

District 2A - Duluth Local #1091

Effective May 1, 2016:

Class	(Taxable) Wages	(Taxable) Vacation	H & W	Pension	Trng/Appr	LECET	FCF		Total
1	$ 29.23	$ 2.30	$ 7.65	$ 6.75	$ 0.32	$ 0.08	$ 0.02	.....	$ 46.35
2	$ 29.43	$ 2.30	$ 7.65	$ 6.75	$ 0.32	$ 0.08	$ 0.02	.....	$ 46.55
3	$ 29.58	$ 2.30	$ 7.65	$ 6.75	$ 0.32	$ 0.08	$ 0.02	.....	$ 46.70
4	$ 29.68	$ 2.30	$ 7.65	$ 6.75	$ 0.32	$ 0.08	$ 0.02	.....	$ 46.80
5	$ 29.93	$ 2.30	$ 7.65	$ 6.75	$ 0.32	$ 0.08	$ 0.02	.....	$ 47.05
6	$ 31.73	$ 2.30	$ 7.65	$ 6.75	$ 0.32	$ 0.08	$ 0.02	.....	$ 48.85
7	$ 25.68	$ 2.30	$ 7.65	$ 6.50	$ 0.32	$ 0.08	$ 0.02	.....	$ 42.55

Example: Apprentice at 80% of Class 1 ONLY

Class 1	$ 23.30	$ 2.30	$ 7.65	$ 6.75	$ 0.32	$ 0.08	$ 0.02	.....	$ 40.42

Pipelayer, Laser Beam (sewer, water, gas) Classification 6 rate.
Foreman/Leadman $1.50 above highest classification employed in.
General Foreman $2.25 above Foreman scale (appointed at employers discretion).

*** Vacation is a taxable fringe and part of the gross wage, it shall be paid for all hours worked and at 1 1/2 or 2 times the hourly rate when overtime is worked

"All" Fringes are to be sent to :

Minnesota Laborers' Fringe Benefits Fund
P. O. Box 124
Minneapolis, MN 55440-0124
(651) 256-1800

NORTH CENTRAL STATES Regional Council of CARPENTERS

LOCAL 1348 MILLWRIGHT AGREEMENT

NORTHERN MINNESOTA

MILLWRIGHTS & MACHINE ERECTOR WAGE RATES

Effective May 3, 2015

Classification		Percent (%)	Gross Wages	Deductions: Savings	Deductions: Dues	Fringe Benefits: Health	Fringe Benefits: DB Pension	Fringe Benefits: DC Pension	Fringe Benefits: Apprentice/ Education	Fringe Benefits: Industry Promo Fund	Total Package
General Foreman	F + $1.75	100%	$36.57	-$3.50	$1.46	$6.33	$5.90	$1.90	$0.60	$0.05	$51.35
Foreman	JP + $2.25	100%	$34.82	-$3.50	$1.39	$6.33	$5.90	$1.90	$0.60	$0.05	$49.60
Journeyperson		100%	$32.57	-$3.50	$1.30	$6.33	$5.90	$1.90	$0.60	$0.05	$47.35
Apprentice	6001-7000	95%	$30.94	-$3.50	$1.24	$6.33	$5.90	$1.90	$0.60	$0.05	$45.72
	5001-6000	90%	$29.31	-$3.50	$1.17	$6.33	$5.90	$1.90	$0.60	$0.05	$44.09
	4001-5000	85%	$27.68	-$3.50	$1.11	$6.33	$5.90	$1.90	$0.60	$0.05	$42.46
	3001-4000	80%	$26.06	-$3.50	$1.04	$6.33	$5.90	$1.90	$0.60	$0.05	$40.84
	2001-3000	75%	$24.43	-$3.50	$0.98	$6.33	$5.90	$1.90	$0.60	$0.05	$39.21
	1001-2000	70%	$22.80	-$3.50	$0.91	$6.33	$5.90	$1.90	$0.60	$0.05	$37.58
	0 - 1000	65%	$21.17	-$3.50	$0.85	$6.33	$5.90	$1.90	$0.60	$0.05	$35.95

Covering the following Counties in the State of Minnesota, Aitkin, Becker, Beltrami, Carlton, Cass, Clearwater, Cook, Lake, Crow Wing, Hubbard, Itasca, Kittson, Koochiching, Lake of the Woods, Manomen, Marshall, Norman, Otter Tail, Pennington, Red Lake , Roseau, St. Louis, Wadena, Wilkin and that part of Clay County outside of a 5 mile radius of Moorhead and that part of Polk County outside of a 5 mile radius of East Grand Forks. In Wisconsin the County of Douglas and that portion of Bayfield County west of Highway 63, and west of a line drawn between Drummond and Herbster and the Lake Superior shore, including the cities of Drummond and Herbster.

May 1, 2016 Increase: $1.75 Allocation TBD **May 7, 2017 Increase: $1.85 Allocation TBD**

INTERNATIONAL UNION OF OPERATING ENGINEERS, LOCAL NO. 49
RATES FOR THE:

BUILDERS AGREEMENT – MINNESOTA

WAGES EFFECTIVE MAY 1, 2016 - ZONE 1

Group	Wages	2% of Gross Wages Excluding Fringes	H&W	HRA	Pension	Appren-ticeship Training	Total	FCF $.02***	"Voluntary" **NOT** Included In Total Pkg C.A.F. $.04**
1	$39.14	*	$9.10	$.50	$8.30	$.50	$57.54	$.02	$.04
2	$38.80	*	$9.10	$.50	$8.30	$.50	$57.20	$.02	$.04
3	$37.39	*	$9.10	$.50	$8.30	$.50	$55.79	$.02	$.04
4	$37.05	*	$9.10	$.50	$8.30	$.50	$55.45	$.02	$.04
5	$36.13	*	$9.10	$.50	$8.30	$.50	$54.53	$.02	$.04
6	$34.62	*	$9.10	$.50	$8.30	$.50	$53.02	$.02	$.04
7	$33.50	*	$9.10	$.50	$8.30	$.50	$51.90	$.02	$.04
8	$31.49	*	$9.10	$.50	$8.30	$.50	$49.89	$.02	$.04

WAGES EFFECTIVE MAY 1, 2016 - ZONE 2

Group	Wages	2% of Gross Wages Excluding Fringes	H&W	HRA	Pension	Appren-ticeship Training	Total	FCF $.02***	"Voluntary" **NOT** Included In Total Pkg C.A.F. $.04**
1	$37.25	*	$9.10	$.50	$8.30	$.50	$55.65	$.02	$.04
2	$36.93	*	$9.10	$.50	$8.30	$.50	$55.33	$.02	$.04
3	$35.60	*	$9.10	$.50	$8.30	$.50	$54.00	$.02	$.04
4	$35.28	*	$9.10	$.50	$8.30	$.50	$53.68	$.02	$.04
5	$34.37	*	$9.10	$.50	$8.30	$.50	$52.77	$.02	$.04
6	$32.95	*	$9.10	$.50	$8.30	$.50	$51.35	$.02	$.04
7	$31.89	*	$9.10	$.50	$8.30	$.50	$50.29	$.02	$.04
8	$30.00	*	$9.10	$.50	$8.30	$.50	$48.40	$.02	$.04

INTERNATIONAL UNION OF OPERATING ENGINEERS, LOCAL No. 49
FOR THE:

HIGHWAY AND HEAVY WAGES EFFECTIVE MAY 1, 2016

EASTERN METROPOLITAN ZONE-(ZONE 1)

Group	Wages	1 ½% of Gross Wages Excluding Fringes	H/W	HRA	Pension	Appren.	Totals	FCF $.02	"Voluntary" **NOT** Incl. in total Pkg IPF $.04
1	$35.39	**	$9.10	$1.00	$8.30	$.50	$54.29	$.02	$.04
2	34.39	**	9.10	1.00	8.30	.50	53.29	.02	.04
3	33.84	**	9.10	1.00	8.30	.50	52.74	.02	.04
4	33.54	**	9.10	1.00	8.30	.50	52.44	.02	.04
5	30.50	**	9.10	1.00	8.30	.50	49.40	.02	.04
6	29.29	**	9.10	1.00	8.30	.50	48.19	.02	.04

REMAINDER OF EASTERN ZONE-(ZONE 2)

Group	Wages	1 ½% of Gross Wages Excluding Fringes	H/W	HRA	Pension	Appren.	Totals	FCF $.02	"Voluntary" **NOT** Incl. in total Pkg IPF $.04
1	$32.73	**	$9.10	$1.00	$8.30	$.50	$51.63	$.02	$.04
2	31.73	**	9.10	1.00	8.30	.50	50.63	.02	.04
3	31.28	**	9.10	1.00	8.30	.50	50.18	.02	.04
4	30.98	**	9.10	1.00	8.30	.50	49.88	.02	.04
5	28.41	**	9.10	1.00	8.30	.50	47.31	.02	.04
6	27.54	**	9.10	1.00	8.30	.50	46.44	.02	.04

WESTERN ZONE-(ZONE 3)

Group	Wages	1 ½% of Gross Wages Excluding Fringes	H/W	HRA	Pension	Appren.	Totals	FCF $.02	"Voluntary" **NOT** Incl. in total Pkg IPF $.04
1	$27.35	**	$9.10	$1.00	$8.30	$.50	$46.25	$.02	$.04
2	26.35	**	9.10	1.00	8.30	.50	45.25	.02	.04
3	25.42	**	9.10	1.00	8.30	.50	44.32	.02	.04
4	25.11	**	9.10	1.00	8.30	.50	44.01	.02	.04
5	23.40	**	9.10	1.00	8.30	.50	42.30	.02	.04
6	22.80	**	9.10	1.00	8.30	.50	41.70	.02	.04

Local 106 Painters & Drywall Wage Rates
Effective May 2, 2016

Journeyperson Wage Rates:

Res., Comm. & Indus. Repaint	Base	Health & Welfare	Pension	Annuity	FTI/UM	FTI/NT'L	FCF	LMCI	MPWEA	STAR	DC82/FCF	**Total**	Vac *	Check-off Dues**
Class I	$28.36	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$45.43	$2.95	$1.79
Class II	$28.96	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$46.03	$2.95	$1.81

New Comm. & New Indus.	Base	Health & Welfare	Pension	Annuity	FTI/UM	FTI/NT'L	FCF	LMCI	MPWEA	STAR	DC82/FCF	**Total**	Vac *	Check-off Dues**
Class I	$29.86	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$46.93	$2.95	$1.84
Class II	$30.46	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$47.53	$2.95	$1.86

Foremen in charge of five (5) or more journeypersons shall be paid $1.00 per hour over the journeyperson rate.

Fair Contracting Foundation: $0.01 paid by employer, $0.01 paid by employee from Total Package.

Painter Apprentice

Hours	**%**	Base	Health & Welfare	Pension	Annuity	FTI/UM	FTI/NT'L	FCF	LMCI	MPWEA	STAR	DC82/FCF	**Total**	Vac *	Check-off Dues**
0-1000	50	$14.93	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$32.00	$2.95	$1.32
1001-2000	55	$16.42	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$33.49	$2.95	$1.37
2001-3000	60	$17.92	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$34.99	$2.95	$1.42
3001-4000	70	$20.90	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$37.97	$2.95	$1.53
4001-5000	80	$23.89	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$40.96	$2.95	$1.63
5001-6000	90	$26.87	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$43.94	$2.95	$1.74

Drywall Taper Appr

Hours	**%**	Base	Health & Welfare	Pension	Annuity	FTI/UM	FTI/NT'L	FCF	LMCI	MPWEA	STAR	DC82/FCF	**Total**	Vac *	Check-off Dues**
0-500	50	$15.23	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$32.30	$2.95	$1.33
501-1000	60	$18.28	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$35.35	$2.95	$1.44
1001-1500	70	$21.32	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$38.39	$2.95	$1.54
1501-2000	75	$22.85	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$39.92	$2.95	$1.60
2001-2500	80	$24.37	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$41.44	$2.95	$1.65
2501-3000	85	$25.89	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$42.96	$2.95	$1.70
3001-3500	90	$27.41	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$44.48	$2.95	$1.76
3501-4000	95	$28.94	$7.20	$5.40	$3.75	$0.37	$0.10	$0.01	$0.10	$0.03	$ 0.10	$0.01	$46.01	$2.95	$1.81

*This Vacation Contribution is included in the taxable wage listed above, then deducted and remitted along with your Health & Welfare contribution.

PLUMBERS & STEAMFITTERS LOCAL #11

4402 AIRPARK BLVD.
DULUTH, MN 55811

JEFFREY DAVEAU SR.
BUSINESS MANAGER

218-727-2199 PHONE
218-727-2298 FAX

WAGE & BENEFIT REVISION EFFECTIVE MAY 2, 2016

BUILDING TRADES JOURNEYMAN

Base Pay	**$35.69**
Savings Fund	2.00
Dues Check off	.96
Building Fund	.20
Organizing Fund	.15
UA-PEC	.05
Local PAC	.01
Death Assessment	.01
Total Taxable	**$39.07**

Fringes	
Health & welfare	7.20
H R Fund	.15
Local Pension	6.25
National Pension	.78
Money Purchase	3.50
Training Fund	.50
International Training Fund	.10
Industry Fund	.35
H.V.A.C	.25
Total Fringes	**$19.08**
Total package	**$58.15**

Foreman $2.50 over Base Pay
General Foreman $3.50 over Base Pay

WAGES AS OF 5-2-2016	JOURNEYMAN	95%	90%	85%	80%	75%	70%
TAXABLE		⬇	⬇	⬇	⬇	⬇	⬇
BASE PAY	$ 35.69	$ 33.91	$ 32.12	$ 30.34	$ 28.55	$ 26.77	$ 24.98
SAVINGS FUND	$ 2.00	$ 1.90	$ 1.80	$ 1.70	$ 1.60	$ 1.50	$ 1.40
UNION DUES & ASSESSMENTS	$ 1.38	$ 1.38	$ 1.38	$ 1.38	$ 1.38	$ 1.38	$ 1.38
TOTAL TAXABLE	$ 39.07	$ 37.19	$ 35.30	$ 33.42	$ 31.53	$ 29.65	$ 27.76
FRINGES							
TRAINING FUND	$ 0.50	$ 0.50	$ 0.50	$ 0.50	$ 0.50	$ 0.50	$ 0.50
H R FUND	$ 0.15	$ 0.15	$ 0.15	$ 0.15	$ 0.15	$ 0.15	$ 0.15
HVAC	$ 0.25	$ 0.25	$ 0.25	$ 0.25	$ 0.25	$ 0.25	$ 0.25
UA TRAINING FUND	$ 0.10	$ 0.10	$ 0.10	$ 0.10	$ 0.10	$ 0.10	$ 0.10
HEALTH & WELFARE	$ 7.20	$ 7.20	$ 7.20	$ 7.20	$ 7.20	$ 7.20	$ 7.20
UA PENSION	$ 0.78	$ -	$ -	$ -	$ -	$ -	$ -
LOCAL PENSION	$ 6.25	$ 6.25	$ 6.25	$ 6.25	$ 6.25	$ 6.25	$ 6.25
MONEY PURCHASE	$ 3.50	$ 3.33	$ 3.15	$ 2.98	$ 2.80	$ 2.63	$ 2.45
INDUSTRY DEVELOPMENT	$ 0.35	$ 0.35	$ 0.35	$ 0.35	$ 0.35	$ 0.35	$ 0.35
TOTAL FRINGES	$ 19.08	$ 18.13	$ 17.95	$ 17.78	$ 17.60	$ 17.43	$ 17.25
TOTAL PACKAGE	$ 58.15	$ 55.32	$ 53.25	$ 51.20	$ 49.13	$ 47.08	$ 45.01

