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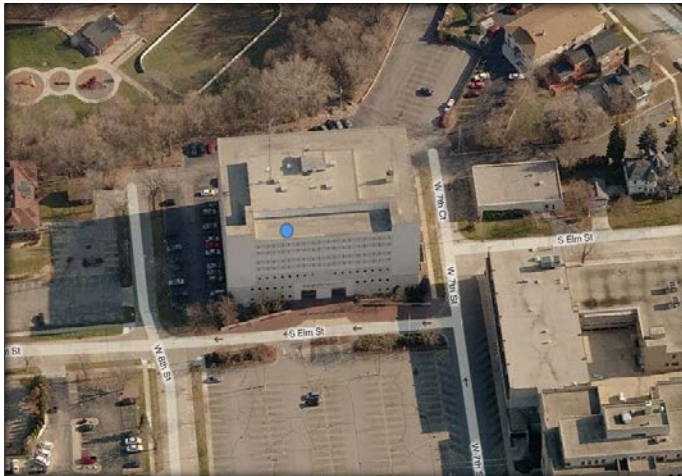
PROJECT MANUAL

**OUTAGAMIE COUNTY
2014 ROOF REPLACEMENT
JUSTICE CENTER
ROOF AREAS 1 - 4
APPLETON, WISCONSIN**

SEG Project No. **12351**

Prepared For

**Ms. Nicole Schoultz
OUTAGAMIE COUNTY
410 WALNUT STREET
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Outagamie County – Justice Center

Prepared By
Specialty Engineering Group (STR-SEG)

May 3, 2013

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SECTION 000115

Drawings and/or Schedules Bound Herein

Title	Sheet Number
Roof Plan	RP-1
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Title	Sheet No's. Thru
Roof Edge Flashing Detail	D-1
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SECTION 003100
AVAILABLE PROJECT INFORMATION

PART 1 GENERAL

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

EXISTING REPORTS AND SURVEYS

4.01 EXISTING CONDITIONS SURVEY

- A. The following constructions were noted during field investigation:
 - 1. Roof Areas 1 and 2: stone ballasted EPDM single-ply membrane, 1" extruded polystyrene (XPS) insulation, tapered XPS insulation, 1" perlite insulation, 2 3/4" expanded polystyrene insulation (EPS), poured concrete decking with portions of steel decking at various locations.
 - 2. Roof Area 3: Stone ballasted EPDM single-ply membrane, tapered XPS insulation, 1.5" xps insulation, 1" perlite insulation, dead-level steel decking.
 - 3. Roof Area 4: mechanically fastened EPDM single-ply membrane, tapered XPS insulation, 1" perlite insulation, dead-level steel decking.

4.02 INFORMATION PROVIDED IN THIS SECTION SHALL BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO SUBMITTING THEIR BID. NO EXTRAS WILL BE ALLOWED FOR DIFFERENCES REGARDING INFORMATION PROVIDED VERSUS EXISTING CONDITIONS.

END OF SECTION

**SECTION 004336
PROPOSED SUBCONTRACTORS FORM**

PARTICULARS

1.01 HEREWITH IS THE LIST OF SUBCONTRACTORS REFERENCED IN THE BID SUBMITTED BY:

1.02 (BIDDER) _____

1.03 TO (OWNER) OUTAGAMIE COUNTY

**1.04 THE FOLLOWING WORK WILL BE PERFORMED (OR PROVIDED) BY SUBCONTRACTORS
AND COORDINATED BY US:**

LIST OF SUBCONTRACTORS

2.01 WORK SUBJECT.....SUBCONTRACTOR NAME_____

ADDRESS_____

PHONE_____ FAX_____

2.02 WORK SUBJECT.....SUBCONTRACTOR NAME_____

ADDRESS_____

PHONE_____ FAX_____

END OF SUPPLEMENT A

SECTION 005000
CONTRACTING FORMS AND SUPPLEMENTS

PART 1 GENERAL

1.01 AGREEMENT AND CONDITIONS OF THE CONTRACT

- A. See Section 007300 for the Supplementary Conditions.
- B. The Agreement is based on AIA A101.
- C. The General Conditions are AIA A201.

1.02 FORMS

- A. Use the following forms for the specified purposes unless otherwise indicated elsewhere in the Contract Documents.

1.03 REFERENCE STANDARDS

- A. AIA A101 - Standard Form of Agreement Between Owner and Contractor 1987.
- B. AIA A201 - General Conditions of the Contract for Construction; 1987.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

*AIA Document A101
(as revised by Owner 1987 Edition)*

**STANDARD FORM OF AGREEMENT BETWEEN
OWNER AND CONTRACTOR**

*where the basis of payment is a
STIPULATED SUM*

*THIS DOCUMENT HAS IMPORTANT LEGAL CONSEQUENCES: CONSULTATION
WITH AN ATTORNEY IS ENCOURAGED WITH RESPECT TO
ITS COMPLETION OR MODIFICATION*

AGREEMENT

made as of the day of in the year of
Nineteen Hundred and

BETWEEN the Owner:
(name and address)

and the Contractor:
(name and address)

The Project is:
(name and location)

The Architect is:
(name and address)

The Owner and Contractor agree as set forth below.

ARTICLE 1
THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, as revised by owner, Supplementary and other Conditions), Drawings, Specifications, addenda issued prior to execution of this Agreement, other documents listed in this Agreement and Modifications issued after execution of this Agreement; these form the Contract, and are as fully a part of the Contracts as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. An enumeration of the Contract Documents, other than Modifications, appears in Article 9.

ARTICLE 2
THE WORK OF THIS CONTRACT

The Contractor shall execute the entire Work described in the Contract Documents, except to the extent specifically indicated in the Contract Documents to be the responsibility of others, or as follows:

ARTICLE 3
**DATES OF COMMENCEMENT, SUBSTANTIAL COMPLETION,
AND FINAL COMPLETION**

3.1 The date of commencement is the date from which the Contract Time of Paragraph 3.2 is measured, and shall be the date of this Agreement, as first written above, unless a different date is stated below or provision is made for the date to be fixed in a notice to proceed issued by the Owner.

(Insert date of commencement if it differs from the date of this Agreement or, if applicable, state that the date will be fixed in a notice to proceed.)

Unless the date of commencement is established by a notice to proceed issued by the Owner, the Contractor shall notify the Owner in writing not less than five days before commencing the Work to permit the timely filing of mortgages, mechanic's liens and other security interests.

3.2 The Contractor shall achieve Substantial Completion of the entire Work not later than

(Insert the calendar date or number of calendar days after the date of commencement. Also insert any requirements for earlier Substantial Completion of certain portions of the Work, if not stated elsewhere in the Contract Documents.)

, subject to adjustments of this Contract Time as provided in the Contract Documents.

(Insert provisions, if any, for liquidated damages relating to failure to complete on time.)

3.3 Substantial Completion occurs when the Work is sufficiently completed in accordance with the Contract so the Owner can occupy or utilize the Work for its intended use. This does not mean that the building is in fact completed and finished.

3.4 The Contractor shall achieve Final Completion of the entire Work, not later than _____. Final Completion of the Work is the date by which the Work must be completed in accordance with the plans and specifications.

ARTICLE 4 **CONTRACT SUM**

4.1 The Owner shall pay the Contractor in current funds for the Contractor's performance of the Contract the Contract Sum of _____ Dollars (\$_____), subject to additions and deductions as provided in the Contract Documents.

4.2 The Contract Sum is based upon the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner.

(State the numbers or other identification of accepted alternates. If decisions on other alternates are to be made by the Owner subsequent to the execution of this Agreement, attach a schedule of such other alternates showing the amount for each and the date which that amount is valid.)

4.3 Unit prices, if any, are as follows:

ARTICLE 5
PROGRESS PAYMENTS

5.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

5.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:

5.3 Provided an Application for Payment is received by the Architect not later than the _____ day of a month, the Owner shall make payment to the Contractor not later than the _____ day of the same month. If an Application for Payment is received by the Architect after the application date fixed above, payment shall be made by the Owner not later than _____ days after the Architect receives the Application for Payment.

5.4 Each Application for Payment shall be based upon the schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work and be prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment.

5.5 Applications for Payment shall indicate the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

5.6 Subject to the provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

5.6.1 Take that portion of the Contract Sum properly allocable to completed Work as determined by multiplying the percentage completion of each portion of the Work by the share of the total Contract Sum allocated to that portion of the Work in the schedule of values, less retainage in accordance with Sec. 66.29(9)(b), Wis. Stats. (91-92).

5.6.2 The Owner may add that portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing), less retainage as provided in Subparagraph 5.6.1.

5.6.3 Subtract the aggregate of previous payments made by the Owner; and

5.6.4 Subtract amounts, if any, for which the Architect has withheld or nullified a Certificate for Payment as provided in Paragraph 9.5 of the General Conditions.

5.7 The progress payment amount determined in accordance with Paragraph 5.6 shall be further modified under the following circumstances:

5.7.1 Left Blank Intentionally

5.7.2 Add, if Final Completion of the Work is thereafter materially delayed through no fault of the Contractor, as determined by the Architect, any additional amounts payable in accordance with Subparagraph 9.10.3 of the General Conditions.

5.8 *(If it is intended, prior to Substantial Completion of the entire Work, to reduce or limit the retainage resulting from the percentages inserted in Paragraphs 5.6.1 and 5.6.2 above, and this is not explained elsewhere in the Contract Documents, insert here provisions for such reduction or limitation.)*

ARTICLE 6 **FINAL PAYMENT**

Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when the Contract has been fully performed by the Contractor. Final payment does not relieve Contractor's responsibility of correcting non-conforming Work and to satisfy other requirements, if any, which survive final payment; and a final Certificate for Payment has been issued by the Architect; such final payment shall be made by the Owner not more than 30 days after the issuance of the Architect's final Certificate for Payment, or as follows:

ARTICLE 7 **MISCELLANEOUS PROVISIONS**

7.1 Where reference is made in this Agreement to a provision of the General Conditions or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

7.2 Payments due and unpaid under the Contract shall bear interest from the date payment is due at the legal rate prevailing from time to time at the place where the Project is located.

(Usury laws and requirements under the Federal Truth in Lending Act, similar state and local consumer credit laws and other regulations at the Owner's and Contractor's principal places of business, the location of the Project and elsewhere may affect the validity of this provision. Legal advice should be obtained with respect to deletions or modifications, and also regarding requirements such as written disclosures or waivers.)

7.3 Other provisions:

7.3.1 The Contractor agrees that it will keep in force and effect insurance policies as outlined below and as required in Article 11 of the General Conditions:

(a) Workers' Compensation and Employer's Liability Insurance - Statutory Workers' Compensation and Employer's Liability insurance with a limit of liability not less than \$500,000 each employee and accident. Contractor shall require subcontractors not protected under its insurance to take out and maintain such insurance.

Owner shall not be liable to Contractor or its employees for any injuries to Contractor's employees arising out of the performance of work under this agreement. Contractor and its workers' compensation insurance carrier agree to waive any and all rights of recovery from Owner for workers' compensation claims made by its employees. Contractor agrees that the indemnification and hold harmless provisions within Paragraph 3.18 of the General Conditions extends to any claims brought by or on behalf of any employee of the Contractor.

(b) Commercial General Liability Insurance - Policy shall be written to provide coverage for, but not limited to, premises and operations, products and completed operations, personal injury, blanket contractual, broad form property damage, independent contractors, XCU-explosion, collapse, underground coverage. Limits of liability shall not be less than \$1,000,000 each occurrence, \$1,000,000 aggregate. Policy shall be endorsed to provide for the per project application of limits (ISO endorsement CG2503 or equivalent) or general aggregate must be waived in entirety. The Owner, its boards, commissions, agencies, officers, employees and representatives shall be named as additional insureds on a primary basis and so stated on the Certificate of Insurance.

(c) Automobile Liability Insurance - Business automobile policy covering all owned, hired and nonowned private passenger and commercial vehicles. Limit of liability not less than \$500,000 combined single limit.

(d) Umbrella Liability Insurance - Coverage to be in excess of employer's liability, commercial general liability, and automobile liability insurance. Limits of liability not less than \$_____ each occurrence, \$_____ aggregate.

7.3.2 In connection with the performance of work under this agreement, Contractor agrees not to discriminate against any employee, applicant for employment, or actual or potential recipients of services

because of age, race, religion, color, marital status, sexual orientation, sex, handicap as defined in Section 504 of the Americans with Disabilities Act (ADA), developmental disability, or nation origin. This provision shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training including apprenticeship.

ARTICLE 8

TERMINATION OR SUSPENSION

8.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of the General Conditions.

8.2 The Work may be suspended by the Owner as provided in Article 14 of the General Conditions.

ARTICLE 9
ENUMERATION OF CONTRACT DOCUMENTS

9.1 The Contract Documents, except for Modifications issued after execution of this Agreement, are enumerated as follows:

9.1.1 The Agreement is this executed Standard Form of Agreement Between Owner and Contractor, AIA Document A101, as modified by Owner.

9.1.2 The General Conditions are the General Conditions of the Contract for Construction, AIA Document A201, as modified by Owner.

9.1.3 The Supplementary and other Conditions of the Contract are those contained in the Project Manual dated _____, and are as follows:

Document	Title	Pages
-----------------	--------------	--------------

9.1.4 The Specifications are those contained in the Project Manual dated as in Subparagraph 9.1.3, and are as follows:

(Either list the Specifications here or refer to an exhibit attached to this Agreement.)