WAGES AS OF 5-2-2016	65%	60%	55%	50%	45%	40%	
TAXABLE	⬇	⬇	⬇	⬇	⬇	⬇	
BASE PAY	$ 23.20	$ 21.41	$ 19.63	$ 17.85	$ 16.06	$ 14.28	
SAVINGS FUND	$ 1.30	$ 1.20	$ 1.10	$ 1.00	$ 0.90	$ 0.80	
UNION DUES AND ASSESSMENTS	$ 1.38	$ 1.38	$ 1.38	$ 1.38	$ 1.38	$ 1.38	
TOTAL TAXABLE	$ 25.88	$ 23.99	$ 22.11	$ 20.23	$ 18.34	$ 16.46	
FRINGES							
TRAINING FUND	$ 0.50	$ 0.50	$ 0.50	$ 0.50	$ 0.50	$ 0.50	
HR FUND	$ 0.15	$ 0.15	$ 0.15	$ 0.15	$ 0.15	$ 0.15	
HVAC	$ 0.25	$ 0.25	$ 0.25	$ 0.25	$ 0.25	$ 0.25	
UA TRAINING FUND	$ 0.10	$ 0.10	$ 0.10	$ 0.10	$ 0.10	$ 0.10	
HEALTH & WELFARE	$ 7.20	$ 7.20	$ 7.20	$ 7.20	$ 7.20	$ 7.20	
UA PENSION	$ -	$ -	$ -	$ -	$ -	$ -	
LOCAL PENSION	$ 6.25	$ 6.25	$ 6.25	$ 6.25	$ 6.25	$ 6.25	
MONEY PURCHASE	$ 2.28	$ -	$ -	$ -	$ -	$ -	
INDUSTRY DEVELOPMENT	$ 0.35	$ 0.35	$ 0.35	$ 0.35	$ 0.35	$ 0.35	
TOTAL FRINGES	$ 17.08	$ 14.80	$ 14.80	$ 14.80	$ 14.80	$ 14.80	
TOTAL PACKAGE	$ 42.96	$ 38.79	$ 36.91	$ 35.03	$ 33.14	$ 31.26	

WAGE BREAKDOWN FOR LOCAL UNION # 11 APPRENTICES - BEGINNING MAY 2, 2016

Wages/Benefits Roofers Local Union 96 - Duluth Area

Effective July 1, 2016

Through June 30, 2017

Classification		Basic Hourly Wage	Vac. After Taxes	Assess. After Taxes	Taxable Wage Rate	National Pension Rate	Educ Fund Rate	Annuity Fund Rate	Health/ Welfare Rate	H&W HRA Rate	Appr. Training Rate	Roofing Industry Rate	Total Cost to Employer
Journeyman		30.00	2.50	0.50	33.00	3.55	0.03	3.09	7.60	0.50	0.35	0.30	48.42
Foreman		32.00	2.50	0.50	35.00	3.80	0.03	3.09	7.60	0.50	0.35	0.30	50.67
Apprentice Percentages Based on Hours Worked for Advancement:													
55%	A 0-250	17.75		0.40	18.15	0.25	0.03				0.35	0.30	19.08
55%	B 251-1500	17.75		0.40	18.15	0.25	0.03		6.00		0.35	0.30	25.08
60%	1501-2500	19.30		0.50	19.80	0.25	0.03	0.25	7.00		0.35	0.30	27.98
Freeze Unless 144 Hours (Phase 1) of Related Training is Completed													
65%	2501-3000	20.95		0.50	21.45	0.50	0.03	0.50	7.60	0.50	0.35	0.30	31.23
70%	3001-3500	22.60		0.50	23.10	0.50	0.03	0.50	7.60	0.50	0.35	0.30	32.88
75%	3501-4000	24.25		0.50	24.75	0.50	0.03	0.50	7.60	0.50	0.35	0.30	34.53
80%	4001-4500	23.40	2.50	0.50	26.40	0.75	0.03	0.75	7.60	0.50	0.35	0.30	36.68
Freeze Unless 288 Hours (Phase 2) of Related Training is Completed													
85%	4501-5000	25.05	2.50	0.50	28.05	0.75	0.03	0.75	7.60	0.50	0.35	0.30	38.33
90%	5001-5500	26.70	2.50	0.50	29.70	1.00	0.03	0.75	7.60	0.50	0.35	0.30	40.23
95%	5501-6000	28.35	2.50	0.50	31.35	1.00	0.03	0.75	7.60	0.50	0.35	0.30	41.88

Advancement to Journeyman if All Related Training (Phase 3) is Completed and **6000** Hours Worked

Due:		
	July 1, 2017:	$1.30
	July 1, 2018:	$1.30
	July 1, 2019:	$1.40
	July 1, 2020:	$1.40

Expiration date: June 30, 2021

DULUTH
COMMERCIAL & INDUSTRIAL
SHEET METAL WAGE RATES

EFFECTIVE MAY 2, 2016 - April 30, 2017

SOUTHERN ST. LOUIS, AITKIN, CARLTON, LAKE, COOK, AND DOUGLAS COUNTIES

			TAXABLE BASE*	SASMI	Health Fund	NATL PENSION	SUPP. PENSION	LOCAL 10 PENSION	FCF & LOCAL T.F.	SMOHI NEMI & ITI	LOCAL I.F. & DRUG TESTING	TOTAL PACKAGE
Journeyman			$31.87	$1.65	$9.27	$11.18	$2.37	$0.45	$0.64	$0.17	$0.23	$57.83
Foreman			33.87	1.65	9.27	11.18	2.37	0.45	0.64	0.17	0.23	59.83
General Foreman			35.87	1.65	9.27	11.18	2.37	0.45	0.64	0.17	0.23	61.83
Apprentice	HOURS											
	0-1000	55	17.53	1.04	9.27	6.15	1.30	0.25	0.64	0.17	0.23	36.58
	1001-2000	59	18.80	1.09	9.27	6.60	1.40	0.27	0.64	0.17	0.23	38.47
	2001-3000	63	20.08	1.14	9.27	7.04	1.49	0.28	0.64	0.17	0.23	40.34
	3001-4000	68	21.67	1.21	9.27	7.60	1.61	0.31	0.64	0.17	0.23	42.71
	4001-5000	72	22.95	1.27	9.27	8.05	1.71	0.32	0.64	0.17	0.23	44.61
	5001-6000	76	24.22	1.32	9.27	8.50	1.80	0.34	0.64	0.17	0.23	46.49
	6001-7000	80	25.50	1.38	9.27	8.94	1.90	0.36	0.64	0.17	0.23	48.39
	7001-8000	84	26.77	1.43	9.27	9.39	1.99	0.38	0.64	0.17	0.23	50.27
Classified worker												
	0-500	45	14.17	0.00	0.00	0.00	0.00	0.00	0.64	0.17	0.00	14.98
Plan B Single	501-on	45	14.17	0.00	3.09	2.62	0.00	0.00	0.64	0.17	0.00	20.69
Plan B Family	501-on	45	10.12	0.00	7.14	2.62	0.00	0.00	0.64	0.17	0.00	20.69

*The Taxable Base Pay rate includes $2.58 Vacation and Organizing deduction for journeymen and $1.58 for apprentices. The Vacation Fund deduction is $2.00 per hour for journeymen ($1.00 per hour for apprentices) and $.58 per hour for Organizing for both Journeymen and apprentices. For classified workers, the Vacation Fund deduction is $.55 per hour and there is a $.23 deduction for Organizing for a total deduction of $.78.

SASMI NOTE: The SASMI rate for Foreman and General Foreman are the same as the rate for Journeymen and there is no longer a different SASMI rate for overtime hours on any classification. All SASMI hours are paid at the straight time rate.

Effective May 1, 2017, these will be a $1.65 total package increase and on April 30, 2018 these will be a $1.75 total package increase. The fringe benefit allocation will be made at those times.

The current IRS mileage rate is $.54

May 6, 2016 Contract expires April 28, 2019

Shawn Broadrick
Business Manager

Brian W. Dunn
Financial Secretary Treasurer

James E. Tucker
President-Organizer

SPRINKLER FITTERS

Minnesota Breakdown of Wage and Benefit Package

Wage Rate	4/1/16	4/1/17	4/1/18	4/1/19	4/1/20
	$35.08	$36.33	$37.58	TBD	TBD

Foreman's Rate: $2.75 above journeyman scale
General Foreman: $5.00 above journeyman scale (22+ men on job)
Local Union 669 has a 5% dues check-off; 2 1/2% for Apprentices Class 1-4

Payroll Deduction:

Extended Benefit Fund: $.25 per hour for all hours worked payable to Local Union 669

Industry Advancement-State of Minnesota

Class 5 and higher $.25 per hour for all hours worked payable to Local Union 669

Benefit Package

Health & Welfare 4/1/16	$8.77	per hour for all hours worked
Health & Welfare 1/1/17	$9.17	per hour for all hours worked
Health & Welfare 1/1/18	$9.67	per hour for all hours worked
Health & Welfare 1/1/19	$10.02	per hour for all hours worked
Health & Welfare 1/1/20	TBD	
Health & Welfare 1/1/21	TBD	
Pension 4/1/16	$6.05	per hour for all hours worked
Pension 1/1/17	$6.20	per hour for all hours worked
Pension 1/1/18	$6.40	per hour for all hours worked
Pension 1/1/19	$6.60	per hour for all hours worked
Pension 1/1/20	TBD	
Pension 1/1/21	TBD	
Education 4/1/16	$ .35	per hour for all hours worked
Education 4/1/17	$ .37	per hour for all hours worked
Education 4/1/18	$ .42	per hour for all hours worked
International Training Fund 4/1/16	$ .10	per hour for all hours worked
Industry Promotion 4/1/16	$ .25	per hour for all hours worked
Supplemental Pension 4/1/16	$2.50	per hour for all hours worked
Supplemental Pension 4/1/17	$2.65	per hour for all hours worked
Supplemental Pension 4/1/18	$2.90	per hour for all hours worked
Supplemental Pension 4/1/19	TBD	
Supplemental Pension 4/1/20	TBD	

Travel Expenses	4/1/16	1/1/17	1/1/18	1/1/19
0-60 miles	No expenses	No expenses	No expenses	No expenses
60-80 miles	$17.50	$19.00	$19.00	$19.00
80-100 miles	$27.50	$29.00	$29.00	$29.00
100+ miles	$80.00	$90.00	$100.00	$105.00

If you should have any additional questions, please feel free to contact Business Agent James Westby at (507) 493-5671 or this office.

Created May 2016

Road Sprinkler Fitters Local Union No. 669
7050 Oakland Mills Road • Suite 200 • Columbia, Maryland 21046
(410) 381-4300 • fax: (301) 621-8045 • www.sprinklerfitters669.org

SCHEDULE 9 - SUNDAY AND HOLIDAYS

A. All work performed between midnight Saturday night and midnight Sunday night shall be classed as Sunday work and paid for at the rate of two (2) times the regular hourly rate; except as a regular shift which ends on Sunday or a holiday morning or begins at or after 6:00 p.m. on a Sunday or a holiday evening, shall be paid at the straight time rate.

B. Work performed on Sundays and the following holidays shall be compensated for at the rate of two (2) times the regular hourly rate: New Years Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. When Monday is designated and celebrated as one of the above listed legal holidays according to the regulations produced by the Federal government, they shall be observed as such.

DULUTH, SUPERIOR, AND IRON RANGE CONTRACTORS/BUILDERS SUPPLEMENTS - LOCAL 346

SCHEDULE 1 - CLASSIFICATIONS AND WAGES

Classifications:

GROUP 1
Boom Truck Operator

GROUP 2
Ready-Mix Driver
Tractor-Trailer Driver

GROUP 3
Driver and Warehouseman Foreman
Mechanic (where required)
Fork Lift Operator
Tandem or 3 Axle Truck Driver

GROUP 4
Warehouseman
Farm Tractor Driver
Single or 2 Axle Truck Driver
Dumpman

May 1, 2014

Group	Wages	Health & Welfare	Pension
1	$26.60	$ 7.95	$ 5.55
2	$26.05	$ 7.95	$ 5.55
3	$25.85	$ 7.95	$ 5.55
4	$25.60	$ 7.95	$ 5.55

Boom Truck Operator to receive an additional 50¢ increase 1st and 2nd year above the current rate in effect.

May 1, 2015

Group	Wages	Health & Welfare	Pension
1	$27.10	$ 8.15	$ 6.30
2	$26.55	$ 8.15	$ 6.30
3	$26.35	$ 8.15	$ 6.30
4	$26.10	$ 8.15	$ 6.30

May 1, 2016

Group	Wages	Health & Welfare	Pension
1	$27.75	$ 8.35	$ 6.90
2	$27.20	$ 8.35	$ 6.90
3	$27.00	$ 8.35	$ 6.90
4	$26.75	$ 8.35	$ 6.90

All monies negotiated into the benefits will be used only as needed.

Note A: When a contractor deems it advisable to hire an Apprentice Mechanic, his scale shall be as follows:

1st Year: 70% of Class 1 scale
2nd Year: 85% of Class 1 scale
After second full year, 100% of Class 1 scale

Health & Welfare and Pension paid to Minnesota Teamsters Construction Division Fringe Benefit Funds, c/o Zenith Administrators, P.O. Box 31, Minneapolis, Minnesota 55440-

GENERAL MECHANICAL SYMBOLS

- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET
- NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- CONTINUATION SYMBOL
- Room — ROOM NAME AND NUMBER
- 1 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT

HVAC SYMBOLS

- 16"x8" — SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
- 16"/8" — OVAL DUCT SIZE TAG (WIDTH / HEIGHT)
- 16"Ø — ROUND DUCT SIZE TAG (DIAMETER)
- (E) — EXISTING DUCT TAG
- DUCT BEING DEMOLISHED
- S/A — SUPPLY AIR
- O/A — OUTSIDE AIR
- R/A — RETURN AIR
- T/A — TRANSFER AIR
- E/A — EXHAUST AIR
- U/A — RELIEF AIR
- GE/A — GREASE EXHAUST AIR
- SE/A — SMOKE EXHAUST AIR
- DROP — RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
- DROP — ROUND SUPPLY/OUTSIDE AIR DUCT RISE
- DROP — RECTANGULAR RETURN/TRANSFER AIR DUCT RISE
- DROP — ROUND RETURN/TRANSFER AIR DUCT RISE
- DROP — RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE
- DROP — ROUND EXHAUST/RELIEF AIR DUCT RISE
- SUPPLY OUTLET
- RETURN/EXHAUST INLET
- SECTORIZING BAFFLE OR BLANKOFF PANEL
- INLET/OUTLET SIZE
- A 12" 500 (0' - 0"AFF) — GRILLES, REGISTERS, AND DIFFUSERS TAG; CFM; ELEVATION (CENTER OF DIFFUSER FACE); TYPE (SEE SCHEDULE)
- LINEAR DIFFUSER
- J 12"-48"-2 500 (0' - 0"AFF) — NECK SIZE; SLOT LENGTH; NUMBER OF SLOTS; LINEAR DIFFUSER TAG; CFM; ELEVATION (CENTER OF DIFFUSER FACE); TYPE (SEE SCHEDULE)
- MECHANICAL EQUIPMENT
- XXX-X — MECHANICAL EQUIPMENT TAG
- EXISTING MECHANICAL EQUIPMENT
- (E)XXX-X — EXISTING MECHANICAL EQUIPMENT TAG (TYPICAL FOR ALL EXISTING TAGS)
- MECHANICAL EQUIPMENT FOR REFERENCE
- XXX-X — MECHANICAL EQUIPMENT TAG (REFER TO OTHER DISCIPLINE FOR ADDITIONAL INFORMATION)

CARBON DIOXIDE SENSOR	CO2	TH	TEMPERATURE & HUMIDITY SENSOR
CARBON MONOXIDE SENSOR	CO	TS	TEMPERATURE SENSOR
NITROGEN DIOXIDE SENSOR	NO2	T	THERMOSTAT
HUMIDITY SENSOR	HS	SW	MANUAL SWITCH
HUMIDISTAT	H	S	SENSOR

- F — FIRE DAMPER
- S — SMOKE DAMPER
- M — MOTORIZED DAMPER
- B — MANUAL BALANCING DAMPER
- D — BACKDRAFT DAMPER
- C — COMBINATION FIRE/SMOKE DAMPER

PLUMBING AND PIPING SYMBOLS

- 2" — PIPE SIZE TAG (DIAMETER)
- ABOVE GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE TAG
- BELOW GROUND PIPING
- INV. ELEV.-5' - 1" — PIPE INVERT ELEVATION TAG
- (E) — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED
- CHWR — CHILLED WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- CWS — CONDENSER WATER SUPPLY
- HWR — HEATING WATER RETURN
- HWS — HEATING WATER SUPPLY
- G — NATURAL GAS
- PG — PROPANE GAS
- REF-L — REFRIGERANT-LIQUID
- REF-S — REFRIGERANT-SUCTION
- REF-HG — REFRIGERANT-HOT GAS
- STM — STEAM
- CDR — CONDENSATE RETURN
- CWV — COMBINATION WASTE & VENT
- CA — COMPRESSED AIR
- CD — CONDENSATE DRAINAGE
- CW — DOMESTIC COLD WATER
- F-CW — DOMESTIC COLD WATER-FILTERED
- H-CW — DOMESTIC COLD WATER-HARD
- S-CW — DOMESTIC COLD WATER-SOFT
- HW — DOMESTIC HOT WATER
- HW 140° — DOMESTIC HOT WATER 140°
- CHW — DOMESTIC HOT WATER-CIRCULATING
- CHW 140° — DOMESTIC HOT WATER-CIRCULATING 140°
- GV — GREASE VENT
- GW — GREASE WASTE
- OV — OIL VENT
- OW — OIL WASTE
- PD — PUMP DISCHARGE
- V — SANITARY VENT
- SS — SANITARY SEWER
- SHWR — SOLAR HOT WATER RETURN
- SHWS — SOLAR HOT WATER SUPPLY
- SD — STORM DRAINAGE
- OSD — STORM DRAINAGE-OVERFLOW
- PIPE DROP
- PIPE RISE
- PIPE TEE
- CAP
- 4" 4" 2" 4" — PLUG; REDUCING 45 DEGREE TEE; 45 DEGREE TEE
- DOMESTIC WATER METER
- FLOW MEASURING AND BALANCING DEVICE
- BALL VALVE
- CHECK VALVE
- THREE WAY VALVE
- MOTORIZED CONTROL VALVE
- THREE WAY MOTORIZED CONTROL VALVE
- PRESSURE REDUCING VALVE
- SOLENOID VALVE
- BUTTERFLY VALVE
- FLOOR DRAIN FIXTURE
- DRAIN SIZE
- 6" FD-2 — DRAIN TAG; TYPE (SEE SCHEDULE); X" V UP THRU FLOOR
- ROOF DRAIN FIXTURE
- DRAIN SIZE
- 4" ORD-1 4" RD-1 — DRAIN TAG; TYPE (SEE SCHEDULE)
- PLUMBING FIXTURE
- HYD-2 — PLUMBING FIXTURE TAG; TYPE (SEE SCHEDULE)

FIRE PROTECTION SYMBOLS

- FP-D — FIRE PROTECTION DRY
- FP-O — FIRE PROTECTION OTHER
- FP-PA — FIRE PROTECTION PRE-ACTION
- FP-W — FIRE PROTECTION WET
- FP-DOM-W — COMBINATION FIRE & DOMESTIC
- UPRIGHT SPRINKLER HEAD
- PENDENT SPRINKLER HEAD
- RECESSED SPRINKLER HEAD
- CONCEALED SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD
- D — 'D' REPRESENTS DRY SPRINKLER HEAD
- 48"x18" S/A — OBSTRUCTION FROM DUCTWORK 48" AND GREATER

ABBREVIATIONS

&	AND	ID	INDIRECT
Ø	ROUND	IN	INCH
A	AIR	INL	INLET
AB	ABOVE BASE	INSUL	INSULATION
ABV	ABOVE	INT	INTERIOR
AC	AIR CONDITIONING	INV	INVERT
ACOUS	ACOUSTICAL	INWG	INCHES WATER GAUGE
AD	AREA DRAIN	JST SPC	JOIST SPACE
ADD	ADDENDUM	JT	JOINT
ADDL	ADDITIONAL	LAB	LABORATORY
AFF	ABOVE FINISHED FLOOR	LB	POUND
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	LB/HR	POUNDS PER HOUR
AG	ABOVE GROUND	LAT	LEAVING AIR TEMPERATURE
ALT	ALTERNATE	LF	LINEAL FOOT
ALUM	ALUMINUM	LOC	LOCATION
AP	ACCESS PANEL	LP	LOW PRESSURE
APPROX	APPROXIMATE	LPG	LIQUEFIED PETROLEUM GAS
ARCH	ARCHITECT/ARCHITECTURAL	LR	LIQUID REFRIGERANT
AV	ACID RESISTANT VENT	LS	LAWN SPRINKLER
AW	ACID RESISTANT WASTE	LVR	LOUVER
AUTO	AUTOMATIC	LWT	LEAVING WATER TEMPERATURE
BFF	BELOW FINISHED FLOOR	M/A	MIXED AIR
BLDG	BUILDING	MAN	MANUAL
BLW	BELOW	MATL	MATERIAL
BM	BEAM	MAV	MANUAL AIR VENT
BO	BY OTHER	MAX	MAXIMUM
BOT	BOTTOM	MBD	MOTORIZED BYPASS DAMPER
BSMT	BASEMENT	MBH	ONE THOUSAND BTU PER HOUR
BTU	BRITISH THERMAL UNITS	MCF	ONE THOUSAND CUBIC FEET
BTUH	BRITISH THERMAL UNITS PER HOUR	MCW	MAKE-UP COLD WATER
BTWN	BETWEEN	MD	MOTORIZED DAMPER
CA	COMPRESSED AIR	MECH	MECHANICAL
CAP	CAPACITY	MFR	MANUFACTURER
CB	CATCH BASIN	MH	MANHOLE
CCW	COUNTER CLOCKWISE	MIN	MINIMUM
CFCV	CONSTANT FLOW CONTROL VALVE	MISC	MISCELLANEOUS
CFM	CUBIC FEET PER MINUTE	MTR	MOTOR
CHW	CIRCULATING HOT WATER	MU/A	MAKE-UP/AIR
CI	CAST IRON	N	NECK
CLG	CEILING	NC	NOISE CRITERIA
CLG	COOLING	NC	NORMALLY CLOSED
CO	CLEAN OUT	NIC	NOT IN CONTRACT
COL	COLUMN	NO	NUMBER
COMB	COMBINATION	NO	NORMALLY OPEN
CONC	CONCRETE	NOM	NOMINAL
COND	CONDENSATE	NTS	NOT TO SCALE
CONF	CONFERENCE	O	OXYGEN
CONN	CONNECT	O/A	OUTSIDE AIR
CONST	CONSTRUCTION	OC	ON CENTER
CONT	CONTINUE/CONTINUATION	OF	OVERFLOW
CONTR	CONTRACT/CONTRACTOR	OPNG	OPENING
COORD	COORDINATE	ORD	OVERFLOW ROOF DRAIN
CTR	CENTER	PD	PRESSURE DROP
CUFT	CUBIC FEET	PIV	POST INDICATOR VALVE
CV	CHECK VALVE	PLBG	PLUMBING
CW	COLD WATER	PR	PAIR
CW	CLOCKWISE	PREL	PRELIMINARY
D	DEGREE	PRESS	PRESSURE
DB	DRY BULB	PRIM	PRIMARY
DET	DETAIL	PRV	PRESSURE REDUCING VALVE
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
DIAG	DIAGONAL	PSIG	POUNDS PER SQUARE INCH GAUGE
DISCH	DISCHARGE	PW	POTABLE WATER
DIV	DIVISION	PWR	POWER
DI	DEIONIZED WATER	R	DUCT RISER
DMPR	DAMPER	R/A	RETURN AIR
DN	DOWN	RCP	RADIANT CEILING PANEL
DWG	DRAWING	RD	ROOF DRAIN
DW	DISTILLED WATER	REC	RECESSED
EA	EACH	RED	REDUCER
EAT	ENTERING AIR TEMPERATURE	REFR	REFRIGERATION
EL	ELBOW	RH	RELATIVE HUMIDITY
ELEC	ELECTRICAL	REQD	REQUIRED
ELEV	ELEVATION	REV	REVERSE
EP	EXPLOSION PROOF	RL/A	RELIEF AIR
EQ	EQUAL	RM	ROOM
EQUIP	EQUIPMENT	RPM	REVOLUTIONS PER MINUTE
EWC	ELECTRIC WATER COOLER	RW	RAIN WATER
EWT	ENTERING WATER TEMPERATURE	SF	SQUARE FOOT
E/A	EXHAUST AIR	S/A	SUPPLY AIR
EAH	EXHAUST HOOD	SAN	SANITARY
EXIST	EXISTING	SCHED	SCHEDULE
EXP	EXPANSION	SECT	SECTION
EXPJT	EXPANSION JOINT	SF	SQUARE FOOT
EXT	EXTERIOR	SD	SMOKE DAMPER
F	DEGREES FAHRENHEIT	SHT	SHEET
FCO	FLOOR CLEAN OUT	SIM	SIMILAR
FD	FLOOR DRAIN	SLV	SLEEVE
FD	FIRE DAMPER	SM	SURFACE MOUNT
FDV	FIRE DEPARTMENT VALVE	SP	STANDPIPE
FHC	FIRE HOSE CABINET	SP	STATIC PRESSURE
FL	FLOOR	SPEC	SPECIFICATION
FLEX	FLEXIBLE	SPS	STATIC PRESSURE STATION
FLG	FLANGE	SQ	SQUARE
FO	FUEL OIL	SR	SUCTION REFRIGERANT
FOV	FUEL OIL VENT	SSD	SOIL SUBDRAIN
FOR	FUEL OIL RETURN	SS	STAINLESS STEEL
FOS	FUEL OIL SUPPLY	STD	STANDARD
FPM	FEET PER MINUTE	STM	STEAM
FRP	FIBERGLASS REINFORCED PIPE	STRUCT	STRUCTURAL
FS	FULL SIZE	SUCT	SUCTION
FS	FLOOR SINK	SUSP	SUSPENDED
FT	FOOT/FEET	T	THERMOSTAT
FTG	FOOTING	TCP	TEMPERATURE CONTROL PANEL
FTR	FIN TUBE RADIATION	TD	TEMPERATURE DROP
FUT	FUTURE	TDR	TRENCH DRAIN
GA	GAGE/GAUGE	TEFC	TOTALLY ENCLOSED FAN COOLED
GAL	GALLON	TEMP	TEMPERATURE
GALV	GALVANIZED	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UFD	UNDER FLOOR DUCT
GEN	GENERATOR	UG	UNDERGROUND
GENL	GENERAL	VAC	VACUUM
GPH	GALLONS PER MINUTE	V	VENT
GR	GRADE	VAV	VARIABLE AIR VOLUME
GW	GREASE WASTE	VEL	VELOCITY
HB	HOSE BIB	VENT	VENTILATION
HD	HEAD	VERT	VERTICAL
HORZ	HORIZONTAL	VOL	VOLUME
HP	HORSE POWER	VTR	VENT THROUGH ROOF
HP	HIGH PRESSURE	W	WASTE
HTG	HEATING	WB	WET BULB
HTR	HEATER	WCO	WALL CLEAN OUT
HW	HOT WATER	WH	WALL HYDRANT
HYD	HYDRANT		

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	FP	FIRE PUMP
ACC	AIR COOLED CONDENSER	GI	GREASE INTERCEPTOR
ACCU	AIR COOLING CONDENSING UNIT	GRV	GRAVITY ROOF VENTILATOR
AFMS	AIR FLOW MEASURING STATION	H	HUMIDIFIER
AHU	AIR HANDLING UNIT	HWP	HEATING WATER PUMP
AS	AIR SEPARATOR	HX	HEAT EXCHANGER
B	BOILER	HPU	HEAT PUMP UNIT
CF	CABINET FAN	HRU	HEAT RECOVERY UNIT
CF	CHEMICAL FEEDER	ILC	INLINE CENTRIFUGAL
CFP	CHEMICAL FEEDER PUMP	PF	PROPELLER FAN
CH	CHILLER	PRV	POWER ROOF VENTILATOR
CRU	CONDENSATE RETURN UNIT	PWF	POWER WALL FAN
CT	COOLING TOWER	RE	RETURN/EXHAUST FAN
CUH	CABINET UNIT HEATER	RTU	ROOFTOP UNIT
CWP	CONDENSER WATER PUMP	SA	SHOCK ABSORBER
CHWP	CHILLED WATER PUMP	SAT	SOUND ATTENUATOR
DBP	DOMESTIC WATER BOOSTER PUMP	SCAC	SOURCE CAPTURE AIR CLEANER
DC	DUCT MOUNTED COIL	SEP	SEWAGE EJECTOR PUMP
DCP	DOMESTIC WATER CIRCULATING PUMP	SF	SUPPLY FAN
EF	EXHAUST FAN	SP	SUMP PUMP
EDC	ELECTRIC DUCT COIL	UH	UNIT HEATER
ET	EXPANSION TANK	US	UTILITY SET
EWH	ELECTRIC WATER HEATER	UV	UNIT VENTILATOR
FCU	FAN COIL UNIT	WFMS	WATER FLOW MEASURING STATION
		WH	WATER HEATER

ELECTRICAL PROJECT GENERAL NOTES

A. PROVIDE CABLE AND OR CONDUIT AND WIRE AS REQUIRED TO ACHIEVE CIRCUITING SHOWN. SIZE CONDUCTORS PER NEC AMPACITY AND WIRE FILL CRITERIA. PROVIDE DEDICATED NEUTRAL AND GROUND CONDUCTORS FOR ALL CIRCUITING CU (UNO). INCREASE BRANCH CIRCUIT CONDUCTORS INCLUDING EQUIPMENT GROUNDING CONDUCTORS PROPORTIONALLY FOR NO MORE THAN 3% VOLTAGE DROP PER NEC 210.