Section	Title	Pages
----------------	--------------	--------------

9.1.5 The Drawings are as follows, and are dated _____ unless a different date is shown below:

(Either list the Drawings here or refer to an exhibit attached to this Agreement.)

Number	Title	Date
---------------	--------------	-------------

9.1.6 The addenda, if any, are as follows:

Number	Date	Pages
--------	------	-------

Portions of addenda relating to bidding requirements are not part of the Contract Documents unless the bidding requirements are also enumerated in this Article.

9.1.7 Other documents, if any, forming part of the Contract Documents are as follows:

(List here any additional documents which are intended to form part of the Contract Documents. The General Conditions provide that bidding requirements such as advertisements or invitation to bid, Instructions to Bidders, sample forms and the Contractor's bid are not part of the Contract Documents unless enumerated in this Agreement. They should be listed here only if intended to be part of the Contract Documents.)

This Agreement is entered into as of the day and year first written above and is executed in at least three original copies of which one is to be delivered to the Contractor, one to the Architect for use in the administration of the Contract, and the remainder to the Owner.

OUTAGAMIE COUNTY:

CONTRACTOR:

Thomas Nelson
County Executive

(Signature)

Judith Schuette
Board Chair

(Printed name and title)

Approved as to Form:

Lori O'Bright
County Clerk

Joseph P. Guidote, Jr.
Corporation Counsel, Outagamie County

SECTION 007200
GENERAL CONDITIONS

FORM OF GENERAL CONDITIONS

1.01 THE GENERAL CONDITIONS APPLICABLE TO THIS CONTRACT IS ATTACHED AND SHOULD BE INSERTED FOLLOWING THIS PAGE.

SUPPLEMENTARY CONDITIONS

2.01 REFER TO DOCUMENT 007300 FOR AMENDMENTS TO THESE GENERAL CONDITIONS.

END OF DOCUMENT

SECTION 007300
SUPPLEMENTARY CONDITIONS

PART 1 GENERAL

1.01 SUMMARY

- A. These Supplementary Conditions amend and supplement the Owner's agreement included herein, as indicated below. All provisions that are not so amended or supplemented remain in full force and effect.
- B. In the event of conflicts between the Owner's and AIA General Conditions, the Owner's documents shall take precedence.

1.02 MODIFICATIONS TO OWNER'S AGREEMENT

- A. SCHEDULE OF OCCUPATIONAL CLASSIFICATIONS AND MINIMUM HOURLY WAGE RATES
 - 1. Follows this page.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF DOCUMENT

PREVAILING WAGE RATE DETERMINATION

Issued by the State of Wisconsin
Department of Workforce Development
Pursuant to s. 66.0903, Wis. Stats.
Issued On: 4/15/2013

DETERMINATION NUMBER: 201301114

EXPIRATION DATE: Prime Contracts MUST Be Awarded or Negotiated On Or Before 12/31/2013. If NOT, You MUST Reapply.

PROJECT NAME: OUTAGAMIE COUNTY JUSTICE CENTER ROOF REPLACEMENT 2013
PROJECT NO: 12571

PROJECT LOCATION: APPLETON CITY, OUTAGAMIE COUNTY, WI

CONTRACTING AGENCY: OUTAGAMIE COUNTY

CLASSIFICATION:	Contractors are responsible for correctly classifying their workers. Either call the Department of Workforce Development (DWD) with trade or classification questions or consult DWD's Dictionary of Occupational Classifications & Work Descriptions on the DWD website at: dwd.wisconsin.gov/er/prevailing_wage_rate/Dictionary/dictionary_main.htm .
OVERTIME:	<p>Time and one-half must be paid for all hours worked:</p> <ul style="list-style-type: none">- over 10 hours per day on prevailing wage projects- over 40 hours per calendar week- Saturday and Sunday- on all of the following holidays: January 1; the last Monday in May; July 4; the 1st Monday in September; the 4th Thursday in November; December 25;- The day before if January 1, July 4 or December 25 falls on a Saturday;- The day following if January 1, July 4 or December 25 falls on a Sunday. <p>Apply the time and one-half overtime calculation to whichever is higher between the Hourly Basic Rate listed on this project determination or the employee's regular hourly rate of pay. Add any applicable Premium or DOT Premium to the Hourly Basic Rate before calculating overtime.</p> <p>A DOT Premium (discussed below) may supersede this time and one-half requirement.</p>
FUTURE INCREASE:	When a specific trade or occupation requires a future increase, you MUST add the full hourly increase to the "TOTAL" on the effective date(s) indicated for the specific trade or occupation.
PREMIUM PAY:	If indicated for a specific trade or occupation, the full amount of such pay MUST be added to the "HOURLY BASIC RATE OF PAY" indicated for such trade or occupation, whenever such pay is applicable.
DOT PREMIUM:	This premium only applies to highway and bridge projects owned by the Wisconsin Department of Transportation and to the project type heading "Airport Pavement or State Highway Construction." DO NOT apply the premium calculation under any other project type on this determination.
APPRENTICES:	Pay apprentices a percentage of the applicable journey person's hourly basic rate of pay and hourly fringe benefit contributions specified in this determination. Obtain the appropriate percentage from each apprentice's contract or indenture.
SUBJOURNEY:	Subjourney wage rates may be available for some of the trades or occupations indicated below with the exception of laborers, truck drivers and heavy equipment operators. Any employer interested in using a subjourney classification on this project MUST complete Form ERD-10880 and request the applicable wage rate from the Department of Workforce Development PRIOR to using the subjourney worker on this project.

This document **MUST BE POSTED** by the **CONTRACTING AGENCY** in at least one conspicuous and easily accessible place **on the site of the project**. A local governmental unit may post this document at the place normally used to post public notices if there is no common site on the project. This document **MUST** remain posted during the entire time any worker is employed on the project and **MUST** be physically incorporated into the specifications and all contracts and subcontracts. If you have any questions, please write to the Equal Rights Division, Labor Standards Bureau, P.O. Box 8928, Madison, Wisconsin 53708 or call (608) 266-6861.

The following statutory provisions apply to local governmental unit projects of public works and are set forth below pursuant to the requirements of s. 66.0903(8), Stats.

s. 66.0903 (1) (f) & s. 103.49 (1) (c) "PREVAILING HOURS OF LABOR" for any trade or occupation in any area means 10 hours per day and 40 hours per week and may not include any hours worked on a Saturday or Sunday or on any of the following holidays:

1. January 1.
2. The last Monday in May.
3. July 4.
4. The first Monday in September.
5. The 4th Thursday in November.
6. December 25.
7. The day before if January 1, July 4 or December 25 falls on a Saturday.
8. The day following if January 1, July 4 or December 25 falls on a Sunday.

s. 66.0903 (10) RECORDS; INSPECTION; ENFORCEMENT.

(a) Each contractor, subcontractor, or contractor's or subcontractor's agent performing work on a project of public works that is subject to this section shall keep full and accurate records clearly indicating the name and trade or occupation of every person performing the work described in sub. (4) and an accurate record of the number of hours worked by each of those persons and the actual wages paid for the hours worked.

s. 66.0903 (11) LIABILITY AND PENALTIES.

(a) 1. Any contractor, subcontractor, or contractor's or subcontractor's agent who fails to pay the prevailing wage rate determined by the department under sub. (3) or who pays less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor is liable to any affected employee in the amount of his or her unpaid wages or his or her unpaid overtime compensation and in an additional amount as liquidated damages as provided under subd. 2., 3., whichever is applicable.

2. If the department determines upon inspection under sub. (10) (b) or (c) that a contractor, subcontractor, or contractor's or subcontractor's agent has failed to pay the prevailing wage rate determined by the department under sub. (3) or has paid less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor, the department shall order the contractor to pay to any affected employee the amount of his or her unpaid wages or his or her unpaid overtime compensation and an additional amount equal to 100 percent of the amount of those unpaid wages or that unpaid overtime compensation as liquidated damages within a period specified by the department in the order.

3. In addition to or in lieu of recovering the liability specified in subd. 1. as provided in subd. 2., any employee for and in behalf of that employee and other employees similarly situated may commence an action to recover that liability in any court of competent jurisdiction. If the court finds that a contractor, subcontractor, or contractor's or subcontractor's agent has failed to pay the prevailing wage rate determined by the department under sub. (3) or has paid less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor, the court shall order the contractor, subcontractor, or agent to pay to any affected employee the amount of his or her unpaid wages or his or her unpaid overtime compensation and an additional amount equal to 100 percent of the amount of those unpaid wages or that unpaid overtime compensation as liquidated damages.

5. No employee may be a party plaintiff to an action under subd. 3. unless the employee consents in writing to become a party and the consent is filed in the court in which the action is brought. Notwithstanding s. 814.04 (1), the court shall, in addition to any judgment awarded to the plaintiff, allow reasonable attorney fees and costs to be paid by the defendant.

BUILDING OR HEAVY CONSTRUCTION

Includes sheltered enclosures with walk-in access for the purpose of housing persons, employees, machinery, equipment or supplies and non-sheltered work such as canals, dams, dikes, reservoirs, storage tanks, etc. A sheltered enclosure need not be "habitable" in order to be considered a building. The installation of machinery and/or equipment, both above and below grade level, does not change a project's character as a building. On-site grading, utility work and landscaping are included within this definition. Residential buildings of four (4) stories or less, agricultural buildings, parking lots and driveways are NOT included within this definition.

SKILLED TRADES

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
101	Acoustic Ceiling Tile Installer	30.16	15.31	45.47
102	Boilermaker	31.09	25.60	56.69
103	Bricklayer, Blocklayer or Stonemason Future Increase(s): Add \$.80 on 6/1/2013 Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	30.77	16.92	47.69
104	Cabinet Installer	30.16	15.31	45.47
105	Carpenter	30.16	15.31	45.47
106	Carpet Layer or Soft Floor Coverer	30.16	15.31	45.47
107	Cement Finisher Future Increase(s): Add \$.80 on 6/1/2013	30.77	16.92	47.69
108	Drywall Taper or Finisher	20.00	14.65	34.65
109	Electrician Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	27.80	16.65	44.45
110	Elevator Constructor	42.86	23.84	66.70
111	Fence Erector	22.50	3.65	26.15
112	Fire Sprinkler Fitter	36.07	17.49	53.56
113	Glazier	27.30	16.54	43.84
114	Heat or Frost Insulator	29.04	19.81	48.85
115	Insulator (Batt or Blown)	27.47	19.16	46.63
116	Ironworker	28.03	21.97	50.00
117	Lather	30.16	15.31	45.47

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
118	Line Constructor (Electrical)	37.05	16.94	53.99
119	Marble Finisher	20.00	0.00	20.00
120	Marble Mason	30.76	16.42	47.18
121	Metal Building Erector	25.00	0.96	25.96
122	Millwright	31.76	15.36	47.12
123	Overhead Door Installer	13.50	0.00	13.50
124	Painter	21.47	10.37	31.84
125	Pavement Marking Operator	30.00	0.00	30.00
126	Piledriver	30.66	15.31	45.97
127	Pipeline Fuser or Welder (Gas or Utility)	30.18	19.29	49.47
129	Plasterer	30.76	16.42	47.18
130	Plumber Future Increase(s): Add \$.85/hr on 6/03/2013	32.59	16.10	48.69
132	Refrigeration Mechanic Future Increase(s): Add \$.85/hr on 6/3/2013.	32.59	16.10	48.69
133	Roofer or Waterproofor	20.00	7.66	27.66
134	Sheet Metal Worker Future Increase(s): Add \$.60/hr on 6/1/2013.	29.35	20.20	49.55
135	Steamfitter Future Increase(s): Add \$.85/hr on 6/3/2013.	32.59	16.10	48.69
137	Teledata Technician or Installer Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	21.89	11.85	33.74
138	Temperature Control Installer Future Increase(s): Add \$.85/hr on 6/03/2013.	32.59	16.10	48.69
139	Terrazzo Finisher Future Increase(s): Add \$.80 on 6/1/2013	26.57	16.50	43.07
140	Terrazzo Mechanic	29.51	17.63	47.14
141	Tile Finisher	23.77	10.15	33.92
142	Tile Setter	30.76	16.42	47.18

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
143	Tuckpointer, Caulker or Cleaner Future Increase(s): Add \$.80 on 6/1/2013 Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	30.77	16.92	47.69
144	Underwater Diver (Except on Great Lakes)	34.16	15.31	49.47
146	Well Driller or Pump Installer Future Increase(s): Add \$.20/hr on 06/01/2013.	25.32	15.45	40.77
147	Siding Installer	17.50	0.00	17.50
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	28.24	15.10	43.34
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	29.64	14.64	44.28
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.94	13.57	39.51
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.08	12.96	37.04
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	24.00	11.57	35.57

TRUCK DRIVERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
201	Single Axle or Two Axle	31.89	18.33	50.22
203	Three or More Axle Future Increase(s): Add \$1.85/hr on 6/1/2013. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	23.31	17.13	40.44
204	Articulated, Euclid, Dumptor, Off Road Material Hauler	15.00	2.93	17.93
205	Pavement Marking Vehicle	20.85	11.02	31.87
207	Truck Mechanic	22.50	16.19	38.69

LABORERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
301	General Laborer Future Increase(s): Add \$.75/hr. on 06/03/2013 Premium Increase(s): Add \$1.00/hr for certified welder and pipelayer; Add \$.25/hr for mason tender	23.46	13.88	37.34
302	Asbestos Abatement Worker	19.97	3.63	23.60
303	Landscaper	21.50	1.74	23.24
310	Gas or Utility Pipeline Laborer (Other Than Sewer and Water)	19.84	12.65	32.49
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased) Premium Increase(s): DOT PREMIUMS: Pay two times the hourly basic rate on New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	18.31	12.67	30.98
314	Railroad Track Laborer	23.41	15.14	38.55
315	Final Construction Clean-Up Worker	23.41	13.43	36.84

**HEAVY EQUIPMENT OPERATORS
SITE PREPARATION, UTILITY OR LANDSCAPING WORK ONLY**

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
501	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Milling Machine; Boring Machine (Directional, Horizontal or Vertical); Backhoe (Track Type) Having a Mfgr's Rated Capacity of 130,000 Lbs. or Over; Backhoe (Track Type) Having a Mfgr's Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bulldozer or Endloader (Over 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Crane, Shovel, Dragline, Clamshells; Forklift (Machinery Moving or Steel Erection, 25 Ft & Over); Gradall (Cruz-Aire Type); Grader or Motor Patrol; Master Mechanic; Mechanic or Welder; Robotic Tool Carrier (With or Without Attachments); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Tractor (Scraper, Dozer, Pusher, Loader); Trencher (Wheel Type or Chain Type Having Over 8 Inch Bucket). Future Increase(s): Add \$1/hr on 6/2/2013.	32.92	18.46	51.38

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
502	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Environmental Burner; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Jeep Digger; Screed (Milling Machine); Skid Rig; Straddle Carrier or Travel Lift; Stump Chipper; Trencher (Wheel Type or Chain Type Having 8 Inch Bucket & Under). Future Increase(s): Add \$1/hr on 6/2/2013.	32.39	18.46	50.85
503	Air Compressor (&/or 400 CFM or Over); Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Crusher, Screening or Wash Plant; Farm or Industrial Type Tractor; Forklift; Generator (&/or 150 KW or Over); Greaser; High Pressure Utility Locating Machine (Daylighting Machine); Mulcher; Oiler; Post Hole Digger or Driver; Pump (3 Inch or Over) or Well Points; Refrigeration Plant or Freeze Machine; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack.	31.89	18.19	50.08
504	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	37.45	19.45	56.90
505	Work Performed on the Great Lakes Including Crane or Backhoe Operator; Assistant Hydraulic Dredge Engineer; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder; 70 Ton & Over Tug Operator. Future Increase(s): Add \$2.19/hr on 01/01/2013; Add \$2.00/hr on 01/01/2014. Premium Increase(s): Add \$.50/hr for Friction Crane, Lattice Boom or Crane Certification (CCO).	38.80	20.17	58.97
506	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery. Future Increase(s): Add \$2.08/hr on 01/01/2013; Add \$2.00/hr on 01/01/2014.	34.50	20.04	54.54
507	Work Performed on the Great Lakes Including Deck Equipment Operator, Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY. Future Increase(s): Add \$1.88/hr on 01/01/2013; Add \$2.00/hr on 01/01/2014.	28.70	19.86	48.56

**HEAVY EQUIPMENT OPERATORS
EXCLUDING SITE PREPARATION, UTILITY, PAVING LANDSCAPING WORK**

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
508	Boring Machine (Directional); Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic. Future Increase(s): Add \$1/hr on 6/2/2013. Premium Increase(s): Add \$.50/hr for >200 Ton / Add \$1/hr at 300 Ton / Add \$1.50 at 400 Ton / Add \$2/hr at 500 Ton & Over.	35.12	18.46	53.58
509	Backhoe (Track Type) Having a Mfgr's Rated Capacity of 130,000 Lbs. or Over; Boring Machine (Horizontal or Vertical); Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With A Lifting Capacity Of 4,000 Lbs. & Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Pile Driver; Versi Lifts, Tri-Lifts & Gantrys (20,000 Lbs. & Over). Future Increase(s): Add \$1/hr on 6/2/2013. Premium Increase(s): Add \$.25/hr for all >45 Ton lifting capacity cranes.	34.12	18.46	52.58
510	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump (Over 46 Meter), Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Dredge (NOT Performing Work on the Great Lakes); Forklift (Machinery Moving or Steel Erection, 25 Ft & Over); Gradall (Cruz-Aire Type); Hydro-Blaster (10,000 PSI or Over); Milling Machine; Skid Rig; Traveling Crane (Bridge Type). Future Increase(s): Add \$1/hr on 6/2/2013.	32.92	18.46	51.38

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
511	Air, Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Bulldozer or Endloader (Over 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotec or Bidwell Type); Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Environmental Burner; Gantrys (Under 20,000 Lbs.); Grader or Motor Patrol; High Pressure Utility Locating Machine (Daylighting Machine); Manhoist; Material or Stack Hoist; Mechanic or Welder; Railroad Track Rail Leveling Machine, Tie Placer, Extractor, Tamper, Stone Leveler or Rehabilitation Equipment; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yd or More Capacity; Screed (Milling Machine); Sideboom; Straddle Carrier or Travel Lift; Tining or Curing Machine; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type Having Over 8-Inch Bucket). Future Increase(s): Add \$1/hr on 6/2/2013.	32.39	18.46	50.85
512	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Finishing Machine (Road Type); Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Grout Pump; Hoist (Tugger, Automatic); Industrial Locomotives; Jeep Digger; Lift Slab Machine; Mulcher; Roller (Rubber Tire, 5 Ton or Under); Screw or Gypsum Pumps; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Stump Chipper; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames.	35.59	17.59	53.18
513	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Boatmen (NOT Performing Work on the Great Lakes); Boiler (Temporary Heat); Crusher, Screening or Wash Plant; Elevator; Farm or Industrial Type Tractor; Fireman (Asphalt Plant NOT Performing Work on the Great Lakes); Forklift; Generator (&/or 150 KW or Over); Greaser; Heaters (Mechanical); Loading Machine (Conveyor); Oiler; Post Hole Digger or Driver; Prestress Machine; Pump (3 Inch or Over) or Well Points; Refrigeration Plant or Freeze Machine; Robotic Tool Carrier (With or Without Attachments); Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$1/hr on 6/2/2013.	29.69	18.46	48.15
514	Gas or Utility Pipeline, Except Sewer & Water (Primary Equipment). Future Increase(s): Add \$2/hr on 1/1/2013.	34.89	20.59	55.48
515	Gas or Utility Pipeline, Except Sewer & Water (Secondary Equipment). Future Increase(s): Add \$1.60/hr on 06/01/2013; Add \$1.60/hr on 06/01/2014; Add \$1.65/hr on 06/01/2015.	31.32	17.95	49.27

516	Fiber Optic Cable Equipment	26.69	16.65	43.34
	Future Increase(s):			
	Add \$1.75/hr on 02/01/2013; Add \$1.75/hr on 02/01/2014			

SEWER, WATER OR TUNNEL CONSTRUCTION
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Includes those projects that primarily involve public sewer or water distribution, transmission or collection systems and related tunnel work (excluding buildings).

SKILLED TRADES

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
103	Bricklayer, Blocklayer or Stonemason Future Increase(s): Add \$1.45/hr on 6/01/2013 Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	35.80	16.87	52.67
105	Carpenter Future Increase(s): Add \$.75/hr on 6/3/2013. Add \$1.25/hr on 6/2/2014. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	32.93	19.81	52.74
107	Cement Finisher	30.68	16.75	47.43
109	Electrician Future Increase(s): Add \$1.60/hr on 6/1/2013. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	32.20	21.71	53.91
111	Fence Erector	22.50	3.65	26.15
116	Ironworker	30.90	19.11	50.01
118	Line Constructor (Electrical)	37.05	16.94	53.99
125	Pavement Marking Operator	28.10	15.00	43.10
126	Piledriver	30.66	15.31	45.97
130	Plumber	36.97	17.66	54.63
135	Steamfitter	32.01	15.93	47.94
137	Teledata Technician or Installer	21.26	11.75	33.01
143	Tuckpointer, Caulker or Cleaner	30.76	16.42	47.18
144	Underwater Diver (Except on Great Lakes)	37.45	19.45	56.90
146	Well Driller or Pump Installer	21.00	2.23	23.23

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	28.24	15.10	43.34
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	29.64	14.64	44.28
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.94	13.57	39.51
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.08	12.96	37.04
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	11.90	33.65

TRUCK DRIVERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
201	Single Axle or Two Axle	25.87	13.00	38.87
203	Three or More Axle	22.50	11.90	34.40
204	Articulated, Euclid, Dumptor, Off Road Material Hauler	31.89	17.98	49.87
205	Pavement Marking Vehicle	20.85	11.02	31.87
207	Truck Mechanic	23.50	11.93	35.43

LABORERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
301	General Laborer Future Increase(s): Add \$.80/hr. on 06/03/2013 Premium Increase(s): Add \$.20 for blaster, bracer, manhole builder, caulker, bottomman and power tool; Add \$.55 for pipelayer; Add \$1.00 for 0-15 lbs. compressed air; Add \$2.00 for 15-30 lbs. compressed air; Add \$3.00 for over 30 lbs. compressed air.	25.28	13.89	39.17
303	Landscaper	26.92	12.51	39.43
304	Flagperson or Traffic Control Person	23.55	13.45	37.00
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	17.81	12.22	30.03
314	Railroad Track Laborer	23.41	15.14	38.55

**HEAVY EQUIPMENT OPERATORS
SEWER, WATER OR TUNNEL WORK**

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
521	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Master Mechanic; Pile Driver. Future Increase(s): Add \$1/hr on 6/2/2013. Premium Increase(s): Add \$.50/hr for >200 Ton / Add \$1/hr at 300 Ton / Add \$1.50 at 400 Ton / Add \$2/hr at 500 Ton & Over.	35.12	18.46	53.58
522	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Boring Machine (Directional); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump (Over 46 Meter), Concrete Conveyor (Rotec or Bidwell Type); Concrete Spreader & Distributor; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity of 4,000 Lbs. & Under; Dredge (NOT Performing Work on the Great Lakes); Milling Machine; Skid Rig; Telehandler; Traveling Crane (Bridge Type). Premium Increase(s): Add \$.25/hr for operating tower crane.	35.36	19.15	54.51
523	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Boring Machine (Horizontal or Vertical); Bulldozer or Endloader (Over 40 hp); Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Hydro-Blaster (10,000 PSI or Over); Manhoist; Material or Stack Hoist; Mechanic or Welder; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yd or More Capacity; Screed (Milling Machine); Sideboom; Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type Having Over 8-Inch Bucket). Premium Increase(s): Add \$.25/hr for operating tower crane.	34.41	19.15	53.56

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
524	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Finishing Machine (Road Type); Environmental Burner; Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Hoist (Tugger, Automatic); Grout Pump; Jeep Digger; Lift Slab Machine; Mulcher; Power Subgrader; Pump (3 Inch or Over) or Well Points; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Screw or Gypsum Pumps; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Stump Chipper; Tining or Curing Machine; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames.	31.89	18.11	50.00
525	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Crusher, Screening or Wash Plant; Farm or Industrial Type Tractor; Fireman (Asphalt Plant NOT Performing Work on the Great Lakes); Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Loading Machine (Conveyor); Post Hole Digger or Driver; Refrigeration Plant or Freeze Machine; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack.	30.51	19.99	50.50
526	Boiler (Temporary Heat); Forklift; Greaser; Oiler.	30.44	19.10	49.54
527	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	37.45	19.45	56.90
528	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	37.45	19.45	56.90
529	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	27.75	19.15	46.90
530	Work Performed on the Great Lakes Including Deck Equipment Operator; Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under), Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	27.75	19.15	46.90

LOCAL STREET OR MISCELLANEOUS PAVING CONSTRUCTION
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Includes roads, streets, alleys, trails, bridges, paths, racetracks, parking lots and driveways (except residential or agricultural), public sidewalks or other similar projects (excluding projects awarded by the Wisconsin Department of Transportation).