B. PROVIDE CUTTING, PATCHING AND RESTORATION OF FINISHES NECESSARY FOR THIS WORK. SURFACES DAMAGED BY THIS WORK AND SPACES AROUND CONDUITS PASSING THROUGH FLOORS AND WALLS SHALL BE NEATLY PATCHED AND FINISHED TO MATCH EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED IN ANY MANNER. THE SPACES AROUND THE CONDUITS SHALL BE SEALED TO PREVENT ENTRANCE OF MOISTURE. PROVIDE FIRE STOPPING PER UL APPROVED METHODS.

C. COOPERATE WITH OTHER TRADES FOR PROPER INSTALLATION OF EQUIPMENT. CONSULT THE DRAWINGS OF OTHER TRADES OR CRAFTS TO AVOID CONFLICTS WITH EQUIPMENT, ETC. CONFLICTS SHALL BE RESOLVED PRIOR TO ROUGH-IN AND AT NO ADDITIONAL COST TO THE OWNER.

D. PROVIDE POWER WIRING AND CONNECT TO EACH ITEM OF EQUIPMENT FURNISHED BY OWNER AND OTHER TRADES AS SHOWN ON THE DRAWINGS. VERIFY ROUGH-IN REQUIREMENTS FOR EACH ITEM. FURNISH AND INSTALL MINOR ITEMS WHICH ARE OBVIOUSLY AND REASONABLY NECESSARY FOR COMPLETION.

E. LEAVE THE SITE CLEAN AND READY FOR OCCUPANCY. REMOVE DIRT, DEBRIS, EMPTY CARTONS, TOOLS, CONDUITS AND WIRE SCRAPS AND MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THIS DIVISION OF THE WORK DURING CONSTRUCTION. COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN MATERIALS AND LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.

F. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO FIELD COORDINATE ALL FINAL MECHANICAL AND EQUIPMENT LOCATIONS ALONG WITH CONNECTION REQUIREMENTS AND CONTROL WIRING PRIOR TO ROUGH-IN. ADJUST CORRESPONDING CIRCUIT BREAKER RATINGS AND BRANCH CIRCUITING ACCORDINGLY.

H. IT IS THE INTENT OF THESE DIAGRAMMATIC DESIGN BUILD/ASSIST DRAWINGS TO PROVIDE THE PROJECT SCOPE INCLUDING BUT NOT LIMITED TO PHASED DEMOLITION AND NEW CONSTRUCTION. EXISTING INFORMATION INDICATED ON THESE PLANS DOES NOT REPRESENT ALL EXISTING CONDITIONS. THIS CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS, SCOPE OF PHASING, AND PROJECT INTENT PRIOR TO BID SUBMISSION. NO EXTRA WILL BE ALLOWED DUE TOTHE LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

I. PROVIDE COMPLETE O&M MANUAL INCLUDING APPROVED SUBMITTAL DRAWINGS, WARRANTYINFORMATION FOR ALL PRODUCT SUPPLIED, AND MANUFACTURER'S OPERATION AND MAINTENANCE INSTRUCTIONS.

J. PROVIDE ELECTRONIC MANUFACTURER'S SUBMITTAL DRAWINGS FOR APPROVAL PRIOR TO RELEASE. ASSOCIATED WITH THE FOLLOWING: POWER DISTRIBUTION EQUIPMENT.

K. ELECTRICAL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED MASTER ELECTRICIAN. PROCURE PERMITS AND LICENCES AND PAY FEES ASSOCIATED WITH THIS WORK.

L. REMOVE ELECTRICAL RELATED EQUIPMENT (I.E. JUCNTION BOXES, RECEPTACLES, SWITCHES, DEVICES, ETC.) AFFECTED/ABANDONDED AS A RESULT OF DEMOLITION AND NEW CONSTRUCTION.

M. MATERIALS FURNISHED FOR THIS PROJECT SHALL BE NEW, COMMERCIAL GRADE, FREE OF DEFECTS, AND LISTED BY A NATIONALLY RECOGNIZEDTESTING LABORATORY UNO.

O. PERFORM WORK TO COMPLY WITH THE STANDARD PRACTICES FOR GOOD WORKMANSHIP PUBLISHED BY NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA). COMPLY WITH THE LATEST ENFORCED EDITION OF THE NATIONAL ELECTRICALCODE (NEC), LOCAL CODES, AMENDMENTS, AND ORDINANCES.

P. REFER TO BID FORM FOR ADD ALTERNATES.

Q. PROVIDE PRODUCT SUBMITTALS IN ACCORDANCE WITH THE GENERAL CONDITIONS FOR THE FOLLOWING: PANELBOARDS, SWITCHES

PROJECT GENERAL NOTES

* REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.
* THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS.
* THIS CONTRACTOR SHALL VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS.
* COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
* THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
* FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE MINNESOTA BUILDING CODE AND MINNESOTA MECHANICAL CODE.
* LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
* PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
* ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
* FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
* INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
* LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.

HVAC GENERAL NOTES

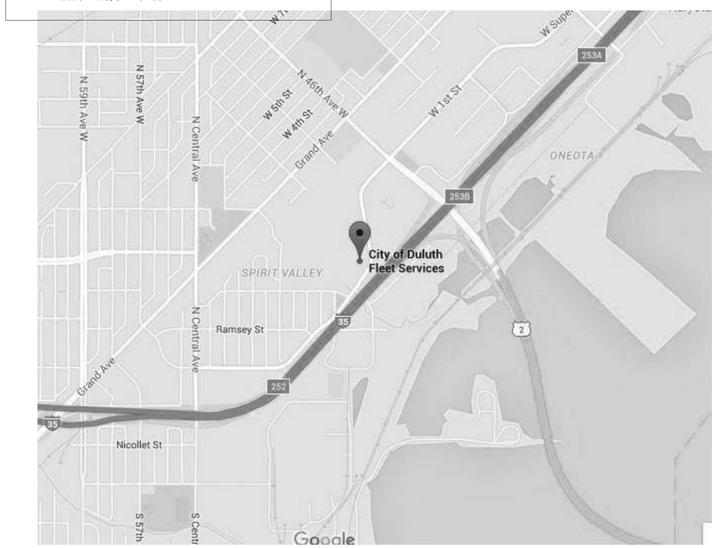
* REFER TO PIPING DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
* CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.
* ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.
* THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.

MECHANICAL SHEET INDEX

ME0	MECHANICAL AND ELECTRICAL TITLE SHEET
ME1	MECHANICAL SPECIFICATIONS
ME2	HVAC AND ELECTRICAL PLAN
ME3	MECHANICAL AND ELECTRICAL SCHEDULES, DETAILS AND ELECTRICAL SPEC

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.



1 ME0 SITE PLAN
NO SCALE

THE CITY OF DULUTH MINNESOTA

Gausman & Moore
Mechanical and Electrical Engineers
501 Lake Avenue South
Office Suite 310
Duluth, Minnesota 55802
(218) 722-2555 Fax (218) 722-9306
Project No. 84319

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 on the State of Minnesota.

Paul D. Haslach
Date: 10/13/14 Reg No: 24488

No.	Description	Date

CITY OF DULUTH

FLEET SERVICES CENTER

4825 MIKE COLALILLO DRIVE

MECHANICAL AND ELECTRICAL TITLE SHEET

Project Number	84319
Date	04/29/2016
Drawn By	K. DAVIS
Checked By	J. HOMOLA
	ME0
Scale	1/8" = 1'-0"

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DIVISIONS 22, 23, - MECHANICAL SPECIFICATIONS

SECTION 220500, 230500 - GENERAL PROVISIONS

A. GENERAL CONDITIONS

1. THE GENERAL CONDITIONS, SPECIAL CONDITIONS, SUPPLEMENTARY CONDITIONS, BUILDING OWNER'S MECHANICAL SPECIFICATIONS AND "GENERAL CONDITIONS OF THE CONTRACT," CURRENT EDITION, ESTABLISHED IN STANDARD FORM BY THE AMERICAN INSTITUTE OF ARCHITECTS SHALL APPLY TO ALL WORK ON THIS PROJECT EXCEPT AS MODIFIED BELOW. THIS CONTRACTOR SHALL BE FAMILIAR WITH THESE PROVISIONS AND ADHERE TO THESE REQUIREMENTS. THIS CONTRACTOR SHALL COORDINATE MECHANICAL WORK WITH ALL OTHER TRADES, AND BUILDING OWNER PRIOR TO INSTALLATION.

B. RELATED DOCUMENTS

1. THIS CONTRACTOR SHALL REFER TO THE STRUCTURAL PLANS AND SPECIFICATIONS. SUCH PLANS AND SPECIFICATIONS ARE A PART OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS SURROUNDING THE WORK.

C. PLANS AND SPECIFICATIONS

1. THROUGHOUT THE COURSE OF THE WORK, THE BUILDING OWNER MAY REQUEST MINOR CHANGES AND ADJUSTMENTS TO THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL MAKE SUCH ADJUSTMENTS WITHOUT ADDITIONAL COST TO THE BUILDING OWNER. WHERE SUCH ADJUSTMENTS ARE NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE SYSTEMS, AND WITHIN THE INTENT OF THE CONTRACT DOCUMENTS.

2. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO FORM A GUIDE FOR A COMPLETE INSTALLATION. EVERYTHING NECESSARY FOR THE COMPLETION AND SUCCESSFUL OPERATION OF THE WORK, WHETHER OR NOT DEFINITELY SPECIFIED OR INDICATED ON THE DRAWINGS SHALL BE PROVIDED AS IF SO SPECIFIED OR INDICATED WITHOUT ADDITIONAL COST TO THE BUILDING OWNER. THE MECHANICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION.

3.

4. NOTWITHSTANDING ANY OTHER PROVISIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR BEARS ULTIMATE RESPONSIBILITY FOR COMPLIANCE OF THE INSTALLATION WITH THE REQUIREMENTS OF THE BUILDING OWNER AND OF THE LOCAL AUTHORITY HAVING JURISDICTION.

D. MODIFICATIONS

1. IF ANY ERRORS, DISCREPANCIES OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF SUCH ERROR OR OMISSION. IN THE EVENT OF THE CONTRACTOR FAILING TO GIVE SUCH NOTICE BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK, THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS, DISCREPANCIES OR OMISSIONS AND THE ASSOCIATED COST OF RECTIFYING.

E. CODE COMPLIANCE

1. THIS CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ALL STATE AND LOCAL CODES REGULATING THIS WORK. HOWEVER, THIS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLYING WITH ANY REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS THAT MAY BE IN EXCESS OF ANY GOVERNING CODES.

F. PERMITS, FEES, LICENSES

1. THIS CONTRACTOR SHALL PAY ALL FEES AND RELATED CHARGES FOR PERMITS, LICENSES, ETC., REQUIRED FOR INSTALLATION OF THE MECHANICAL SYSTEM.

G. WARRANTY

1. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER AND SHALL BE IN GOOD AND USABLE CONDITION AT THE DATE OF COMPLETION. THIS CONTRACTOR SHALL REQUIRE ANY PERSONS PERFORMING ANY SUCH WORK TO GUARANTEE THE SAME TO BE FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND MATERIALS FOR ONE (1) YEAR FROM THE DATE OF COMPLETION THEREOF. THIS CONTRACTOR SHALL ALSO REQUIRE ANY SUCH PERSONS TO BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR WITHOUT ANY ADDITIONAL COST TO ANY AND ALL WORK DONE OR FURNISHED BY OR THROUGH SUCH PERSONS WHICH SHALL BECOME DEFECTIVE WITHIN ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION OF WORK. THE CORRECTION OF SUCH WORK SHALL INCLUDE WITHOUT ADDITIONAL COST ALL EXPENSES AND DAMAGES IN CONNECTION WITH SUCH REMOVAL, REPLACEMENT OR REPAIR OF ANY PART OF THE WORK WHICH MAY BE DAMAGED OR DISTURBED THEREBY.

H. FIELD QUALITY CONTROL

1. UPON COMPLETION OF INSTALLATION OF MECHANICAL EQUIPMENT, START-UP AND OPERATE EQUIPMENT TO DEMONSTRATE CAPABILITY AND COMPLIANCE WITH REQUIREMENTS.

2. REMOVE MALFUNCTIONING EQUIPMENT, REPLACE WITH NEW EQUIPMENT AND RETEST.

3. REMOVE MALFUNCTIONING HVAC UNITS, REPLACE WITH NEW HVAC UNITS AND RETEST.

SECTION 230500 - BASIC MATERIALS AND METHODS

A. MECHANICAL RELATED WORK

1. MATERIALS AND EQUIPMENT DESIGNED TO BE NEW SHALL BE FREE OF DEFECTS.

2. MATERIALS AND EQUIPMENT DESIGNED TO BE REUSED SHALL BE VERIFIED BY THIS CONTRACTOR TO BE IN GOOD WORKING CONDITION. IF MATERIALS AND EQUIPMENT DO NOT MEET THE DESIGN INTENT, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF SAID MATERIALS AND EQUIPMENT.

3. DESIGN AND INSTALL PIPING AND DUCTWORK TO PRESENT A NEAT ORDERLY APPEARANCE. ROUTE PARALLEL WITH BUILDING WALLS AND CONSTRUCTION.

4. PROVIDE VIBRATION ISOLATION AND FLEXIBLE CONNECTIONS ON ALL MOVING EQUIPMENT.

5. PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR INSTALLATION OF NEW SYSTEMS AND EQUIPMENT.

B. EQUIPMENT ORDER

1. THE CONTRACTOR SHALL ORDER ALL EQUIPMENT REQUIRED WITHIN TEN DAYS UPON RECEIPT OF CONTRACT IN ORDER TO ENSURE TIMELY RECEIPT OF MATERIAL. SUBSTITUTIONS AFTER THIS DATE DUE TO LACK OF PLACEMENT OF ORDER WILL NOT BE APPROVED.

C. HANGERS, SUPPORTS, AND SLEEVES

1. SUPPORT PIPING ADEQUATELY FROM SLABS OR OTHER STRUCTURAL MEMBERS AT INTERVALS IN COMPLIANCE WITH INDUSTRY STANDARDS AND AUTHORITY HAVING JURISDICTION.

2. ALL HORIZONTAL PIPING PENETRATING WALLS SHALL BE FITTED WITH SLEEVES MADE OF STANDARD STEEL PIPE 1 INCH LARGER THAN THE PIPE AND INSULATION DIAMETER. SLEEVES SHALL BE CUT FLUSH WITH THE WALL ON BOTH SIDES. SEAL THE SLEEVE VOIDS WITH NONSHRINKING SEALANT. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED IN COMPLIANCE WITH UL.

3. PROVIDE ESCUTCHEON PLATES ON ALL EXPOSED PIPE PENETRATIONS THROUGH WALLS.

D. EQUIPMENT IDENTIFICATION

1. IDENTIFY PIPING, DUCTWORK AND EQUIPMENT IN COMPLIANCE WITH INDUSTRY STANDARDS.

SECTION 230700 - INSULATION

A. MECHANICAL INSULATION

1. INSULATE OUTSIDE AIR AND EXHAUST AIR DUCTWORK WITHIN CONDITIONED SPACE WITH FIBERGLASS BLANKET MINIMUM 1-1/2 INCH THICK, 1 POUND PER CUBIC FOOT DENSITY, VAPOR BARRIER JACKET WITH 2 INCH TAB, GLASS REINFORCED LAMINATED ALUMINUM FOIL AND KRAFT PAPER JACKET. INSULATION THICKNESS SHALL BE IN COMPLIANCE WITH APPLICABLE CODE REQUIREMENTS.

2. INSULATE OUTSIDE AIR AND EXHAUST AIR DUCTWORK LOCATED OUTSIDE OF THE BUILDING WITH RIGID FIBERGLASS MINIMUM 3 INCH THICK, 3 POUND PER CUBIC FOOT DENSITY, ALL SERVICE PAPER BACKED FOIL VAPOR BARRIER. PROTECT ALL DUCTWORK OUTSIDE OF THE BUILDING WITH PVC OR METAL JACKETING COVER. APPLY OVER VAPOR BARRIER. EXTEND DUCTWORK INSULATION AND JACKETING, WITHOUT INTERRUPTION, THROUGH BUILDING ENVELOPE.

SECTION 222123,223000 - PLUMBING PIPING AND EQUIPMENT

A. COMPRESSED AIR SYSTEMS

1. PROVIDE TAP AND TEE OF EXISTING COMPRESSED AIR SYSTEM AS SHOWN ON THE DRAWINGS.

2. COMPRESSED AIR PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE.

3. SHUT -OFF VALVES SHALL BE NIBCO, OR EQUAL, 600 PSI WOG, BRONZE CAST BODY, CHROME PLATED FULL PORT BALL, WITH HANDLE, TEFLON SEAT.

4. AIR FILTER AND PRESSURE REGULATOR SHALL BE OMEGA, OR EQUAL. REFER TO MANUFACTURERS INSTALLATION RECOMMENDATIONS AND FLOW REQUIREMENTS.

B. NATURAL GAS PIPING SYSTEMS

1. PROVIDE A COMPLETE NATURAL GAS DISTRIBUTION SYSTEM. INCLUDING PRESSURE REGULATORS, PIPING, VALVES AND ACCESSORIES. PROVIDE GAS SHUT-OFF VALVE UPSTREAM OF EACH REGULATOR. SUPPORT GAS PIPING.

2. UPSIZED GAS METER BY LOCAL UTILITY ON GRADE, UNLESS NOTED OTHERWISE.

3. EXTERIOR ABOVE GRADE GAS PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL.

4. PRESSURE REGULATING VALVES SHALL BE SINGLE STAGE, STEEL JACKETED, CORROSION RESISTANT GAS PRESSURE REGULATORS; WITH ATMOSPHERIC VENT, ELEVATION COMPENSATOR; WITH THREADED ENDS FOR 2 INCH AND SMALLER FOR INLET AND OUTLET GAS PRESSURE, SPECIFIC GRAVITY, AND VOLUME FLOW INDICATED.

5. PRESSURE REGULATOR VENTS SHALL BE FACTORY- OR FIELD-INSTALLED, CORROSION-RESISTANT SCREEN IN OPENING IF NOT CONNECTED TO VENT PIPING.

6. GAS SHUT-OFF VALVES SHALL BE APOLLO, OR EQUAL, 150 PSI NON-SHOCK WOG, IRON BODY, BRONZE MOUNTED, STRAIGHTWAY COCK, SQUARE HEAD WITH SCREWED ENDS.

SECTION 233101 - HVAC DUCTS AND CASING

A. METAL DUCTWORK

1. THE AIR DISTRIBUTION SYSTEM SHALL BE FABRICATED AS RECOMMENDED IN THE LATEST EDITION OF THE SMACNA LOW VELOCITY DUCT MANUAL AND INSTALLED WHERE SHOWN ON PLAN. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL REQUIRED DAMPERS, TRANSITIONS AND CONNECTIONS TO AIR TERMINALS NECESSARY FOR A COMPLETE OPERATING SYSTEM.

2. ALL DUCTWORK SHALL BE GALVANIZED STEEL UNLESS OTHERWISE SPECIFIED, WITH GAUGES AND REINFORCING IN ACCORDANCE WITH SMACNA. CONSTRUCT AND SUPPORT NEW DUCTWORK IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR UP TO 2-INCH WG. SECURELY ATTACH ALL DUCTWORK TO THE BUILDING CONSTRUCTION IN A MANNER TO BE FREE FROM VIBRATION AND SWAYING UNDER OPERATING CONDITIONS. PROVIDE OFFSETS, ELBOWS AND TRANSITIONS IN DUCTWORK AS REQUIRED FOR COMPLETE INSTALLATION. SQUARE TURN ELBOWS SHALL BE FITTED WITH TURNING VANES. VANES SHALL BE DOUBLE THICKNESS, FASTENED TO RUNNERS AND ADEQUATELY BRACED.

3. SEAL JOINTS IN ALL SUPPLY AIR DUCTS WITH 3M INDUSTRIAL SEALANT 800, OR EQUAL, IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS TO PRODUCE A LEAKAGE RATE OF NOT MORE THAN 5 PERCENT.

SECTION 233300 - AIR DUCT ACCESSORIES

4. MAKE DUCT CONNECTIONS TO ALL EQUIPMENT, WITH A MINIMUM 4 INCH FLEXIBLE CONNECTION BETWEEN THE EQUIPMENT AND DUCT.

5. MANUAL BALANCING DAMPERS: FACTORY FABRICATED, WITH REQUIRED HARDWARE AND ACCESSORIES. STIFFEN DAMPER BLADES FOR STABILITY. INCLUDE LOCKING DEVICE TO HOLD SINGLE-BLADE DAMPERS IN A FIXED POSITION WITHOUT VIBRATION. CLOSE DUCT PENETRATIONS FOR DAMPER COMPONENTS TO SEAL DUCT CONSISTENT WITH PRESSURE CLASS.

A) PRESSURE CLASSES OF 3-INCH WG OR HIGHER: END BEARINGS OR OTHER SEALS FOR DUCTS WITH AXLES FULL LENGTH OF DAMPER BLADES AND BEARINGS AT BOTH ENDS OF OPERATING SHAFT.

B) STANDARD BALANCING DAMPERS: MULTIPLE OR SINGLE BLADE, PARALLEL OR OPPOSED BLADE DESIGN, STANDARD LEAKAGE RATING, AND SUITABLE FOR HORIZONTAL OR VERTICAL APPLICATIONS.

1) STEEL FRAMES: HAT-SHAPED, GALVANIZED SHEET STEEL CHANNELS, MINIMUM OF 0.064 INCH THICK, WITH MITERED AND WELDED CORNERS; FRAMES WITH FLANGES WHERE INDICATED FOR ATTACHING TO WALLS AND FLANGELESS FRAMES WHERE INDICATED FOR INSTALLING IN DUCTS.

2) ROLL-FORMED STEEL BLADES: 0.064 INCH THICK, GALVANIZED SHEET STEEL.

3) BLADE AXLES: GALVANIZED STEEL.

4) BEARINGS: OIL-IMPREGNATED BRONZE, MOLDED SYNTHETIC, OR STAINLESS-STEEL SLEEVE.

5) TIE BARS AND BRACKETS: GALVANIZED STEEL.

C) JACKSHAFT: 1 INCH DIAMETER, GALVANIZED STEEL PIPE ROTATING WITHIN PIPE BEARING ASSEMBLY MOUNTED ON SUPPORTS AT EACH MULLION AND AT EACH END OF MULTIPLE DAMPER ASSEMBLIES.

1) LENGTH AND NUMBER OF MOUNTINGS: APPROPRIATE TO CONNECT LINKAGE OF EACH DAMPER IN MULTIPLE DAMPER ASSEMBLY.

D) DAMPER HARDWARE: ZINC PLATED, DIE CAST CORE WITH DIAL AND HANDLE MADE OF 3/32 INCH THICK ZINC PLATED STEEL, AND A 3/4 INCH HEXAGON LOCKING NUT. INCLUDE CENTER HOLE TO SUIT DAMPER OPERATING ROD SIZE. INCLUDE ELEVATED PLATFORM FOR INSULATED DUCT MOUNTING.

B. MOTORIZED CONTROL DAMPER

1. GREENHECK MODEL NO. VCD-40, OR EQUAL, OPPOSED BLADES FOR MODULATING CONTROL (ADJUSTABLE). CONSTRUCT BLADES OF HEAVY GAUGE EXTRUDED ALUMINUM, AIR FOIL SHAPE WITH EXTRUDED SILICONE RUBBER BLADE SEALS, FLEXIBLE METAL COMPRESSION TYPE JAMB SEALS, SIDE LINKAGE OUT OF AIRSTREAM (CONCEALED IN FRAME), PROVIDE HEAVY DUTY MOLDED SELF-LUBRICATING NYLON BEARINGS, 1/2 INCH DIAMETER STEEL AXLES. CONSTRUCT FRAME OF 4 INCH X 1 INCH X 1/8 INCH ALUMINUM HAT CHANNEL FOR FACE AREAS 25 SQ. FT. AND UNDER.

2. EXAMINE AREAS AND CONDITIONS UNDER WHICH DUCT ACCESSORY WILL BE INSTALLED. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3. INSTALL CONTROL DAMPER IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, WITH APPLICABLE PORTIONS OF DETAILS OF CONSTRUCTION AS SHOWN IN SMACNA STANDARDS, AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS SERVE INTENDED FUNCTION.

4. OPERATE INSTALLED CONTROL DAMPER TO DEMONSTRATE COMPLIANCE WITH REQUIREMENTS. TEST FOR AIR LEAKAGE WHILE SYSTEM IS OPERATING. REPAIR OR REPLACE FAULTY EQUIPMENT, AS REQUIRED TO OBTAIN PROPER OPERATION AND LEAKPROOF PERFORMANCE.

C. DIFFUSERS, REGISTERS AND GRILLES

1. DIFFUSERS, REGISTERS AND GRILLES WHERE SHOWN ON DRAWINGS AND AS SCHEDULED SHALL BE TITUS, OR EQUAL.

SECTION 233400 - HVAC FANS

D. SOURCE CAPTURE AIR CLEANER (FIXED POSITION) - SCAC-1

1. SUSPENDED SOURCE CAPTURE AIR CLEANER SHALL BE MICRO AIR MODEL RP4 AS SCHEDULED OR EQUAL. CABINET SHALL BE CONSTRUCTED OF 12 GAUGE WELDED GALVANIZED STEEL. PROVIDE LOW PROFILE SHORT LEG KIT WITH DUST TRAY AND ULTRA-LIFE NANOFIBER FILTER CARTRIDGES. UNIT SHALL COME EQUIPPED WITH MAGNAHELIC GAUGE.

2. SOURCE CAPTURE ARMS SHALL BE MICRO-AIR SCA812 (12FT IN LENGTH) WELDING ARMS ATTACHED TO MICRO-AIR SCBA814 (14FT IN LENGTH) BOOM ARM.

E. SOURCE CAPTURE AIR CLEANER (REMOTE) - SCAC-2

1. SOURCE CAPTURE AIR CLEANER SHALL BE MICRO AIR MODEL TM AS SCHEDULED OR EQUAL. CABINET SHALL BE CONSTRUCTED OF 16 GAUGE WELDED GALVANIZED STEEL. PROVIDE LOW PROFILE SHORT LEG KIT WITH DUST TRAY AND HIGH EFFICIENCY FILTER CARTRIDGES. UNIT SHALL COME EQUIPPED WITH MAGNAHELIC GAUGE AND SELF-CLEANING REVERSE AUTO-PULSE JET BACKFLUSH. 120V, SINGLE PHASE.

2. SOURCE CAPTURE ARM SHALL BE PROVIDED WITH HOOD. ARM SHALL BE 8" X 9FT.

F. HIGH TEMPERATURE EXHAUST HOSE

1. THE EXHAUST HOSE SHALL BE CAR-MON HTC OR EQUAL. TWO-PLY, TRIPLE OVERLAP CONSTRUCTION, THERMAL BONDED AND CURED FOR HEAT RESISTANCE TO 1000° F INTERNAL OPERATING TEMPERATURE. THE HOSE SHALL HAVE AN EXTERIOR STEEL SPRING WIRE REINFORCING SPIRAL ENCASED TO PREVENT THE COLLAPSING OF THE HOSE AND TO HELP RETAIN ITS SHAPE. OUTER PLY SHALL BE PROCESS SATURATED NOMEX FABRIC FOR ABRASION RESISTANCE, AND INNER PLY SHALL BE SILICONE COATED GLASS FABRIC. HOSE SHALL BE CAR-MON TYPE HTC IN LENGTH AND DIAMETER AS SHOWN ON THE DRAWINGS. EXHAUST ADAPTERS, GUIDE RINGS, FLANGES, ETC. IF REQUIRED, SHALL BE ATTACHED TO THE HOSE AT THE FACTORY TO MAINTAIN THE INTEGRITY OF THE ASSEMBLY. FIELD ASSEMBLY IS NOT ACCEPTABLE.