SKILLED TRADES

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
103	Bricklayer, Blocklayer or Stonemason	33.00	15.00	48.00
105	Carpenter	30.16	15.31	45.47
107	Cement Finisher	30.52	14.19	44.71
109	Electrician	30.51	21.77	52.28
111	Fence Erector	22.50	3.65	26.15
116	Ironworker	28.03	21.97	50.00
118	Line Constructor (Electrical)	37.05	16.94	53.99
124	Painter	21.47	10.37	31.84
125	Pavement Marking Operator	28.10	15.00	43.10
126	Piledriver	30.66	15.31	45.97
133	Roofer or Waterproofer	20.00	7.66	27.66
137	Teledata Technician or Installer	21.26	11.75	33.01
143	Tuckpointer, Caulker or Cleaner	30.76	16.42	47.18
144	Underwater Diver (Except on Great Lakes)	37.45	19.45	56.90
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	29.64	14.55	44.19
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	30.60	14.64	45.24
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.94	13.57	39.51
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.08	12.96	37.04
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	11.90	33.65

TRUCK DRIVERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
201	Single Axle or Two Axle	25.87	13.00	38.87
203	Three or More Axle	23.50	11.93	35.43
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1/hr on 6/2/2013.	32.39	18.46	50.85
205	Pavement Marking Vehicle	20.85	11.02	31.87
206	Shadow or Pilot Vehicle	25.87	13.00	38.87
207	Truck Mechanic	23.50	11.93	35.43

LABORERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
301	General Laborer Future Increase(s): Add \$.75/hr. on 06/03/2013 Premium Increase(s): Add \$1.00/hr for certified welder and pipelayer; Add \$.25/hr for mason tender.	24.21	13.88	38.09
303	Landscaper Future Increase(s): Add \$1.70/hr on 6/1/13; Add \$1.60/hr on 6/1/14. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).	28.07	13.90	41.97
304	Flagperson or Traffic Control Person Future Increase(s): Add \$1.70/hr on 6/1/2013; Add \$1.60/hr on 6/1/2014. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.	24.70	13.90	38.60

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	17.81	12.22	30.03
314	Railroad Track Laborer	23.41	15.14	38.55

**HEAVY EQUIPMENT OPERATORS
CONCRETE PAVEMENT OR BRIDGE WORK**

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
541	Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic. Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm .	35.22	19.90	55.12
542	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity of 4,000 Lbs. & Under; Crane, Tower Crane Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm .	34.72	19.90	54.62

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
543	<p>Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfg.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Boring Machine (Directional, Horizontal or Vertical); Bridge (Bidwell) Paver; Bulldozer or Endloader; Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A-Frames.</p> <p>Future Increase(s): Add \$1/hr on 6/2/2013.</p>	32.92	18.46	51.38
544	<p>Backfiller; Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine.</p> <p>Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.</p> <p>Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm.</p>	33.96	19.90	53.86
545	<p>Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oilier; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack.</p>	31.89	18.19	50.08

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
546	Fiber Optic Cable Equipment.	25.74	15.85	41.59
547	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	37.45	19.45	56.90
548	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	37.45	19.45	56.90
549	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or more); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	27.75	19.15	46.90
550	Work Performed on the Great Lakes Including Deck Equipment Operator; Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	27.75	19.15	46.90

**HEAVY EQUIPMENT OPERATORS
ASPHALT PAVEMENT OR OTHER WORK**

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
551	Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self Erecting Tower Crane With a Lifting Capacity of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads and/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic.	34.62	17.98	52.60
552	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity Of 4,000 Lbs. & Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add \$1/hr on 6/2/2013.	32.92	18.46	51.38

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
553	Air, Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Backhoe (Track Type) Having a Mfr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boring Machine (Directional, Horizontal or Vertical); Bulldozer or Endloader; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Laser/Screed; Concrete Slipform Placer Curb & Gutter Machine; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Railroad Track Rail Leveling Machine, Tie Placer, Extractor, Tamper, Stone Leveler or Rehabilitation Equipment; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A-Frames. Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.	27.15	18.70	45.85
554	Backfiller; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self-Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler. Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.	27.15	18.70	45.85
555	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.	33.67	19.55	53.22
556	Fiber Optic Cable Equipment.	25.74	15.85	41.59

***** END OF RATES *****

**Consolidated List of Debarred Contractors
Prepared and Issued By
State of Wisconsin
Department of Workforce Development**

September 1, 2012

This list has been prepared in accordance with the provisions of s. 66.0903(12), s. 66.0904(10) and s. 103.49(7), Stats. and Chapter DWD 294 of the Wisconsin Administrative Code. All contractors on this list were found to have committed a "debarable offense" related to certain labor standard provisions determined or established for a state or local public works project or publicly funded private construction project. No state agency, local governmental unit or owner or developer may knowingly solicit bids from, negotiate with or award any contracts to or approve or allow any subcontracts with a debarred contractor, including all divisions, affiliates or other organizational elements of such contractor that are engaged in construction business activities, until the debarment is terminated. The name of each debarred contractor must remain on this list for a period of three (3) years from the termination date indicated below. The contractor is, however, only "debarred" from the "effective date" through the "termination date" indicated for that contractor. Questions regarding this list should be addressed to Julie Eckenwalder, Equal Rights Division, P. O. Box 8928, Madison, WI 53708 or call (608) 266-3148. Deaf, hearing or speech-impaired callers may contact the department by calling its TDD number (608) 264-8752.

<u>Name of Contractor</u>	<u>Address</u>	<u>Effective Date</u>	<u>Termination Date</u>	<u>Cause Code</u>	<u>Date of Violation(s)</u>	<u>Limitations/Deviations</u>
Abel, Mike	See, Abel Electric, Inc					
Abel Electric, Inc	3385 Belmar Rd Green Bay, WI 54313	9/1/12	8/31/2015	1	2011	None
Atkins, Scott	See, Freedom Insulation, Inc					
Boecker, Roger	See, R-Way Pumping, Inc					
Castlerock Commercial Construction, Inc	PO Box 11699 Milwaukee, WI 53211-0699	2/1/12	1/31/15	1, 2 and 4	2009 & 2010	None
Custom Heating & Air LLC	283 Tony Lane Green Bay, WI 54304	12/1/06	11/30/09	1, 2 and 4	2003 & 2004	None
Dem/Ex Group, Inc	805 S Adams St Manito, IL 61546	12/1/11	11/30/14	1 and 2	2010	None
Fisher, Ed &/or Fisher, Rhonda	See, Dem/Ex Group, Inc					
Freedom Insulation, Inc	117925 219 th Ave Chippewa Falls, WI 54729	9/1/11	8/31/14	1	2008- 2010	None

<u>Name of Contractor</u>	<u>Address</u>	<u>Effective Date</u>	<u>Termination Date</u>	<u>Cause Code</u>	<u>Date of Violation(s)</u>	<u>Limitations/Deviations</u>
JT Roofing, Inc	350 Tower Dr Saukville, WI 53080	6/1/11	5/31/15	1, 2 and 4	2007 & 2008	None
Jinkins, Richard	See, Castlerock Commercial Construction, Inc.					
Joseph Stoller Company	N8426 Hwy 42 Algoma, WI 54201	2/1/07	1/31/10	1 and 2	2004 & 2005	None
Keiver, David	See, Custom Heating & Air LLC					
Ofstie, Darin	See, Precision Excavating and Grading, LLC					
Precision Excavating and Grading, LLC or Precision Excavating Enterprises, LLC	2104 Pierce Saint Croix Rd Baldwin, WI 54002	5/1/11	4/30/14	1, 2 and 4	2006- 2008	None
R-Way Pumping, Inc	3023 Lake Maria Rd Freeport, MN 56331	3/1/12	2/28/15	1, 2 and 4	2008	None
Stoller Enterprises LLC	N8426 Hwy 42 Algoma, WI 54201-9552	2/1/2007	1/31/10	1 and 2	2005 to 2006	None
Stoller, Joseph	See, Joseph Stoller Company					
Stoller, Patrick J	See, Stoller Enterprises LLC					
Thull, Gerald T	See, JT Roofing, Inc.					

Cause Code: 1 = Failure to Pay Straight Time 2 = Failure to Pay Overtime 3 = Kickback 4 = Payroll Records.

Disclosure of Ownership

The statutory authority for the use of this form is prescribed in Sections 66.0903(12)(d), 66.0904(10)(d) and 103.49(7)(d), Wisconsin Statutes.

The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04(1) (m), Wisconsin Statutes]

- (1) On the date a contractor submits a bid to or completes negotiations with a state agency, local governmental unit, or developer, investor or owner on a project subject to Section 66.0903, 66.0904 or 103.49, Wisconsin Statutes, the contractor shall disclose to such state agency, local governmental unit, or developer, investor or owner, the name of any "other construction business", which the contractor, or a shareholder, officer or partner of the contractor, owns or has owned within the preceding three (3) years.
- (2) The term "other construction business" means any business engaged in the erection, construction, remodeling, repairing, demolition, altering or painting and decorating of buildings, structures or facilities. It also means any business engaged in supplying mineral aggregate, or hauling excavated material or spoil as provided by Sections 66.0903(3), 66.0904(2), 103.49(2) and 103.50(2), Wisconsin Statutes.
- (3) This form must ONLY be filed, with the state agency project owner, local governmental unit project owner, or developer, investor or owner of a publicly funded private construction project that will be awarding the contract, if **both (A) and (B) are met**.
- (A) The contractor, or a shareholder, officer or partner of the contractor:
- (1) Owns at least a 25% interest in the "other construction business", indicated below, on the date the contractor submits a bid or completes negotiations.
 - (2) Or has owned at least a 25% interest in the "other construction business" at any time within the preceding three (3) years.
- (B) The Wisconsin Department of Workforce Development (DWD) has determined that the "other construction business" has failed to pay the prevailing wage rate or time and one-half the required hourly basic rate of pay, for

Other Construction Business

Name of Business			
Street Address or P O Box	City	State	Zip Code
Name of Business			
Street Address or P O Box	City	State	Zip Code
Name of Business			
Street Address or P O Box	City	State	Zip Code
Name of Business			
Street Address or P O Box	City	State	Zip Code

I hereby state under penalty of perjury that the information, contained in this document, is true and accurate according to my knowledge and belief.

Print the Name of Authorized Officer			
Signature of Authorized Officer		Date Signed	
Name of Corporation, Partnership or Sole Proprietorship			
Street Address or P O Box	City	State	Zip Code

If you have any questions call (608) 266-6861

Prime Contractor Affidavit of Compliance With Prevailing Wage Rate Determination

Authorization for this form is provided under Sections 66.0903(9)(c), 66.0904(7)(c) and 103.49(4r)(c) Wisconsin Statutes.

The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04(1)(m), Wisconsin Statutes].

This form must **ONLY** be filed with the **Awarding Agency** indicated below.

State Of))SS County Of)	Project Name	
	DWD Determination Number	Project Number (if applicable)
	Date Determination Issued	Date of Contract
	Awarding Agency	
		Date Work Completed

After being duly sworn, the person whose name and signature appears below hereby states under penalty of perjury that

- **I am** the duly authorized officer of the corporation, partnership, sole proprietorship or business indicated below and have recently completed all of the work required under the terms and conditions of a contract with the above-named awarding agency and make this affidavit in accordance with the requirements set forth in Section 66.0903(9)(c), 66.0904(7)(c) or 103.49(4r)(c), Wisconsin Statutes and Chapter DWD 290 of the Wisconsin Administrative Code in order to obtain FINAL PAYMENT from such awarding agency.
- **I have** fully complied with all the wage and hour requirements applicable to this project, including all of the requirements set forth in the prevailing wage rate determination indicated above which was issued for such project by the Department of Workforce Development on the date indicated above.
- **I have** received the required affidavit of compliance from each of my agents and subcontractors that performed work on this project and have listed each of their names and addresses on page 2 of this affidavit.
- **I have** full and accurate records that clearly indicate the name and trade or occupation of every worker(s) that I employed on this project, including an accurate record of the hours worked and actual wages paid to such worker(s).
- **I will** retain the records and affidavit(s) described above and make them available for inspection for a period of at least three (3) years from the completion date indicated above at the address indicated below and shall not remove such records or affidavit(s) without prior notification to the awarding agency indicated above.

Name of Corporation, Partnership, Sole Proprietorship, Business, State Agency or Local Governmental Unit				
Street Address	City	State	Zip Code	Telephone Number
Print Name of Authorized Officer			Date Signed	
Signature of Authorized Officer				

List of Agents and Subcontractors

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		

Agent or Subcontractor Affidavit of Compliance With Prevailing Wage Rate Determination

Authorization for this form is provided under Sections 66.0903(9)(b), 66.0904(7)(b) and 103.49(4r)(9b), Wisconsin Statutes. The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.

Personal information you provide may be used for secondary purposes [Privacy Law, Section 15.04(1)(m), Wisconsin Statutes].

This form must **ONLY** be filed with the **Awarding Contractor** indicated below.

State Of _____))SS County Of _____)	Project Name	
	DWD Determination Number	Project Number (if applicable)
	Date Determination Issued	Date of Subcontract
	Awarding Contractor	
	Date Work Completed	

After being duly sworn, the person whose name and signature appears below hereby states under penalty of perjury that

- **I am** the duly authorized officer of the corporation, partnership, sole proprietorship or business indicated below. We have recently completed all of the work required under the terms and conditions of a subcontract with the above-named awarding contractor. We make this affidavit in accordance with the requirements set forth in Section 66.0903(9)(b), 66.0904(7)(b) or 103.49(4r)(b), Wisconsin Statutes and Chapter DWD 290 of the Wisconsin Administrative Code in order to obtain FINAL PAYMENT from such awarding contractor.
- **I have** fully complied with the entire wage and hour requirements applicable to this project, including all of the requirements set forth in the prevailing wage rate determination indicated above which was issued for such project by the Department of Workforce Development on the date indicated above.
- **I have** received the required affidavit of compliance from each of my agents and subcontractors that performed work on this project and have listed each of their names and addresses on page 2 of this affidavit.
- **I have** full and accurate records that clearly indicate the name and trade or occupation of every worker(s) that I employed on this project, including an accurate record of the hours worked and actual wages paid to such worker(s).
- **I will** retain the records and affidavit(s) described above and make them available for inspection for a period of at least three (3) years from the completion date indicated above at the address indicated below and shall not remove such records or affidavit(s) without prior notification to the awarding contractor.