G. VEHICLE EXHAUST FAN

1. THE FAN SHALL BE CAR-MON SERIES BXI AS SCHEDULED OR EQUAL. FAN WHEEL SHALL BE RADIAL BLADE TYPE WITH SINGLE THICKNESS BLADES AND BE STATICALLY AND DYNAMICALLY BALANCED. THE FAN HOUSING SHALL BE FABRICATED OF 10 GAUGE STEEL AND BE OF ALL WELDED CONSTRUCTION. THE INLET SHALL BE ASSEMBLED TO THE FAN HOUSING USING HEX HEAD GRIP TYPE FLANGE NUTS BOLTED TO THREADED STUDS WELDED TO THE HOUSING. A ROLLED ANGLE MOUNTING FLANGE SHALL BE WELDED TO THE INLET RING. ALL SURFACES OF THE FAN SHALL BE PAINTED WITH A POLYESTER POWDER COATING. THE FAN MOTOR SHALL BE AN INDUSTRIAL GRADE C-FACE TYPE, BOLTED DIRECTLY TO THE HOUSING, WITH HORSEPOWER AND ELECTRICAL CHARACTERISTICS AS SCHEDULED.

H. HEAT RECOVERY UNIT

MICROPROCESSOR C ONTROLLER: CONTROLLER SHALL BE PROVIDED WITH REQUIRED SENSORS AND PROGRAMMING FOR ROOFTOP UNIT. CONTROLLER SHALL BE FACTORY PROGRAMMED, MOUNTED AND TESTED. CONTROLLER SHALL HAVE A LCD READOUT FOR CHANGING SET POINTS AND MONITORING UNIT OPERATION.

UNIT START COMMAND:
FACTORY MOUNTED AND WIRED OUTDOOR AIR AND RECIRCULATED AIR DAMPER ACTUATORS ARE POWERED.
EXHAUST FAN STARTS AFTER A 10 SECOND (ADJUSTABLE) DELAY.
SUPPLY FAN STARTS 5 SECONDS (ADJUSTABLE) AFTER EXHAUST FAN.
TEMPERING OPTIONS AND ENERGY WHEEL OPTION TO FUNCTION AS DESCRIBED BELOW.

UNIT STOP COMMAND (OR DE-ENERGIZED):
SUPPLY FAN, EXHAUST FAN, ENERGY WHEEL AND TEMPERING OPTIONS DE-ENERGIZED.
OUTDOOR AIR DAMPER ACTUATOR IS SPRING RETURN CLOSE, AND THE RECIRCULATED AIR DAMPER ACTUATOR IS SPRING OPEN.

OCCUPIED/UNOCCUPIED MODES: SHALL BE BASED ON A 7-DAY TIME CLOCK INTERNAL TO THE CONTROLLER. THE SCHEDULE SHALL BE SET BY THE END USER. WHEN A USER INITIATES AN OVERRIDE INPUT, THE DDC WOULD SWITCH FROM UNOCCUPIED TO OCCUPIED MODE. THE DDC WILL RETURN TO THE SCHEDULED OCCUPIED/UNOCCUPIED MODE AFTER THE OVERRIDE TIME HAS EXPIRED (60 MIN, ADJUSTABLE). IF INTERNAL TIME CLOCK IS DISABLED, A REMOTE CONTACT OR A BMS CAN CONTROL THE OCCUPIED/UNOCCUPIED MODE.

OCCUPIED MODE:
1. SUPPLY FAN ON.
2. EXHAUST FAN ON.
3. ENERGY WHEEL CONTROL PER BELOW.
4. HEATING PER BELOW.
5. COOLING PER BELOW.
6. DAMPER CONTROL PER BELOW.

UNOCCUPIED MODE (UNIT OFF): DEFAULT SETTING WHEN THERE IS NO RECIRCULATION DAMPER OR ROOM TEMPERATURE SENSOR.
1. SUPPLY FAN OFF
2. EXHAUST FAN OFF
3. TEMPERING OFF
4. OUTDOOR AIR DAMPER CLOSED
5. RETURN DAMPER CLOSED

SUPPLY BLOWER SEQUENCE: THE SUPPLY BLOWER IS PROVIDED WITH A FACTORY MOUNTED VARIABLE FREQUENCY DRIVE. THE SUPPLY BLOWER SPEED CAN BE CONTROLLED WITH THE FOLLOWING SEQUENCES.

CONSTANT VOLUME WITH VFD (ON/OFF): THE SUPPLY BLOWER IS PROVIDED WITH A FACTORY MOUNTED VFD, AND IS INTENDED TO OPERATE AT A CONSTANT SPEED (ADJUSTABLE SET POINT IN CONTROLLER) DURING OPERATION. THIS SPEED NEEDS TO BE SET DURING TEST AND BALANCE OF THE UNIT.

EXHAUST BLOWER SEQUENCE : THE EXHAUST BLOWER IS PROVIDED WITH A FACTORY MOUNTED VARIABLE FREQUENCY DRIVE. THE EXHAUST BLOWER SPEED CAN BE CONTROLLED WITH THE FOLLOWING SEQUENCES.

BUILDING PRESSURE BY FACTORY: A SENSOR WILL BE USED TO DETECT THE DIFFERENCE IN STATIC PRESSURE FROM OUTSIDE OF THE BUILDING AND INTERIOR SPACE, THIS IS USED TO VARY THE SPEED OF THE EXHAUST FAN TO MEET THE DESIRED BUILDING PRESSURE SET POINT.

HEATING SEQUENCE: THE HEATING IS CONTROLLED TO MAINTAIN THE SUPPLY TEMPERATURE SET POINT. THE HEATING WILL BE LOCKED OUT WHEN THE OUTSIDE AIR IS > 70 F + 2 F HYSTERESIS, ADJUSTABLE.
INDIRECT GAS FURNACE: DDC WILL OPERATE THE INDIRECT GAS FURNACE TO MAINTAIN THE SUPPLY TEMPERATURE SET POINT (ADJ.).

BUILDING FREEZE PROTECTION: IF THE SUPPLY AIR TEMPERATURE DROPS BELOW 35 F (ADJUSTABLE), THE DDC
DE-ENERGIZE THE UNIT AND ACTIVATE THE ALARM OUTPUT AFTER A PRESET TIME DELAY.

OPTIONAL FROST CONTROL: THE DDC CONTROLLER WILL OUTPUT A SIGNAL WHEN FROSTING IS OCCURRING W
DETERMINED BY A TEMPERATURE SET POINT (OA<5F - 2F HYSTERESIS, ADJUSTABLE) AND A PRESSURE SETPOINT.

MODULATE WHEEL: WHEN FROSTING IS OCCURRING, THE VFD MODULATES THE WHEEL DOWN TO A SLOW ROTAT
SPEED TO DEFROST WHEEL. ONCE THE PRESSURE DROP DECREASES BELOW THE SET POINT, FROST MODE IS DE-ENERGIZED AND THE WHEEL RETURNS TO FULL SPEED.

ALARMS INDICATION: DDC SHALL HAVE ONE DIGITAL OUTPUT FOR REMOTE INDICATION OF AN ALARM CONDITIO

DIRTY FILTER ALARM: IF THE OUTSIDE AIR OR RETURN AIR FILTER DIFFERENTIAL PRESSURE RISES ABOVE THE
SET POINT (ADJ.), THE DIFFERENTIAL PRESSURE SWITCH SHALL SIGNAL THE DDC TO ACTIVATE AN ALARM.
DIRTY WHEEL ALARM: DDC MONITORS PRESSURE ACROSS THE WHEEL AND SENDS AN ALARM IN THE CASE OF
INCREASED PRESSURE DROP.

SUPPLY AND EXHAUST AIR ALARM: DDC MONITORS PROVING SWITCH ON EACH BLOWER AND DISPLAYS AN ALARM IN CASE OF BLOWER FAILURE.

TEMPERATURE SENSOR ALARM: DDC WILL SEND AN ALARM IN THE CASE OF A FAILED AIR TEMPERATURE SENSOR.

PRESSURE SENSOR ALARM: DDC WILL SEND AN ALARM IN THE CASE OF A FAILED PRESSURE SENSOR.

BMS INTERFACING: A BMS SERIAL CARD IS PROVIDED WITH THE CONTROLLER FOR FIELD INTERFACING WITH A BUILDING MANAGEMENT SYSTEM. EACH CARD IS SENT OUT WITH THE DEFAULT PARAMETERS, AND THE CONTROLS CONTRACTOR MUST CHANGE THE APPROPRIATE ADDRESSES TO MATCH THE BMS SETTINGS. THE BMS SERIAL CARD SHALL BE BACNET AND INTERFACE WITH CITY OF DULUTH TRIDIUM N4 FRAMEWORK.

PROVIDE DDC REMOTE INTERFACE: AN INTERFACE PANEL THAT CAN BE WIRED TO THE MAIN CONTROLLER FOR REMOTE ADJUSTMENTS OF SET POINTS.

SECTION 230593 - TESTING, ADJUSTING AND BALANCING

A. TESTING, ADJUSTING AND BALANCING

1. TESTING AND BALANCING OF ALL SUPPLY AIR, RETURN AIR, VENTILATION AIR, AND EXHAUST AIR SYSTEMS TO BE PROVIDED BY AN INDEPENDENT NEBB OR AABC CERTIFIED COMPANY. BALANCE AIR SYSTEMS TO THE INDICATED DESIGN AIR FLOWS AT EACH OUTLET AND AS SCHEDULED ON EQUIPMENT.

2. SUBMIT A MINIMUM OF TWO (2) CERTIFIED COPIES OF A COMPLETE AIR BALANCE TEST REPORT TO THE OWNER FOR REVIEW AND COMMENT. REPORTS MUST BE SUBMITTED PRIOR TO RECEIVING FINAL PAYMENT.

3. THESE ARE TO BE "CERTIFIED" BALANCE REPORTS AND ARE TO INCLUDE THE SPECIFICATIONS OF ALL EQUIPMENT INSTALLED ON THE PROJECT AS WELL AS THE RESULTS OF THE BALANCING. ANY NON-CERTIFIED OR INCOMPLETE REPORTS WILL BE REJECTED.

4. COORDINATE TESTING, ADJUSTING AND BALANCING WITH THE BUILDING OWNER'S FIELD REPRESENTATIVE.

SECTION 230900 - INSTRUMENTATION AND CONTROLS FOR HVAC

B. CARBON MONOXIDE AND NITROGEN DIOXIDE CONTROL SYSTEM

1. PROVIDE COMPLETE CONTROL SYSTEM WITH DUAL SENSOR DETECTION. SYSTEM SHALL ENABLE AND TURN ON FANS AS INDICATED ON DRAWINGS
2. NITROGEN DIOXIDE DETECTOR: NITROGEN DIOXIDE GAS SENSOR. BASED ON ARMSTRONG AMC-400 SERIES.
3. CARBON MONOXIDE DETECTOR: CARBON MONOXIDE GAS SENSOR. ARMSTRONG AMC-400 SERIES.
4. DIGITAL MONITOR: GAS SENSOR. ARMSTRONG AMC-1DBX SERIES

B. SEQUENCE OF OPERATION:

CEILING FAN (CF-1 AND CF-2)

1. THE CEILING FAN VFD WILL BE CONNECTED TO A WALL MOUNTED WALL CONTROLLER WITH ILLUMINATED PUSH BUTTON OVERRIDE SWITCH WHICH FUNCTIONS TO TOGGLE THE CEILING FAN BETWEEN MANUAL AND OPTIONAL AUTOMATIC CONTROL MODES. ALSO PRESENT ON THE WALL CONTROLLER SHALL BE A SELECTOR SWITCH RANGING FROM 0 - 100% FAN SPEED FOR MANUAL MODE OPERATION.

SOURCE CAPTURE AIR CLEANER (SCAC-1 AND SCAC-2)

1. THE SCAC EXHAUST FAN WILL OPERATE ACCORDING TO POSITION OF UNIT MOUNTED ON/OFF SWITCH.

HEAT RECOVERY UNIT (HRU-1, HRU-2, HRU-3)

1. HEAT RECOVERY UNITS ARE DISABLED DURING UNOCCUPIED MODE. MOTORIZED DAMPERS CLOSE.
2. INTERNAL TIMECLOCK SHALL PROVIDE CALL FOR OUTSIDE AIR DURING OCCUPIED MODE. DURING OCCUPIED MODE, THE SUPPLY FAN, EXHAUST FAN, AND ENERGY WHEEL SHALL BE ENERGIZED AND MOTORIZED DAMPERS OPEN.
3. SUMMER OPERATION: OUTDOOR AIR IS PRE-CONDITIONED BY THE TRANSFER OF ENERGY FROM THE COOLER, DRIER EXHAUST AIR VIA ENERGY RECOVERY WHEEL. ENERGY RECOVERY WHEEL SHALL BE ENABLED WHEN THE OUTDOOR AIR TEMPERATURE IS GREATER THAN 75°F(ADJUSTABLE). HEATING WILL BE LOCKED OUT WHEN THE OUTSIDE AIR IS ABOVE HEATING SUPPLY AIR SETPOINT.
4. WINTER OPERATION: OUTDOOR AIR IS PRE-CONDITIONED BY THE TRANSFER OF ENERGY FROM THE WARMER, HUMID EXHAUST AIR VIA ENERGY RECOVERY WHEEL. ENERGY RECOVERY WHEEL SHALL BE ENABLED WHEN THE OUTDOOR AIR TEMPERATURE IS LESS THAN 60°F (ADJUSTABLE). MODULATE INDIRECT GAS FURNACE TO MAINTAIN SUPPLY TEMPERATURE SETPOINT (ADJUSTABLE).
5. WHEN FROSTING IS OCCURRING, VFD SHALL SLOW HEAT RECOVERY WHEEL TO ALLOW DEFROSTING TO OCCUR. ONCE PRESSURE DROP DECREASES BELOW PRESSURE SWITCH SET POINT, WHEEL SHALL RETURN TO FULL SPEED.
6. DIRTY FILTER ALARM SHALL ACTIVATE WHEN DIFFERENTIAL PRESSURE SWITCH RISES ABOVE DIFFERENTIAL SWITCH PRESSURE SETPOINT.

EMERGENCY EXHAUST (EXISTING EXHAUST FANS, EF-5, EF-8)

1. EF-5 AND EF-8 ARE ENABLED WHEN ANY ONE OF THE CO OR NO2 SENSORS EXCEED PPM LIMIT. (CO 35 PPM, NO2: 1 PPM) (ADJUSTABLE)
2. EF-5 AND EF-8 SHALL BE INTERLOCKED WITH EXISTING OA DAMPERS. OA DAMPERS SHALL FULLY OPEN UPON OPERATION OF EMERGENCY EXHAUST.
3. FANS ARE DISABLED WHEN CO AND NO2 LEVELS DROP BELOW LOW ALARM SETPOINTS.

VEHICLE EXHAUST FAN (EF-9)

1. EXHAUST FAN WILL OPERATE ACCORDING TO POSITION OF WALL MOUNTED ON/OFF SWITCH.

END OF DIVISIONS 22 AND 23

THE CITY OF DULUTH MINNESOTA

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Project No. 84319

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 on the State of Minnesota.