Name of Corporation, Partnership, Sole Proprietorship, Business, State Agency or Local Governmental Unit				
Street Address or PO Box	City	State	Zip Code	Telephone Number ()
Print Name of Authorized Officer			Date Signed	
Authorized Officer Signature				

List of Agents and Subcontractors

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ()			Telephone Number ()		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ()			Telephone Number ()		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ()			Telephone Number ()		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ()			Telephone Number ()		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ()			Telephone Number ()		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ()			Telephone Number ()		

If you have any questions call (608) 266-6861

Request to Employ Subjourneyperson

The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes. Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04(1)(m), Wisconsin Statutes).

The employer indicated below requests that the Department of Workforce Development (DWD) determine the prevailing wage rate(s) and related qualifications to enable such employer to use a subjourneyperson(s) on the following prevailing wage project, in accordance with the provisions of Section DWD 290.025, Wisconsin Administrative Code.

1. Name of Project Appearing on the Project Determination			
County	City, Village or Town		
DWD Project Determination Number	Project Number (if applicable)		
2. Job Classification(s) for which you request a subjourney rate (i.e., carpenter, electrician, plumber, etc.)			
a.	b.		
c.	d.		
3. Employer Name (Print)			
Address	City	State	Zip Code
Telephone Number ()			
Email address (if you prefer to receive your response via email)	Fax Number (if you prefer to receive your response via fax) ()		

READ CAREFULLY: I understand that this request is ONLY applicable to the project and job classification(s) listed above and that subjourney employees primarily work under the direction of and assist a skilled trade employee by frequently using the tools of a skilled trade and will NOT regularly perform the duties of a general laborer, heavy equipment operator or truck driver. If the subjourney employee regularly performs the work of a different trade or occupation, he/she will be compensated for such work at the applicable journeyperson prevailing wage rate. I agree to compensate subjourney employees in strict accordance with the directions received from the DWD.

Requester Signature	Date Signed
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MAIL the completed request to:
EQUAL RIGHTS DIVISION, LABOR STANDARDS BUREAU
PO BOX 8928, MADISON WI 53708
OR
FAX the completed request to: (608) 267-0310 / **DO NOT e-mail your request.**
Call (608) 266-6861 for assistance in completing this form.

PREVAILING WAGE – Public Entity Project Owners

Any public works project that has a total estimated project cost that equals or exceeds single-trade or multiple-trade project thresholds requires a prevailing wage rate determination issued by the Department of Workforce Development (DWD). Public works include erecting, constructing, remodeling, repairing, demolishing, alterations, painting and decorating projects for a local governmental unit or state agency. State law excludes minor service or maintenance work, warranty work, or work under a supply-and-installation contract. There is a statutory definition for each of these exclusions. The prevailing wage law that applies to local governmental units is §66.0903, Wis. Stats. The prevailing wage law that applies to state agencies is §103.49, Wis. Stats. The applicable administrative rules for all public entities are DWD 290 and DWD 294, Wis. Adm. Code.

Thresholds

A "single-trade project of public works" means a project in which a single trade accounts for 85% or more of the total labor cost of the project. The single trade threshold is \$48,000.

A "multiple-trade project of public works" means a project in which no single trade accounts for 85% or more of the total labor cost of the project.

(a) The multiple-trade threshold is \$100,000, unless a municipality falls under the description in (b).

(b) The multiple-trade threshold of \$234,000 applies to public works projects erected, constructed, repaired, remodeled, or demolished by a private contractor for •a city or village with a population less than 2500 or •a town.

Effective July 1, 2011, a local governmental unit or state agency that has a public works project that equals or exceeds the prevailing wage thresholds must do all of the following:

- Request a prevailing wage rate determination for the project from DWD at least 30 days before soliciting bids or negotiating contracts. An Application for Prevailing Wage Rate Determination is available on the DWD website: http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm

To avoid waiting for a project determination use the on-line application system that permits the user to generate a determination immediately and save all documents in PDF form to the user's computer. Use this project determination on line application at the following address:

- Tell potential contractors the project is subject to state prevailing wage law when soliciting bids.
- Include the prevailing wage rate determination in the construction contract, or if there is no written contract, provide a copy of the project determination to each prime contractor.
- Award contracts to contractors who do *not* appear on the “Consolidated List of Debarred Contractors.”
- Post the prevailing wage rate determination on the project site. (This document is often referred to as “the white sheet.”)
- Notify project contractors that if DWD finds that a contractor violated the prevailing wage law, DWD will assess liquidated damages of 100% of the wages owed to employees.
- Obtain an Affidavit of Compliance from each prime contractor before making final payment for the project.

If the total estimated cost of the project exceeds the prevailing wage thresholds, a local governmental unit or state agency also must obtain a prevailing wage rate determination under the following circumstances:

- when a completed facility is leased, purchased, lease-purchased or otherwise acquired by or dedicated to a public entity in lieu of the public entity contracting for the project,
- when one public entity does work for another public entity,
- when a *private* entity will construct a road, street, bridge, sanitary sewer or water main project and dedicate it to a local governmental unit or the state for its ownership or maintenance (except for some residential subdivisions).

For more information, visit the prevailing wage website: http://dwd.wisconsin.gov/er/prevaling_wage_rate/default.htm. For further assistance, call the Equal Rights Division at 608-266-6861 and ask for prevailing wage.

PREVAILING WAGE – Contractors

Any public works project that has a total estimated project cost that equals or exceeds prevailing wage project thresholds requires a prevailing wage rate determination issued by the Department of Workforce Development (DWD). Public works include erecting, constructing, remodeling, repairing, demolishing, alterations, painting and decorating projects for a local governmental unit or state agency. State law excludes minor service or maintenance work, warranty work, or work under a supply-and-installation contract. There is a statutory definition for each of these exclusions. The prevailing wage law that applies to local governmental units and their contractors is §66.0903, Wis. Stats. The prevailing wage law that applies to state agencies and their contractors is §103.49, Wis. Stats. The applicable administrative rules for all prevailing wage projects are DWD 290 and DWD 294, Wis. Adm. Code. These laws include provisions that apply to all contractors and subcontractors working on prevailing wage projects.

Effective July 1, 2011, any contractor or subcontractor working on a local governmental unit or state agency's public works project that equals or exceeds current prevailing wage project thresholds must do all of the following:

- Receive and review the project's prevailing wage rate determination (i.e., white sheet).
- Tell subcontractors the project is subject to state prevailing wage law and include the prevailing wage rate determination in the construction contract, or if there is no written contract, provide a copy of the project determination to each subcontractor.
- Hire subcontractors who do *not* appear on the "Consolidated List of Debarred Contractors."
- Notify subcontractors that if DWD finds that a contractor or subcontractor violated the prevailing wage law, DWD will assess liquidated damages of 100% of the wages owed to employees.

- Apply to DWD for subjourney wage rates prior to employing these individuals on the project.
- Receive and retain a completed Affidavit of Compliance from each subcontractor brought on to the project before providing final payment to those subcontractors.
- Submit a completed Affidavit of Compliance to the contractor who brought the subcontractor on to the project before receiving final payment for the project.
- Maintain payroll records for 3 years that comply with §§66.0903(10)(a) or 103.49(5)(a), Stats. and DWD 274.06.
- Respond to requests from DWD or the project owner to provide payroll records and/or respond to prevailing wage complaints filed by employees or third parties.

For more information, visit the prevailing wage website: http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm. For further assistance, call the Equal Rights Division at 608-266-6861 and ask for prevailing wage.

**SECTION 011000
SUMMARY**

PART 1 GENERAL

1.01 PROJECT

- A. Project Name: Justice Center 2014 Roof Replacement, Roof Areas 1 - 4.
- B. Owner's Name: Outagamie County.
- C. The Project consists of the removal of the existing stone ballast and single-ply membrane and subsequent replacement on the roof areas defined within the scope of this project and related work.

1.02 CONTRACT DESCRIPTION

- A. Contract Type: A single prime contract based on a Stipulated Price.

1.03 SCOPE OF WORK

- A. The Work shall include items shown on included Construction Drawings and related work.
- B. Contractor shall replace existing ballast stone and re-use existing ballast pavers.
- C. Contractors wishing to utilize existing tie-back fall protection anchor points will be required to test and certify the anchors, prior to the start of the project and use of the anchors. The cost of this testing shall be included in the Bid Sum.
 - 1. Testing Service Provider (providing contact information only; contractor is free to use any qualified testing service).
 - a. ECS Midwest, LLC
 - Eric R. Borys EIT
 - P: 847-777-0340
 - F: 847-279-0369
 - C: 847-456-8806
 - www.ecslimited.com
 - Richard Scruton PE, CEI, MBA
 - P: 847-777-0340
 - F: 847-279-0369

1.04 WORK BY OWNER

- A. The Owner will be responsible for re-certification of lightning protection and re-positioning of roof mounted antennae.

1.05 OWNER OCCUPANCY

- A. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.
- B. Schedule the Work to accommodate Owner occupancy.

END OF SECTION

SECTION 012000
PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Procedures for preparation and submittal of applications for progress payments.

1.02 SCHEDULE OF VALUES

- A. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit sample to Consultant for approval.
- B. Submit AIA form G703 - Continuation Sheet.

1.03 APPLICATIONS FOR PROGRESS PAYMENTS

- A. Payment Period: Submit at intervals agreed upon by Owner.
- B. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit sample to Consultant for approval.
- C. Submit AIA form G702 - Application and Certificate for Payment.
- D. Contractor's invoice.
- E. Execute certification by signature of authorized officer.
- F. Submit one electronic copy of each Application for Payment to the Consultant:
- G. Include the following with the application:
 - 1. Partial lien waivers.
- H. Submit to:
 - Specialty Engineering Group, LLC
 - Bruce Flater
 - email: bflater@str-seg.com

1.04 APPLICATION FOR FINAL PAYMENT

- A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments, and sum remaining due.
- B. Application for Final Payment will not be considered until the following have been accomplished:
 - 1. All closeout procedures specified in Section 017000.

END OF SECTION

**SECTION 012100
ALLOWANCES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. (Insulation replacement) Allowances.

1.02 ALLOWANCES

- A. Contractor to include an allowance of 450 board feet of tapered expanded polystyrene (EPS) insulation. The unused portion of the allowance will be deducted by unit price from the final contract amount.
- B. Contractor to include an allowance of 450 board feet of tapered extruded polystyrene (XPS) insulation. The unused portion of the allowance will be deducted by unit price from the final contract amount.
- C. Contractor to include an allowance of 200 square feet of 1" perlite insulation. The unused portion of the allowance will be deducted by unit price from the final contract amount.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 012200

UNIT PRICES

PART 1 GENERAL

1.01 COSTS INCLUDED

- A. Unit Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.

1.02 MEASUREMENT OF QUANTITIES

- A. Take all measurements and compute quantities. Measurements and quantities will be verified by Consultant.
- B. Assist by providing necessary equipment, workers, and survey personnel as required.

1.03 PAYMENT

- A. Payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities of Work that is incorporated in or made necessary by the Work and accepted by the Consultant, multiplied by the unit price.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

**SECTION 012300
ALTERNATES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Description of alternates.
- B. Procedures for pricing alternates.

1.02 RELATED REQUIREMENTS

- A. Document 004323 - Alternates Form: List of alternatives as supplement to Bid Form.

1.03 ACCEPTANCE OF ALTERNATES

- A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted alternates will be identified in the Owner-Contractor Agreement.
- B. Acceptance of Alternate #1 can be independent of Alternate #2. Acceptance of Alternate #2 shall assume acceptance of Alternate #1.

1.04 SCHEDULE OF ALTERNATES

- A. Alternate No. #1 - Change membrane thickness to 60-mil:
- B. Alternate No. #2 - Change specified manufacturer warranty duration to twenty (20) years.:

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 013000
ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Preconstruction meeting.
- B. Progress meetings.
- C. Construction progress schedule.
- D. Submittals for review, information, and project closeout.
- E. Number of copies of submittals.
- F. Submittal procedures.

1.02 RELATED REQUIREMENTS

- A. Document 007200 - General Conditions: Duties of the Construction Manager.
- B. Document 007300 - Supplementary Conditions: Duties of the Construction Manager.
- C. Section 017000 - Execution and Closeout Requirements: Additional coordination requirements.

1.03 PROJECT COORDINATION

- A. Cooperate with the Owner's representative in allocation of mobilization areas of site; for site access, traffic, and parking facilities.
- B. During construction, coordinate use of site and facilities through the Owner's representative.
- C. Comply with instructions of the Owner's representative for use of temporary utilities and construction facilities.
- D. Make the following types of submittals to Consultant:
 - 1. Requests for interpretation.
 - 2. Requests for substitution.
 - 3. Shop drawings, product data, and samples.
 - 4. Test and inspection reports.
 - 5. Manufacturer's instructions and field reports.
 - 6. Applications for payment and change order requests.
 - 7. Progress schedules.
 - 8. Coordination drawings.
 - 9. Closeout submittals.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRECONSTRUCTION MEETING

- A. Consultant will schedule a meeting after Notice of Award.
- B. Attendance Required:
 - 1. Consultant.
 - 2. Contractor.
- C. Agenda:
 - 1. Designation of personnel representing the parties to Contract, Owner and Consultant.
 - 2. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
 - 3. Scheduling.
- D. Minutes of the meeting will be prepared and distributed electronically within five (5) days after meeting to all parties involved in project.

3.02 PROGRESS MEETINGS

- A. Consultant will schedule and administer meetings throughout progress of the Work as required.