Paul D. Haslach
Date: 06/24/2016 Reg No: 24488

No.	Description	Date

CITY OF DULUTH

FLEET SERVICES CENTER

4825 MIKE COLALILLO DRIVE

MECHANICAL SPECIFICATIONS

Project Number	84319
Date	04/29/2016
Drawn By	K. DAVIS
Checked By	J. HOMOLA

ME1

Scale	1/8" = 1'-0"

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ELECTRICAL KEYNOTES

E1 EXISTING GE 600A, 480/277V, FUSIBLE SWITCH MAIN DISTRIBUTION BOARD. PROVIDE TWIN 200A FUSIBLE SWITCHES AND FUSES, TYPE TO MATCH EXISTING, IN EXISTING SPACE FOR NEW PANEL 'H3' AND 'SPARE'.

E2 PROVIDE NEW 200A, 480/277V, MLO PANELBOARD TO FEED NEW MECHANICAL EQUIPMENT. REMOVE/RELOCATE EXISTING LOCKERS TO FACILITATE INSTALLATION. COORDINATE WITH OWNER.

E3 PROVIDE GFI, WP CONVENIENCE RECEPTACLE MOUNTED ON UNIT. CONNECT TO NEAREST 120V, 20A BRANCH CIRCUIT.

E4 PROVIDE CONNECTIONS TO SCAC-1 AND SCAC-2 AS INDICATED. INCLUDE THIS WORK AS AN ADD ALTERNATE, REFER TO BID FORM FOR ADDITIONAL INFORMATION.

E5 PROVIDE CONNECTIONS TO CF-1 AND CF-2 AS INDICATED. INCLUDE THIS WORK AS AN ADD ALTERNATE, REFER TO BID FORM FOR ADDITIONAL INFORMATION.

E6 PROVIDE 120V, 1P DEDICATED CIRCUIT AND RECEPTACLE FOR SCAC-2. CONNECT TO NEAREST 120/208V PANEL, PROVIDE CIRCUIT BREAKER AS REQUIRED.

E7 PROVIDE ELECTRICAL CONNECTION TO LOCAL ON/OFF SWITCH FOR EXISTING EXHAUST FAN EF-3.

E8 DISCONNECT CONDUCTORS AND CAP TO FACILITATE DE-COMMISSIONING OF EXHAUST FAN.

MECHANICAL KEYNOTES

1 HOLD DUCTWORK TIGHT TO EXTERIOR WALL. SUPPORT PER SMACNA GUIDELINES. COORDINATE WITH EXISTING EQUIPMENT ON/NEAR WALL.

2 REMOVE CAR EXHAUST DUCTWORK CONNECTED TO EXISTING VERTICAL EXHAUST RISER AND CAP RISER.

3 INSTALL GAS MONITOR. PROVIDE CONDUIT AND CONTROL WIRING PER MANUFACTURER TO REMOTE SENSORS. PROVIDE CONDUIT AND RELAY PER MANUFACTURER FOR INTERCONNECT AND CONTROL OF AUTOMATIC LOUVER DAMPERS, EF-5, EF-8, AND 30 MIN OVERRIDE SWITCH.

4 BALANCE EXHAUST OUTLET TO 2300 CFM.

5 STAND MOUNTED. COORDINATE LOCATION OF AIR CLEANER WITH EXISTING EQUIPMENT ON OR NEAR WALL PRIOR TO INSTALLATION. BOOM ARMS ATTACHED TO WALL. PROVIDE FACTORY MOUNTS.

6 REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL PENETRATION DETAILS.

9 MOUNT CEILING FAN ON GIRDER AT HIGHEST POINT. COORDINATE EXTENSION LENGTH WITH OVERHEAD CRANE CLEARANCE. CONTRACTOR RESPONSIBLE FOR SUPPORTING MATERIALS. REFER TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

10 PROVIDE CO AND NO2 SENSORS TO ALARM AND ACTIVATE EXISTING EF-8 AND EF-5. FANS SHALL BE INTERLOCKED WITH EXISTING AUTOMATIC DAMPERS AT EXISTING TWO INTAKE LOUVERS. MOUNT DUAL GAS SENSOR AT 4'5" AFF.

11 CONNECT TO EXISTING GAS AFTER UPSIZED GAS METER.

MECHANICAL KEYNOTES

12 GAS PIPING MOUNTED TO WALL. CONTRACTOR RESPONSIBLE FOR SUPPORTING MATERIALS.

13 EXISTING FAN TO REMAIN. DECOMMISSION FAN. PROVIDE BLOCKOUT PANEL.

14 PROVIDE HIGH TEMPERATURE HOSE AND CLAMP HOOD. COORDINATE WITH OWNERS REQUIREMENTS FOR HOOD SIZE PER SERVICED EQUIPMENT.

15 PROVIDE LOCAL ON/OFF SWITCH FOR EXISTING EF-3.

16 COORDINATE INSTALLATION WITH BRIDGE CRANE. MOUNT FAN SIMILAR TO EXISTING FANS. CONTRACTOR RESPONSIBLE FOR ALL SUPPORTING MATERIALS. FAN TO BE WALL HUNG.

17 UNIT MOUNTED ON OUTDOOR STAND. COORDINATE WITH STRUCTURAL DRAWINGS. COORDINATE CURB DIMENSIONS WITH STAND.

18 GAS METER LOAD TO INCREASE BY 1600 CFH. COORDINATE GAS CONNECTION WITH UTILITY.

19 PROVIDE CEILING FAN CONTROL.

20 WELDING EQUIPMENT ADD ALTERNATE. REFER TO BID FORM.

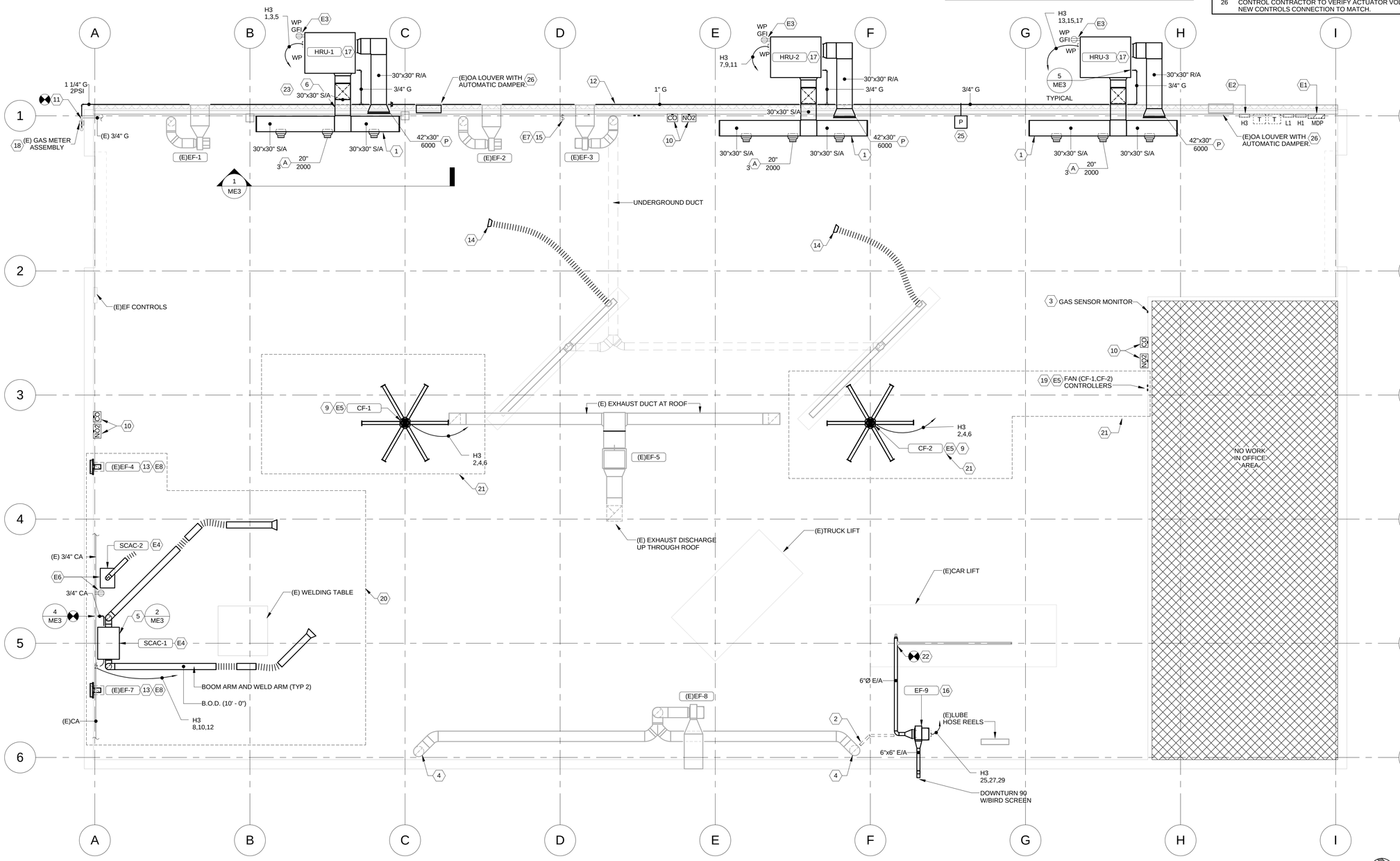
21 CEILING FAN ADD ALTERNATE. REFER TO BID FORM.

22 CONNECT 4" E/A BRANCHES TO NEW DUCTWORK SERVED BY EF-9.

23 REPOSITION EXISTING RADIANT HEATER OUT FROM WALL TO ACCOMODATE DUCTWORK AND PROVIDE COVERAGE OF AREA BELOW.

25 ROOM STATIC PRESSURE SENSOR.

26 CONTROL CONTRACTOR TO VERIFY ACTUATOR VOLTAGE. PROVIDE NEW CONTROLS CONNECTION TO MATCH.



1 ME2 LEVEL 1 OVERALL HVAC AND ELECTRICAL PLAN
1/8" = 1'-0"

THE CITY OF DULUTH MINNESOTA

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Paul D. Haslach
Date: 10/23/14 Reg No: 24488

No.	Description	Date

CITY OF DULUTH

FLEET SERVICES CENTER

4825 MIKE COLALILLO DRIVE

HVAC AND ELECTRICAL PLAN

Project Number	84319
Date	04/29/2016
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ME2

Scale 1/8" = 1'-0"

6/24/2016 3:34:03 PM

H3

PANEL NAME:	H3	VOLT:	480Y/277	BUS SIZE	225 AMPS	REMARKS:
LOCATION:	SHOP	PH:	3	MAIN BRKR:	MLO	14 KAIC
MOUNTING:	SURFACE	WIRE:	4	GND BUS:	YES	GFI NO

RM. NO.	LOAD DESCRIPTION	TYPE	BRKR	CCT	V.A.	V.A.	V.A.	V.A.	V.A.	V.A.	CCT	BRKR	TYPE	LOAD DESCRIPTION	RM. NO.
	HRU-1	M	35	1	9002			600			2	15	M	CF-1 & CF-2 (ALT)	
		M	/	3		9002			600		4	/	M		
		M	3	5			9002			600	6	3	M		
	HRU-2	M	35	7	9002			3266			8	15	M	SCAC-1 (ALT)	
		M	/	9		9002			3266		10	/	M		
		M	3	11			9002			3266	12	3	M		
	HRU-3	M	35	13	9002						14			SPACE	
		M	/	15		9002					16			SPACE	
		M	3	17			9002				18			SPACE	
	MAU-1	M	15	19	3393						20			SPACE	
		M	/	21		3393					22			SPACE	
		M	3	23			3393				24			SPACE	
	EF-9	M	15	25							26			SPACE	
		M	/	27							28			SPACE	
		M	3	29							30			SPACE	
	SPARE		20/1	31							32			SPACE	
	SPARE		20/1	33							34			SPACE	
	SPARE		20/1	35							36			SPACE	
	SPARE		20/1	37							38			SPACE	
	SPARE		20/1	39							40			SPACE	
	SPARE		20/1	41							42			SPACE	

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

TYPE	SYSTEM	MANUFACTURER	MODEL NO.	VOLUME DAMPER	MATERIAL DESCRIPTION	SPECIFICATION	REMARKS
A	NOZZLE DIFFUSER	TITUS	TND-AA	APERTURE	ALUMINUM	ALUMINUM NOZZLE DIFFUSER, 38° DIFLECTION, DUCT MOUNTED.	DUCT MOUNTING RING
P	RETURN GRILLE	TITUS	30R	---	STEEL	HEAVY DUTY FIXED DEFLECTION GRILLE WITH BLADES IN HORIZONTAL POSITION. 3/8" SPACING.	

GAS LOADS SUMMARY

UNIT NO.	DESCRIPTION	MANUFACTURER	MODEL	GAS LOAD INPUT	GAS FLOW (CFH)
HRU-1	HEAT RECOVERY UNIT	GREENHECK	ERCH-55-15H	300000 Btu/h	300
HRU-2	HEAT RECOVERY UNIT	GREENHECK	ERCH-55-15H	300000 Btu/h	300
HRU-3	HEAT RECOVERY UNIT	GREENHECK	ERCH-55-15H	300000 Btu/h	300
Grand total: 3					900

CEILING FAN SCHEDULE

UNIT NO.	MANUFACTURER	MODEL NO.	SIZE (DIAMETER)	SUPPLY FAN FAN RPM	SUPPLY FAN MOTOR POWER	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	REMARKS
CF-1	BAS	BASIC 6	16' - 0"	94	750 W	480 V	3	ADD ALTERNATE
CF-2	BAS	BASIC 6	16' - 0"	94	750 W	480 V	3	ADD ALTERNATE

EXHAUST FAN SCHEDULE

UNIT NO.	MANUFACTURER	MODEL NO.	EXHAUST FAN AIRFLOW	EXHAUST FAN TYPE	EXHAUST FAN WHEEL TYPE	EXHAUST FAN TOTAL STATIC PRESS.	EXHAUST FAN FAN RPM	EXHAUST FAN DRIVE TYPE	EXHAUST FAN MOTOR QUANTITY	EXHAUST FAN MOTOR POWER	UNIT WEIGHT	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	REMARKS
EF-9	CAR-MON	BXI-12A0	400 CFM	SWSI	CW	5.00 in-wg	2500	BELT	1	0.75 hp	120 lb	208 V	3	WALL MOUNT PLATFORM WITH VIBRATION ISOLATION PADS.