- B. Attendance Required: Job superintendent, major Subcontractors and suppliers, Owner, Consultant, as appropriate to agenda topics for each meeting.
- C. Agenda:
 - 1. Review minutes of previous meetings.
 - 2. Review of Work progress.
 - 3. Field observations, problems, and decisions.
 - 4. Identification of problems that impede, or will impede, planned progress.
 - 5. Review of submittals schedule and status of submittals.
 - 6. Maintenance of progress schedule.
 - 7. Corrective measures to regain projected schedules.
 - 8. Planned progress during succeeding work period.
 - 9. Maintenance of quality and work standards.
 - 10. Effect of proposed changes on progress schedule and coordination.
 - 11. Other business relating to Work.
- D. Minutes of the meeting will be prepared and distributed electronically within five (5) days after meeting to all parties involved in project.

3.03 SUBMITTALS FOR REVIEW

- A. In addition to the submittal items that may be requested in individual sections, submit the following for review:
 - 1. Product materials list.
 - 2. Project Contact list.
 - 3. Tentative project schedule.
 - 4. Metal color chart for selection.
 - 5. Product MSDS sheets (electronic): Deliver directly to Owner.
- B. Submit to Consultant for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.
- C. Samples will be reviewed only for aesthetic, color, or finish selection.

3.04 SUBMITTALS FOR PROJECT CLOSEOUT

- A. When the following are specified in individual sections, submit them at project closeout:
 - 1. See Execution and Closeout Requirements section.

3.05 NUMBER OF COPIES OF SUBMITTALS

- A. Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.

3.06 SUBMITTAL PROCEDURES

- A. Transmit each submittal electronically via email bflater@str-seg.com.
- B. Schedule submittals to expedite the Project, and coordinate submission of related items. Submission shall be within one week of intended Project start.
- C. SAMPLES
 - 1. Provide samples as requested. Install required samples on site; do not submit samples to Consultant.

END OF SECTION

SECTION 014000
QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 REGULATORY REQUIREMENTS

- A. Comply with all applicable Federal, State and local codes and ordinances in force at the project site.
- B. Apply, obtain and pay for required local and regional building permits and fees to legally execute the Work of this Contract.
- C. Airborne asbestos fibers, lead and PCB compounds, if encountered, have been determined to be hazardous to one's health. Compliance with all possible Federal, State and Local regulations as they relate to handling these materials is the Contractor's responsibility.

1.02 REFERENCES AND STANDARDS

- A. For products or workmanship specified by association, trades, or other consensus standards, comply with requirements of the standard, except when more stringent requirements are specified or are required by applicable codes.
- B. Conform to reference standard by date of issue current on date of Contract Documents, except where a specific date is established by code.
- C. Obtain copies of standards where required by product specification Sections.
- D. Should specified reference standard conflict with Contract Documents, request and receive clarification from the Consultant before proceeding.

1.03 INSTALLERS QUALITY ASSURANCE

- A. Contractor shall take complete charge of the work under this contract and coordinate the work of all trades on the project.
- B. Monitor quality control over suppliers, manufacturers, products, services, site conditions and workmanship to produce Work of specified quality.
- C. Comply with manufacturer's instructions including each step in sequence.
- D. Should manufacturer's instructions conflict with Contract Documents, request and receive clarification from the Consultant before proceeding.
- E. Perform Work by persons qualified to produce required and specified quality.
- F. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes or specified requirements indicate a higher standards or more precise workmanship.
- G. Verify that field measurements are as indicated on Shop Drawings or as instructed by the manufacturer.
- H. Contractor shall obtain complete data at the site and inspect surfaces that are to receive the Work before proceeding with fabricating, assembling, fitting or erecting the work. The Contractor shall be solely responsible for the accuracy of measurements and laying out of the work and shall make good any errors, defects due to faulty measurements taken, information obtained, layout, or failure to report discrepancies.
- I. The Contractor shall notify the Consultant in writing in case of discrepancies between existing work and drawings, and defects in such surfaces that are to receive the work. The Consultant will evaluate the notice and direct what remedial action will be taken.
- J. Starting of work implies acceptance of existing work or the work of others. Removal and replacement of work applied to defective surfaces in order to correct defects, shall be done at the expense of the Contractor who applied work to defective surfaces.
- K. Contractor shall apply, install, connect, erect, use, clean and condition manufactured articles, materials, and equipment as recommended by the manufacturer, unless specified to the contrary.

1.04 FIELD SAMPLES

- A. Provide field samples at the site as required by individual specification Sections.

1.05 TESTING AND INSPECTION SERVICES

- A. The Owner may request testing of materials and/or installation to determine compliance with the specification. The Contractor shall pay for all costs associated
- B. Testing shall be accomplished by a testing firm designated by the Owner. Tests shall be conducted using recognized standards. The Consultant shall evaluate and issue a report to the Owner and Contractor regarding the results and provide recommendation for resolution.
- C. If any test results indicate non-compliance with the specification the Contractor shall pay for all testing and associated reporting costs.
- D. If the Owner requires additional observation services by the Consultant or a different third party as the result of Contractor non-compliance with the specification, the Contractor shall pay for all costs associated with these services.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent Work.
- B. Verify that utility services are available, of the correct characteristics, and in the correct locations. If services are of incorrect characteristics or incorrect locations Contractor shall provide
- C. Examine and verify specific conditions described in individual specification Sections.

3.02 TOLERANCES

- A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Consultant before proceeding.
- C. Adjust products to appropriate dimensions; position before securing products in place.

3.03 MANUFACTURERS' FIELD SERVICES

- A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, as applicable, and to initiate instructions when necessary.
- B. Report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.

3.04 DEFECT ASSESSMENT

- A. Replace Work or portions of the Work not conforming to specified requirements.
- B. If, in the opinion of the Consultant, it is not practical to remove and replace the Work, the Consultant will direct an appropriate remedy or adjust payment.

END OF SECTION

SECTION 015000
TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 TEMPORARY UTILITIES

- A. Temporary Electricity
 - 1. Electric power is available on-site, free of charge for project purposes only. The Contractor shall provide all means of conveyance required for carrying out the work. Conveyance shall include integrated circuit breakers as not to interrupt Owner's service.
- B. Temporary Lighting
 - 1. Contractor shall supply any required supplemental lighting.
- C. Temporary Heat
 - 1. All heating required to protect the work from injury due to freezing during the construction period, shall be provided and paid for by the Contractor.
- D. Water Service
 - 1. Water for construction purposes is available through the existing facility, free of charge. Contractor shall provide all extensions from existing service to project work area as required.
- E. Telephone Service
 - 1. No separate field phone is required for the Consultant.
 - 2. Contractor's on-site foreman/superintendent shall have a mobile phone on during the duration of the project.
- F. Temporary Construction
 - 1. Erect and subsequently remove temporary construction as needed to accomplish work.
 - 2. Patch attachment to remaining structure in a manner acceptable to the Owner.
- G. Stairs and scaffolds
 - 1. The Contractor shall furnish and maintain equipment such as temporary stairs, fixed ladders, ramps, chutes, runways and the like as required for proper execution of work by all trades. Underlay scaffolds with planking to prevent uprights from resting directly on the underlying surface.
- H. Hoists
 - 1. If conditions warrant, the Contractor shall provide and maintain at least one material elevator or hoist. It shall be built in accordance with applicable state code requirements; shall be located a proper distance from exterior walls so as to not interfere with or otherwise adversely affect construction. The Contractor shall provide protection to prevent damage, stain or marring of permanent work and shall remove material hoist or elevator at such time as the construction dictates.
 - 2. Equipment and operations for this activity shall comply with applicable OSHA requirements. No material hoist may be used to transport personnel unless it meets OSHA requirements for that purpose.
- I. Field Office
 - 1. No temporary field office required.
- J. Parking
 - 1. Parking shall be in an area designated by the Owner.
- K. Cleaning and Waste Removal
 - 1. Contractor shall be responsible for all cleaning required within the technical sections of the specifications governing work under the Contractor's jurisdiction as well as for keeping all work areas, passageways, ramps, stairs and all other areas of the premises free of accumulation of surplus materials, rubbish, debris and scrap which may be caused by the Contractor's operations or that of the Subcontractors operation.
 - 2. Waste materials removed from the site shall be managed by the contractor and disposed of in accordance with all applicable laws, regulations, codes, rules, and standards.

3. Remove rubbish, debris and scrap promptly upon its accumulation. Remove at the end of each work day at a minimum.
 4. Combustible waste shall be removed immediately or stored in fire resistive containers until disposed of in an approved manner.
 5. In addition to the above, the Contractor shall be responsible for the general "broom" cleaning of the premises governing work under this Contract. The Contractor shall also perform "final" cleaning of all exposed surfaces to remove all foreign matter, spots, soil, construction dust, etc., so as to put the project in a complete and finished condition ready for acceptance and use intended.
 6. If rubbish and debris is not removed, or if surfaces are not cleaned as specified above, Owner reserves the right to have said work done by others and the related cost(s) will be deducted from monies due the Contractor.
- L. Protection
1. All structures and equipment shall be constructed, installed and operated with guards, controls and other devices in place.
 2. Provide, erect and maintain all required planking, barricades, guard rails, temporary walkways, etc., of sufficient size and strength necessary for protection of stored material and equipment; paved surfaces, walks, curbs, gutters and drives; streets adjacent to or within project area; adjoining property and all project work to prevent accidents to the public and the workmen at the job site.
 3. Existing and new materials either installed or stored on site and included within the scope of the project shall be maintained 100% weatherproof on a 24 hour daily basis, 7 days per week (24/7).
 4. Provide protection against rain, snow, wind, ice, storms, or heat so as to maintain all work, materials, apparatus, and fixtures, incorporated in the work or stored on the site, free from injury or damage. At the end of the day's work, cover all new work likely to be damaged. Remove snow and ice as necessary for safety and proper execution of the work.
 5. Take all necessary precautions to protect the Owners property as well as adjacent property, including trees, shrubs, buildings, sanitary and storm sewers, water piping, gas piping, electric conduit or cable, etc., from any and all damage which may result due to work on this project.
 6. Repair any work, damaged by failure to provide proper and adequate protection, to its original state to the satisfaction of the Owner or remove and replace with new work at the Contractor's expense.
 7. Store materials on raised platforms; a minimum of three (3) inches off of impervious surfaces (ie concrete); a minimum of six (6) inches off of pervious surfaces (ie grass). Protect with coverings while providing for adequate air circulation. Coverings to extend down sides completely. Manufacturers shrink wrap is not an acceptable covering.
- M. Signage
1. No project signage is required.
- N. Enclosures and Fencing
1. Contractor shall surround set-up area with a fence and provide additional fence as necessary to meet applicable safety regulations.
- O. Fire protection
1. The Contractor shall provide and maintain in working order during the entire construction period, such fire protective equipment and devices as required by applicable safety standards and as deemed necessary and suitable for any possible class or type of fire. Extinguishers shall be nonfreezing type such as A-B-C rated dry chemical, of not less than 10-pound capacity each.
- P. Security and Protection of Work
1. Watchpersons will not be furnished by the Owner. The Contractor shall precautionary measures, to include the furnishing of watchpersons if deemed necessary, to protect persons and property from damage or loss where the Contractor's work is involved.
- Q. Noise Control

1. Provide methods, means and facilities to minimize noise produced by construction operations.
- R. Dust Control
 1. Execute work by methods to minimize raising dust from construction operations.
- S. Fume and Odor Control
 1. Provide methods and means to minimize fume and odor produced by construction operations.

1.02 TEMPORARY SANITARY FACILITIES

- A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
- B. Maintain daily in clean and sanitary condition.

1.03 SPECIAL SITE CONDITIONS

- A. Allowable Hours of Construction: Monday - Friday 6:00a.m. to 8:00p.m.; Saturday and Sunday 6:00a.m. to 4:00p.m.

END OF SECTION

SECTION 016000
PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 PRODUCT DELIVERY REQUIREMENTS

- A. Contractor or the Contractor's authorized representative must be present to accept delivery of all equipment and material shipments. The Owner will not knowingly accept, unload or store anything delivered to the site for the Contractor's use. Inadvertent acceptance of delivered items by any representative or employee of the Owner shall not constitute acceptance or responsibility for any of the materials or equipment. It shall be the Contractor's responsibility to assume liability for equipment or material delivered to the job site.

1.02 PRODUCT STORAGE AND HANDLING REQUIREMENTS

- A. Contractor shall confine equipment, apparatus, storage of materials and operations to limits indicated on the drawings or agreed to by the Owner at the pre-construction meeting. Contractor shall not bring material onto the site until they are needed for the progress of the work.
- B. The storage of materials on the grounds shall be in strict accordance with the instructions stated within the technical sections. Storage of materials on the roof shall at no time exceed the design carrying capacity of the structural system.
- C. All hazardous materials, including motor fuels, shall be properly handled and contained to prevent spills or other releases. The Contractor shall develop and maintain a contingency plan to provide emergency response, containment, and cleanup of spills of hazardous materials resulting from contract activities. All spills and releases shall be reported to the Owner.

PART 2 PRODUCTS

2.01 EXISTING PRODUCTS

- A. Do not use materials and equipment removed from existing premises unless specifically required or permitted by the Contract Documents.
- B. Existing materials and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the Owner, or otherwise indicated as to remain the property of the Owner, become the property of the Contractor; remove from site.
- C. Reused Products: Reused products include materials and equipment previously used in this or other construction, salvaged and refurbished as specified.

2.02 NEW PRODUCTS

- A. Provide new products unless specifically required or permitted by the Contract Documents.

2.03 PRODUCT OPTIONS

- A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

PART 3 EXECUTION

3.01 SUBSTITUTION PROCEDURES

- A. Instructions to Bidders specify time restrictions for submitting requests for substitutions during the bidding period. Comply with requirements specified in this section.
- B. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
- C. A request for substitution constitutes a representation that the submitter:
 - 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
 - 2. Will provide the same warranty for the substitution as for the specified product.

3. Will coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.
 4. Waives claims for additional costs or time extension that may subsequently become apparent.
- D. Substitution Submittal Procedure:
1. Submit one copy of request for substitution for consideration. Limit each request to one proposed substitution.
 2. Submit shop drawings, product data, and certified test results attesting to the proposed product equivalence. Burden of proof is on proposer.
 3. The Consultant will notify Contractor in writing of decision to accept or reject request.

3.02 TRANSPORTATION AND HANDLING

- A. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
- B. Transport and handle products in accordance with manufacturer's instructions.
- C. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
- D. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
- E. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.
- F. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

3.03 STORAGE AND PROTECTION

- A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication.
- B. Store and protect products in accordance with manufacturers' instructions.
- C. Store with seals and labels intact and legible.
- D. Store sensitive products in weather tight, climate controlled, enclosures in an environment favorable to product.
- E. For exterior storage of fabricated products, place on sloped supports above ground.
- F. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
- G. Prevent contact with material that may cause corrosion, discoloration, or staining.
- H. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- I. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION

SECTION 017000
EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Examination, preparation, and general installation procedures.
- B. Requirements for alterations work, including selective demolition, except removal, disposal, and/or remediation of hazardous materials and toxic substances.
- C. Cleaning and protection.
- D. Closeout procedures, except payment procedures.
- E. General requirements for maintenance service.

1.02 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.

1.03 FINAL CLEANING

- A. Clean all surfaces soiled during the project.
- B. Restore site to pre-project condition or better.
- C. Clean debris from roof, gutters, downspouts and drainage systems.
- D. Remove waste, surplus material, rubbish and construction facilities from the site.

1.04 RESTORATION OF EXISTING SURFACES DAMAGED DURING CONSTRUCTION

- A. Restore or replace any damaged surfaces, items, etc to the Owners satisfaction. Replacements shall match existing in-kind.

1.05 CLOSEOUT SUBMITTALS

- A. Upon "Substantial Completion" of project, the Contractor shall submit the below listed item to the Consultant for presentation to the Owner.
 - 1. 10-year Manufacturer's no-dollar-limit (NDL) material and labor warranty.
 - 2. 20-year sheet metal Manufacturer's finish warranty.
 - 3. 2-year Contractor's material and labor warranty.
 - 4. Affidavits of Compliance with prevailing wage rates.
 - 5. Final payment application.
 - 6. Final lien waiver(s).
 - 7. Shop drawing records of changes in design.
 - 8. Return signed punch list indicating completion of any punch list items.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
- B. Examine and verify specific conditions described in individual specification sections.
- C. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.
- D. Verify that utility services are available, of the correct characteristics, and in the correct locations.
- E. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.
- C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

3.03 GENERAL INSTALLATION REQUIREMENTS

- A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.
- B. All work shall be made 100% weatherproof on a daily basis

3.04 ALTERATIONS

- A. Maintain weatherproof exterior building enclosure except for interruptions required for replacement or modifications; take care to prevent water and humidity damage.
 - 1. Where openings in exterior enclosure exist, provide construction to make exterior enclosure weatherproof.
- B. Remove existing work as indicated and as required to accomplish new work.
 - 1. Remove items indicated on drawings.
- C. Protect existing work to remain.
 - 1. Prevent movement of structure; provide shoring and bracing if necessary.
 - 2. Perform cutting to accomplish removals neatly and as specified for cutting new work.
 - 3. Repair adjacent construction and finishes damaged during removal work.
- D. Adapt existing work to fit new work: Make as neat and smooth transition as possible.
- E. Remove demolition debris and abandoned items from alterations areas and dispose of off-site; do not burn or bury.
- F. Comply with all other applicable requirements of this section.

3.05 PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
- B. Collect and remove waste materials, debris, and trash/rubbish from site daily and dispose off-site; do not burn or bury.

3.06 PROTECTION OF INSTALLED WORK

- A. Protect installed work from damage by construction operations.
- B. Provide special protection where specified in individual specification sections.
- C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
- E. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- F. Remove protective coverings when no longer needed; reuse or recycle plastic coverings if possible.

3.07 FINAL CLEANING

- A. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.
- B. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
- C. Clean debris from roofs, gutters, downspouts, and drainage systems.

- D. Clean site; sweep paved areas, rake clean landscaped surfaces.
- E. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.

3.08 CLOSEOUT PROCEDURES

- A. Make submittals that are required by governing or other authorities.
- B. Notify Consultant when work is considered ready for Substantial Completion.
- C. Submit written certification that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Consultant's review.
- D. Correct items of work listed in executed Letters of Substantial Completion and comply with requirements for access to Owner-occupied areas.
- E. Notify Consultant when work is considered finally complete.
- F. Complete items of work determined by Consultant's final inspection.

3.09 MAINTENANCE

- A. Provide service and maintenance of components indicated in specification sections.

END OF SECTION

SECTION 070150.19
PREPARATION FOR RE-ROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Removal of existing roofing system in preparation for a new roof system.

1.02 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate with affected mechanical and electrical work associated with roof penetrations.
- B. Schedule work to coincide with commencement of installation of new roofing system.

1.03 FIELD CONDITIONS

- A. Do not remove existing roofing membrane when weather conditions threaten the integrity of the building contents or intended continued occupancy.
- B. Maintain continuous temporary protection prior to and during installation of new roofing system.

PART 3 EXECUTION

2.01 MATERIAL REMOVAL

- A. Remove only existing roofing materials that can be replaced with new materials the same day.

2.02 FIELD QUALITY CONTROL

- A. The drawings identify the exact limits to material removal.

2.03 PROTECTION

- A. Provide temporary seal protecting uncovered deck surfaces and/or remaining existing roofing.
- B. Provide for surface drainage from temporary protection seal to existing drainage facilities.

END OF SECTION

SECTION 075300
ELASTOMERIC MEMBRANE ROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Elastomeric roofing membrane, ballasted conventional application.
- B. Insulation, flat and tapered.
- C. Flashings.
- D. Roofing stack boots.

1.02 RELATED REQUIREMENTS

- A. Section 076200 - Sheet Metal Flashing and Trim: .

1.03 REFERENCE STANDARDS

- A. ASTM C728 - Standard Specification for Perlite Thermal Insulation Board; 2005 (Reapproved 2010).
- B. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2008.
- C. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board; 2012.
- D. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension; 2006a.
- E. ASTM D448 - Standard Classification for Sizes of Aggregate for Road and Bridge Construction; 2008.
- F. ASTM D4637/D4637M - Standard Specification for EPDM Sheet Used in Single-Ply Roof Membrane; 2012.
- G. FM DS 1-28 - Wind Design; Factory Mutual Research Corporation; 2007.
- H. NRCA ML104 - The NRCA Roofing and Waterproofing Manual; National Roofing Contractors Association; Fifth Edition, with interim updates.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate with installation of associated counterflashings installed under other sections.
- B. Preinstallation Meeting: Convene a preinstallation meeting before starting work of this section; require attendance by all affected installers; review preparation and installation procedures and coordination and scheduling necessary for related work.

1.05 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Contractor shall provide Owner with one copy of manufacturer's material safety data sheets (MSDS) for all material prior to bringing on site.
- C. Contractor shall provide Consultant with submittals for acceptance prior to the pre-construction meeting.
- D. Contractor shall provide Consultant a list of proposed materials for acceptance.
- E. Shop Drawings: Indicate paver layout and tapered insulation layout.
- F. Manufacturer's Installation Instructions: Indicate membrane seaming precautions and perimeter conditions requiring special attention.
- G. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

- A. If requested, prior to the start of construction, Contractor shall attend a preconstruction meeting.

- B. Furnish all material in new condition, labeled with manufacturers name and appropriate ASTM, UL and FM markings on labels.
- C. Except where specifically superseded by these specifications, install all material in accordance with the latest edition of NRCA (National Roofing Contractors Association) Manual and manufacturer's installation instructions. As part of the submittal process, Contractor shall submit any specifications items that are in conflict with NRCA recommendations or manufacturers specific instructions.
- D. In the event that the Contractor wishes to make improvements in materials or techniques, or is required to make improvements by his material manufacturer in order to obtain guarantees, he shall make written request to the Consultant for acceptance stating in full the nature of the proposed changes and stating that the changes, if accepted, will be accomplished at no increase in cost.
- E. Roofing and flashing shall be applied only by manufacturer's authorized roofing applicator familiar with the product.
- F. Manufacturer's agent or representative shall inspect site prior to beginning work and at completion of all work.
- G. Roofing shall not be installed under the following conditions. Inclement weather, or when construction activities on roof area prevent application of finished roofing.
- H. Do not install insulation or any other roofing on wet surfaces.
- I. Do not install wet or damaged materials. Immediately dispose of damaged material and material not stored in accordance with specifications.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in manufacturer's original containers, dry, undamaged, with seals and labels intact.
- B. Store products in weather protected environment, clear of ground and moisture.
- C. Protect foam insulation from direct exposure to sunlight.

1.08 FIELD CONDITIONS

- A. Contractor shall raise plumbing vent stacks using no-hub connectors and schedule 40 plastic pipe to a height that is a minimum of 8" but not more than 12" above the finished roof surfaces.
- B. Contractor shall clean and prepare roof drain(s) to receive new flashing, provide new clamps, bolts, nuts, etc. Drill and tap new holes and bolts as needed.
- C. Mechanical equipment, vents, electrical work, ducts, expansion joints, etc., shall be raised to a height that is a minimum of 8" above the finished roof surface or as detailed.
- D. Contractor shall coordinate and be responsible for removal and reinstallation of items not specified to be removed and replaced as may be necessary for proper installation of his work.
- E. Utilize good weather to utmost. Plan and schedule all work to occur during least threatening weather. Contractor to have standing arrangement with all subcontractors, all parties agreeing to proceed as arranged, but also agreeing to adjust to sudden changes of weather.
- F. Reroofing work, once begun, will leave building subject to leakage and therefore must be considered in state of emergency when weather threatens. Existing building shall be protected by Contractor from water entering through any roof or parapet area under repair for life of the project.
- G. Remove only as much roofing, insulation, and flashing as can be made watertight each day. Make effective watertight seal between existing roofing and new roofing at the end of each day's work. Remove seal before continuing.
- H. Load roofing debris directly into trucks by means of approved chutes or other controlled means. Throwing or dropping will not be permitted. All such gravel, rubbish, debris, etc., shall be removed from site and disposed of by Contractor. Pick up debris continuously to prevent

straying. Avoid damaging property as much as possible by limiting number of locations where trucks may be loaded.

- I. Do not apply roofing membrane during unsuitable weather.
- J. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- K. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

1.09 WARRANTY

- A. See Section 017000 - Execution & Closeout Requirements for additional warranty requirements.
- B. Contractor shall correct defective work within a two year period after Date of Substantial Completion; remove and replace materials at no extra cost to Owner.
- C. Provide sheet membrane manufacturer's standard ten (10) year material and labor warranty covering leaks caused by the manufacturer's supplied material or the workmanship used to install these materials.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. EPDM System Materials:
 - 1. Carlisle SynTec: www.carlisle-syntec.com.
 - 2. Firestone Building Products Co: www.firestonebpco.com.
 - 3. Versico Roofing Systems: www.versico.com.
 - 4. Johns Manville: www.jm.com
 - 5. Substitutions: See Section 016000 - Product Requirements.

2.02 ROOFING - BALLASTED APPLICATIONS

2.03 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

- A. Membrane: Ethylene-propylene-diene-terpolymer (EPDM); non-reinforced; complying with minimum properties of ASTM D 4637.
 - 1. Thickness: 0.045 inch.
- B. Seaming Materials: As recommended by membrane manufacturer.
- C. Flexible Flashing Material: Same material as membrane:
- D. Membrane Protection Sheet: Polypropylene woven sheet, 6.0 oz. per square yard when tested in accordance with ASTM D 5261.
 - 1. Substitutions: See Section 016000 - Product Requirements.

2.04 INSULATION

- A. Perlite Board Insulation (replacement): Expanded perlite mineral aggregate, ASTM C728, with the following characteristics:
 - 1. Match existing in thickness and/or slope.
- B. Molded Polystyrene Board Insulation: Expanded polystyrene board, ASTM C 578; with the following characteristics:
 - 1. Match existing thickness and/or slope.
- C. Tapered and/or flat stock Extruded Polystyrene Board Insulation (XPS(replacement)): ASTM C 578, Type X; Extruded expanded polystyrene board with natural skin surfaces:
 - 1. Match existing thickness and slope.

2.05 BALLAST MATERIALS

- A. Contractor shall provide and install new ballast stone in accordance with manufacturer's recommendations and re-use existing ballast pavers, replacing only broken or disintegrated units.
- B. No.4 Aggregate (replacement): Sound, hard, washed rounded river gravel, ASTM D448 Size Classification 4,3, 24, 2, or 1.