SOURCE CAPTURE AIR CLEANER SCHEDULE

UNIT NO.	AREA SERVED	MANUFACTURER	MODEL NO.	TYPE	EXHAUST FAN AIRFLOW	EXHAUST FAN TOTAL STATIC PRESS.	EXHAUST FAN INLETS	REMARKS
SCAC-1	LOCAL	MICRO AIR	RP4	FIXED	2000 CFM	3.00 in-wg	2	3/4" CA CONNECTION. ADD ALTERNATE.
SCAC-2	REMOTE	MICRO AIR	TM100	REMOTE	1000 CFM	3.00 in-wg	1	3/4" CA CONNECTION. ADD ALTERNATE.
Grand total: 2								

ENERGY RECOVERY UNIT SCHEDULE

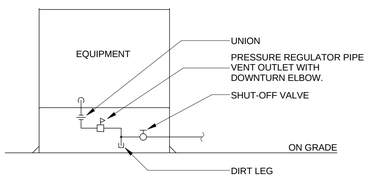
UNIT NO.	MANUFACTURER	MODEL NO.	COOLING DESIGN HEAT EXCHANGER OUTDOOR AIR ENTERING AIR TEMP. DB	COOLING OUTDOOR AIR ENTERING AIR TEMP. WB	COOLING OUTDOOR AIR LEAVING AIR TEMP. DB	COOLING OUTDOOR AIR LEAVING AIR TEMP. WB	COOLING EXHAUST AIR ENTERING AIR TEMP. DB	HEATING DESIGN HEAT EXCHANGER OUTDOOR AIR ENTERING AIR TEMP. DB	HEATING OUTDOOR AIR LEAVING AIR TEMP. DB	HEATING EXHAUST AIR ENTERING AIR TEMP. DB	HEATING EXHAUST AIR FROST CONTROL	SUPPLY FAN AIRFLOW	SUPPLY FAN TYPE	SUPPLY FAN EXT. STATIC PRESS.	SUPPLY FAN TOTAL STATIC PRESS.	SUPPLY FAN FAN RPM	SUPPLY FAN DRIVE TYPE	SUPPLY FAN MOTOR QUANTITY	SUPPLY FAN MOTOR POWER
HRU-1	GREENHECK	ERCH-55-15H	84.5 °F	72.7 °F	78.4 °F	67.4 °F	75.0 °F	-19.5 °F	-20.1 °F	60.0 °F	MODULATING WHEEL	6000 CFM	FORWARD CURVED	0.50 in-wg	1.50 in-wg	1200	VFD	1	7.5 hp
HRU-2	GREENHECK	ERCH-55-15H	84.5 °F	72.7 °F	78.4 °F	67.4 °F	75.0 °F	-19.5 °F	-20.1 °F	60.0 °F	MODULATING WHEEL	6000 CFM	FORWARD CURVED	0.50 in-wg	1.50 in-wg	1200	VFD	1	7.5 hp
HRU-3	GREENHECK	ERCH-55-15H	84.5 °F	72.7 °F	78.4 °F	67.4 °F	75.0 °F	-19.5 °F	-20.1 °F	60.0 °F	MODULATING WHEEL	6000 CFM	FORWARD CURVED	0.50 in-wg	1.50 in-wg	1200	VFD	1	7.5 hp

ENERGY RECOVERY UNIT SCHEDULE - CONTINUED

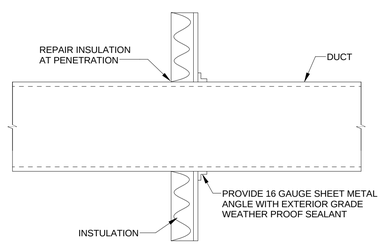
UNIT NO.	EXHAUST FAN AIRFLOW	EXHAUST FAN TYPE	EXHAUST FAN EXT. STATIC PRESS.	EXHAUST FAN TOTAL STATIC PRESS.	EXHAUST FAN FAN RPM	EXHAUST FAN DRIVE TYPE	EXHAUST FAN MOTOR QUANTITY	EXHAUST FAN MOTOR POWER	FILTERS FINAL FILTER EFFICIENCY	GAS FIRED HEAT EXCHANGER GAS BURNER INPUT	GAS BURNER OUTPUT	GAS BURNER FUEL TYPE	AIRSIDE ENTERING AIR TEMP DB	AIRSIDE LEAVING AIR TEMP	AIRSIDE PRESS. DROP	EFFICIENCY AFUE	UNIT WEIGHT	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	REMARKS
HRU-1	6000 CFM	FORWARD CURVED	0.50 in-wg	1.20 in-wg	1100	VFD	1	7.5 hp	MERV 8	300000 Btu/h	240000 Btu/h	NATURAL GAS	40.0 °F	70.0 °F	0.128 in-wg	80	3000 lb	480 V	3	PROVIDE WEATHER HOOD, MODULATING BURNER
HRU-2	6000 CFM	FORWARD CURVED	0.50 in-wg	1.20 in-wg	1100	VFD	1	7.5 hp	MERV 8	300000 Btu/h	240000 Btu/h	NATURAL GAS	40.0 °F	70.0 °F	0.128 in-wg	80	3000 lb	480 V	3	PROVIDE WEATHER HOOD, MODULATING BURNER
HRU-3	6000 CFM	FORWARD CURVED	0.50 in-wg	1.20 in-wg	1100	VFD	1	7.5 hp	MERV 8	300000 Btu/h	240000 Btu/h	NATURAL GAS	40.0 °F	70.0 °F	0.128 in-wg	80	3000 lb	480 V	3	PROVIDE WEATHER HOOD, MODULATING BURNER

GAS FIRED MAKE-UP AIR UNIT SCHEDULE

UNIT NO.	MANUFACTURER	MODEL NO.	TYPE	SUPPLY FAN AIRFLOW	SUPPLY FAN EXT. STATIC PRESS.	SUPPLY FAN TOTAL STATIC PRESS.	SUPPLY FAN FAN RPM	SUPPLY FAN DRIVE TYPE	SUPPLY FAN MOTOR QUANTITY	SUPPLY FAN MOTOR POWER	FILTERS FINAL FILTER EFFICIENCY	GAS FIRED HEAT EXCHANGER GAS BURNER INPUT	GAS BURNER OUTPUT	GAS BURNER FUEL TYPE	AIRSIDE ENTERING AIR TEMP. DB	AIRSIDE LEAVING AIR TEMP. DB	UNIT WEIGHT	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	INTERLOCK UNIT NO.	REMARKS



5 ME3 GAS PIPING CONNECTION DETAIL
NO SCALE



3 ME3 DUCT PENETRATION DETAIL
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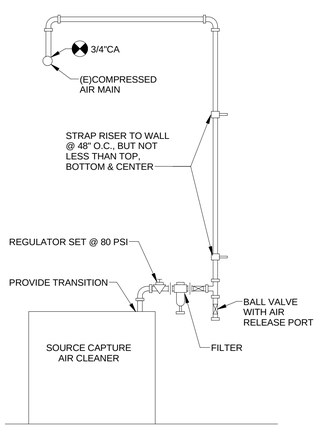

4 ME3 COMPRESSED AIR CONNECTION DETAIL
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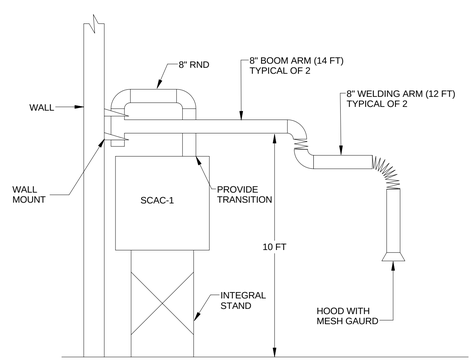
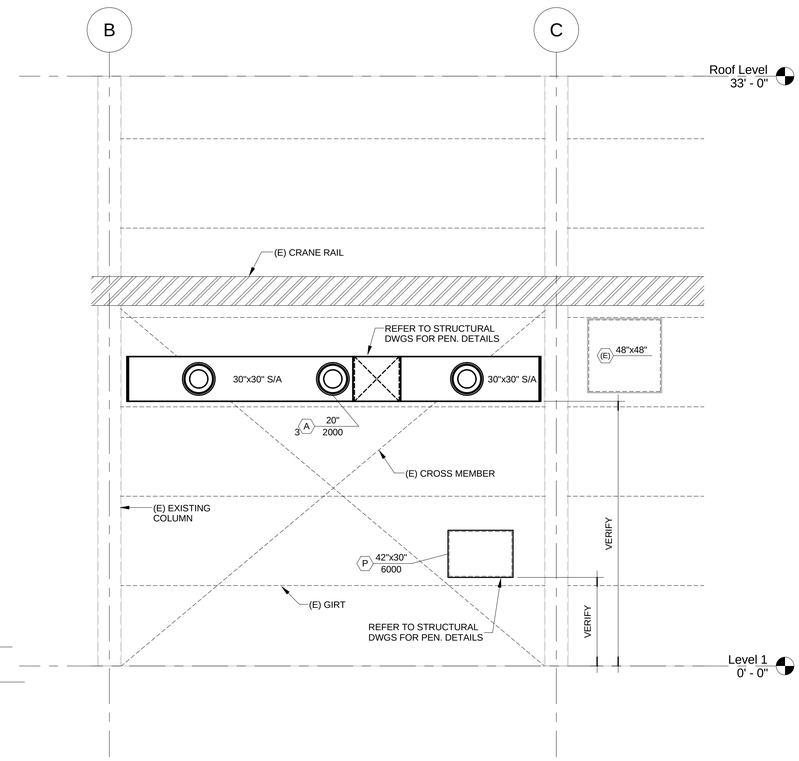


2 ME3 BOOM ARM DETAIL
NO SCALE



1 ME3 DUCTWORK SECTION DETAIL
1/4" = 1'-0"
0 2' 4' 8'

SECTION 26 1000 - BASIC MATERIALS AND METHODS

A. SEQUENCING AND SCHEDULING

1. COORDINATE THE INSTALLATION OF ELECTRICAL WORK WITH WORK OF OTHER TRADES.

B. WIRE AND CABLE

1. PROVIDE COPPER CONDUCTORS FOR FEEDERS, AND BRANCH CIRCUITS. ALUMINUM CONDUCTORS ARE NOT ALLOWED. THHN OR THWN INSULATION, MINIMUM #12 AWG SIZE, SOLID CONDUCTORS FOR SIZES SMALLER THAN #8 AWG, STRANDED FOR #8 AWG AND LARGER. COLOR CODE AT TERMINATIONS.

C. CONDUIT AND BOXES

1. INSTALL ABOVE FLOOR INTERIOR CONDUCTORS IN EMT, UNO. PROVIDE STEEL SET SCREW CONNECTORS AND COUPLINGS.

2. SECURELY FASTEN CONDUIT AND RACEWAYS WITH STEEL STRAPS, CLAMPS, AND HANGERS WITH SUITABLE FASTENERS. TIE WIRES SHALL NOT BE USED.

3. INTERIOR OUTLET BOXES SHALL BE STAMPED STEEL, SQUARE BOXES WITH TILE RING SIZED TO ACCOMMODATE OUTLET BOXES IN THE SAME WALL SHALL NOT BE MOUNTED BACK-TO-BACK. AT COMMON WALL PARTITIONS IN OFFICES, INSTALL BOXES WITH AT LEAST ONE STUD BETWEEN OUTLETS.

4. CONDUIT INSTALLED BELOW GRADE OR BELOW BUILDING SLAB IN GRADE, SHALL BE PVC SCHEDULE 40.

5. RACEWAYS SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION, EXCEPT IN UNFINISHED SPACES.EXPOSED RACEWAY WHEN REQUIRED SHALL BE APPROVED BY OWNER AND PAINTED TO MATCH ADJACENT SURFACE.

D. IDENTIFICATION

1. PANELBOARDS, TRANSFORMERS, SAFETY SWITCHES AND MOTOR STARTERS SHALL BE IDENTIFIED WITH ENGRAVED PLASTIC PLATES (WHITE LETTERS BLACK PLATE). PROVIDED TYPED CIRCUIT DIRECTORIES THAT REPRESENT ALL BRANCH CIRCUITING, CONDITIONS PRESENT AT PROJECT COMPLETION, INCLUDING REVISED AND NEW ENGRAVED LABELS FOR ALL DISTRIBUTION EQUIPMENT.

SECTION 26 1400 - WIRING DEVICES

A. WIRING DEVICES SHALL BE SPECIFICATION GRADE, COLOR VERIFIED WITH OWNER, SIDE-WIRED, 20 AMP, HUBBELL 1221 SERIES SWITCHES, HUBBELL 5352 SERIES RECEPTACLES, HUBBELL 8300 SERIES GFCI RECEPTACLES, OR EQUAL.

B. DEVICE PLATES SHALL BE SMOOTH HIGH IMPACT PLASTIC AND MATCH DEVISE IN COLOR.

SECTION 26 2816 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS

A. THIS SECTION INCLUDES THE FOLLOWING INDIVIDUALLY MOUNTED, ENCLOSED SWITCHES AND CIRCUIT BREAKERS: FUSIBLE SWITCHES, NON-FUSIBLE SWITCHES, ENCLOSURES. SWITCH(S) SHALL BE MANUFACTURED BY CUTLER HAMMER, SQUARE D, GE OR EQUIVALENT.

B. PROVIDE FUSIBLE SWITCHES INCLUDING FUSES, SIZE AS INDICATED, WITH CLIPS OR BOLT PADS TO ACCOMMODATE SPECIFIED FUSES, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

C. PROVIDE NON-FUSIBLE SWITCH(ES), SIZE AS INDICATED, WITH LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

SECTION 26 4700 - PANELBOARDS

A. PROVIDE DEAD-FRONT PANELBOARDS WITH SWITCHING AND OVERCURRENT PROTECTIVE DEVICES IN QUANTITIES, RATINGS, TYPES, AND ARRANGEMENTS SHOWN. EQUIP WITH ALUMINUM BUS BARS, FULL-SIZED NEUTRAL BAR, GROUND BUS. PROVIDE BOLT-IN TYPE HEAVY-DUTY, THERMOMAGNETIC CIRCUIT BREAKERS.

B. PANELBOARDS SHALL BE AS MANUFACTURED BY CUTLER HAMMER, SQUARE D, GE OR EQUIVALENT.

SECTION 28 3100 - FIRE DETECTION AND ALARM

A. PROVIDE FIRE ALARM DETECTION AND/OR NOTIFICATION DEVICES AS INDICATED ON PLAN, MATCH EXISTING MANUFACTURER AND MODELS. INSTALL PER MANUFACTURER REQUIREMENTS.

B. PROVIDE CONNECTIONS TO FIRE ALARM/DETECTION DEVICES PROVIDE BY MECHANICAL CONTRACTOR AS REQUIRED.

THE CITY OF DULUTH MINNESOTA

Gausman & Moore
Mechanical and Electrical Engineers
501 Lake Avenue South
Office Suite 310
Duluth, Minnesota 55802
(218) 722-2555 Fax (218) 722-9306
Project No. 84319

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 on the State of Minnesota.

Paul D. Haslach
Date: 10/23/14 Reg No: 24488

No.	Description	Date

CITY OF DULUTH

FLEET SERVICES CENTER

4825 MIKE COLALILLO DRIVE

MECHANICAL AND ELECTRICAL SCHEDULES, DETAILS AND ELECTRICAL SPEC

Project Number	84319
Date	04/29/2016
Drawn By	K. DAVIS
Checked By	J. HOMOLA
Scale	As indicated

ME3

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