- C. Pavers (replacement): Precast concrete units, 5,000 psi air entrained mix.
 - 1. Match existing paver dimensions.

2.06 ACCESSORIES

- A. Stack Boots: Prefabricated flexible boot and collar for pipe stacks through membrane; same material as membrane.
- B. Membrane Adhesive: As recommended by membrane manufacturer.
- C. Lumber Nails:
 - 1. Double hot dipped zinc coated, ring-shanked nails.
- D. Lumber Screws:
 - 1. Polymer coated screws.
- E. Concrete and Masonry Fasteners:
 - 1. Galvanized Deformed Shank, Zinc expansion with stainless steel pin or screw type fastener requiring a predrilled hole. Nylon expansion fasteners and fasteners not requiring a predrilled hole are not allowed. Head to be countersunk or rounded. Fastener to provide a minimum of 250 lb. per foot pullout resistance in any direction. Concrete anchors shall have 1-1/4" minimum embedment.
- F. Termination Bar:
 - 1. Extruded aluminum with rounded edges and ends. Bar shall have prepunched holes for fastening.
- G. Pre-fabricated Walkway Pads: as recommended by membrane manufacturer. Install at all serviceable equipment, roof access points and where indicated on the Construction Drawings.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Remove and dispose of existing ballast and roofing membrane down to the specified substrate. Provide temporary plugs at roof drains during tear-off, remove at the end of each day's work.
- B. Verify that surfaces and site conditions are ready to receive work.
- C. Verify deck is supported and secure.
- D. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.
- E. Verify deck surfaces are dry and free of snow or ice.
- F. Verify that roof openings, curbs, and penetrations through roof are solidly set, and specified openings are in place.

3.02 SUBSTRATE PREPARATION

- A. Shift existing insulation to eliminate any gaps between boards. Fill in missing insulation with new insulation, matching existing thickness, slope and type.
- B. Lay boards with edges in moderate contact without forcing. Cut insulation to fit neatly to perimeter blocking and around penetrations through roof.
- C. Do not apply more insulation than can be covered with membrane in same day.

3.03 MEMBRANE APPLICATION

- A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.
- B. Shingle joints on sloped substrate in direction of drainage.
- C. Position single ply membrane over area to be roofed without stretching. Install sheet with a minimum amount of field splices. Lap seams in direction of flow.
- D. Allow membrane to relax a minimum of 1/2 hour prior to splicing and flashing.
- E. Clean all laps with manufacturer's approved solvents and/or primers. All bonding surfaces must be free of dirt, moisture, etc.

- F. When a membrane seam occurs over an insulation plate, move insulation plate away from seam.
- G. Stir all adhesives a minimum of five (5) minutes with a variable speed high torque drill prior to use.
- H. Seam membrane in accordance with manufacturer's printed instructions using seam tape or adhesive as applicable.
- I. Provide a minimum four (4) inch wide adhesive seam when utilizing adhesives for seams. Follow manufacturer's direction regarding adhesive application.
- J. Do not use heat guns in splicing procedures. Allow to air dry only.
- K. Seams through a roof drain or prefabrication boot and sheet wrinkles through a seam are not allowed.
- L. Roll seam first perpendicular to seam the entire length of seam then parallel to seam for the entire length of seam.
- M. Terminate membrane in accordance with detail drawings or approved shop drawings.
- N. Edge of plate shall be 1/4" - 1/2" from deck to wall/curb juncture.
- O. Lap sealant shall be applied to adhesive seams before the end of each day but not before seam has set for two (2) hours. Lap joints to be cleaned before installing sealant.
- P. Mound sealant in the middle and feather at the ends so as not to show the contour of the lap.
- Q. Where field seams cross forming a "T" joint, provide a minimum 12" x 12" patch of uncured flashing adhered over "T" joint.

3.04 ROOF FLASHING

- A. All flashings and terminations shall be done in accordance with detail drawings or approved shop drawings. Bond flashings to obtain 95% adhesion within each square foot of flashing.
- B. Provide flashing type as recommended by the manufacturer.
- C. 1/4" bridging of flashing material, measured across the face, is maximum allowable.
- D. All cured flashing vertical field splices, shall be overlaid with a piece of flashing centered over the field splice at the angle change.
- E. Do not stretch uncured flashings.
- F. Flashing at curbs, expansion joints, etc. shall extend up to and terminate on top of horizontal surface.
- G. Flash penetrations, such as soil vent stacks in accordance with manufacturers' instructions using prefabricated units.
- H. Flash other penetrations using field fabricated flashings.
- I. Roofing membrane to be flashed at the end of each day with the top edge of the flashing sealed with caulk strip, sealant or mastic to prevent water entry.
- J. Top and side terminations of all wall flashings are to be sealed with a caulk strip/compression bar, provide a 1" x 1/8" continuous bead of water stop mastic behind the membrane before installing bar. Cut termination bar at corners and wall expansion joints.
- K. Provide lap sealant at all adhesive flashing lap terminations. Lap joints to be cleaned before installing sealant. Mound sealant in the middle and feather at the ends so as not to show the contour of the lap.

3.05 ROOF SCUPPER FLASHING

- A. Taper insulation around roof scuppers to provide a smooth transition from roof surface to scupper opening. Install as shown on Construction Drawings and/or as needed to provide smooth transition to drainage opening. Do not slope insulation greater than 3/12.
- B. Install a watertight seal using water cut-off mastic between roof membrane and scupper opening. Use a minimum of 5 oz. of water cut-off mastic at each location.

- C. Install sheet metal scupper flange over membrane and strip in with additional membrane.

3.06 ROOF DRAIN FLASHING

- A. Wire brush clean, existing drain flange and clamping ring. Provide all new clamps and/or bolts. Reuse existing clamping ring and strainers.
- B. Taper insulation around roof drains to provide a smooth transition from roof surface to drain opening. Install as shown on Construction Drawings and/or as needed to provide smooth transition to drainage opening. Do not slope insulation greater than 3/12.
- C. Install a watertight seal using water cut-off mastic between roof membrane and drain opening. Use a minimum of 5 oz. of water cut-off mastic at each location.

3.07 BALLAST INSTALLATION

- A. Place protection sheet over membrane prior to placing ballast. No protection sheet will be required under stone ballast.
- B. Install ballast at manufacturer's recommended rates. Evenly distribute aggregate ballast.
- C. Install pavers in accordance with manufacturer's instructions. Provide approximately 1/4 inch space between pavers to permit surface water drainage.

3.08 FIELD QUALITY CONTROL

- A. See Section 014000 - Quality Requirements, for general requirements for field quality control and inspection.
- B. Require site attendance of roofing material manufacturers during installation of the Work.

3.09 CLEANING

- A. Remove markings from finished surfaces.
- B. In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and conform to their documented instructions.
- C. Repair or replace defaced or damaged finishes caused by work of this section.

3.10 PROTECTION

- A. Protect installed roofing and flashings from construction operations.
- B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

END OF SECTION

SECTION 076200
SHEET METAL FLASHING AND TRIM

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Fabricated sheet metal items, including flashings and counterflashings.
- B. Reglets and accessories.

1.02 REFERENCE STANDARDS

1.03 QUALITY ASSURANCE

- A. Perform work in accordance with SMACNA Architectural Sheet Metal Manual requirements and standard details, except as otherwise indicated.
- B. Contractor shall coordinate and be responsible for removal and reinstallation of items not specified to be removed and replaced as may be necessary for proper installation of his work.
- C. The Sheet Metal Contractor shall fabricate all items in maximum lengths and hold all joints to a minimum. At no time shall any piece be shorter than three (3) feet in length unless that piece makes up an entire run.
- D. Unless otherwise noted, drip edges where shown shall be 3/4 inches with all exposed edges hemmed 1/2 inch.
- E. Do not "punch" metal at brake points.
- F. Contractor to counter flash with metal all vertical surfaces flashed with roofing.
- G. Where metal is hooked to a continuous cleat, crimp metal to cleat full length.
- H. All sealant pans shall be required to have a watertight umbrella with draw band covering sealant pan.
- I. Utilize good weather to utmost. Plan and schedule all work to occur during least threatening weather. Contractor to have standing arrangement with all subcontractors, all parties agreeing to proceed as arranged, but also agreeing to adjust to sudden changes of weather.
- J. Work, once begun, will leave building subject to leakage and therefore must be considered in state of emergency when weather threatens. Existing building shall be protected by Contractor from water entering through any roof or parapet area under repair for life of the project.
- K. Remove only as much flashing as can be made watertight each day. Make effective watertight seal between existing and new at the end of each day's work. Remove seal before continuing.
- L. Load debris directly into trucks by means of approved chutes or other controlled means. Throwing or dropping will not be permitted. All debris shall be removed from site and disposed of by Contractor. Pick up debris continuously to prevent straying. Avoid damaging property as much as possible by limiting number of locations where trucks may be loaded.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Stack material to prevent twisting, bending, and abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.
- B. Prevent contact with materials that could cause discoloration or staining.

1.05 WARRANTY

- A. Provide manufacturers standard twenty (20) year warranty which states finish will not chalk in excess of an eight (8) rating or fade in excess of a five (5) rating when tested in accordance with ASTM D-659 and ASTM D-2244.

PART 2 PRODUCTS

2.01 SHEET MATERIALS

- A. Prefinished Architectural Sheet Metal:

1. 24 gauge G-90 galvanized steel with strippable film, primed and finished one side with a Kynar 500 or Hylar 5000 fluoropolymer coating 1.0 ± 0.1 mil total dry film thickness. A 0.3 - 0.4 mil dry film wash coat shall be applied to the backside. Color(s) and texture to be selected by Owner after bidding, from manufacturers standard selection.
2. Manufacturer shall have a minimum of twelve (12) colors and two (2) textures to select from.

2.02 CONCEALED CLEATS

- A. 22 gauge, G-90 galvanized, ASTM A-525.

2.03 STORM COLLARS, TALL CONE FLASHINGS AND SEALANT PAN

- A. 24 gauge, G-90 galvanized, ASTM A-525.
- B. Prefinished Architectural Sheet Metal:
1. 24 gauge G-90 galvanized steel with strippable film, primed and finished one side with a Kynar 500 fluoropolymer coating 1.0 ± 0.1 mil total dry film thickness. A 0.3 - 0.4 mil dry film wash coat shall be applied to the backside. Color(s) to be selected by Owner after bidding, from manufacturers standard selection.

2.04 ACCESSORIES

- A. Concrete Masonry Fasteners:
1. Galvanized Deformed Shank, zinc expansion with stainless steel pin or screw type fastener requiring a predrilled hole. Nylon expansion fasteners and fasteners not requiring a predrilled hole are not allowed. Head to be countersunk or rounded. Fastener to provide a minimum of 250 lbs. per foot pullout resistance in any direction.
- B. Sealant:
1. One part gun grade polyurethane base elastomeric joint sealant conforming to all applicable requirements of Federal Specification TT-S-00230C, Type II, Class A.
- C. Secondary Flashing (either/or option):
1. Elastomeric sheet membrane, minimum 30 mils.
 2. EPDM roofing membrane, 45-mils.
- D. Concealed Screws:
1. Cadmium plated pan head sheet metal screw.
- E. Exposed Screws:
1. Nonmetallic stainless steel sheet metal screw. When screw is specified to have a weather tight washer, washer shall have an integral stainless steel metal cap.
- F. Nails:
1. 11 or 12 gauge shank, minimum 3/8" head; nail composition similar to base metal being fastened.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify roof openings, curbs, pipes, sleeves, ducts, and vents through roof are solidly set, reglets in place.
- B. Verify roofing termination and base flashings are in place, sealed, and secure.

3.02 PREPARATION

- A. Install starter and edge strips, and cleats before starting installation.
- B. Install surface mounted reglets true to lines and levels. Seal top of reglets with sealant.

3.03 INSTALLATION

- A. Surface Preparation
1. Contractor shall remove and dispose of all existing sheet metal flashings, etc. from areas to receive new.
- B. Counter flashing inserted into reglet

1. Provide new reglet into an existing masonry joint. Reglet shall be one and one half (1 1/2) inches deep by full joint width. Clean joint of dust and loose masonry when finished.
 2. Make up straight runs using 8'-0" or 10'-0" long sheets. Counter flashing shall be creased longitudinally just enough to provide a spring action that will hold bottom edge firmly against roof flashing.
 3. Form counter flashing with a back leg one quarter (1/4) inch longer than joint width, bent upwards 120 degrees. Provide one and one half (1 1/2) inches between back leg and counter flashing leg brake points.
 4. Unless otherwise noted, counter flashing shall be run in a straight line and shall lap top of flashing by a minimum of three (3) inches.
 5. Counter flashing shall be notched and lapped one and one half (1 1/2) inches at inside corners. At joints, remove hem one and one half (1 1/2) inches and taper cut drip on underlying piece, lap joints one and one half (1 1/2) inches. Outside corners shall be notched and seamed.
 6. Notch and lap counter flashing one and one half (1 1/2) inches.
 7. Insert new counter flashing and hold with lead wedges 8" o.c., or lead expansion fasteners 12" o.c. Wedges and/or expansion fasteners shall be fully inserted into reglet. Fill and seal reglet with caulking, force sealant into all voids and tool joint when finished.
- C. Receiver
1. Reuse existing receiver.
- D. Counter flashing attached to a receiver
1. Make up straight runs using 8'-0" or 10'-0" long sheets. Counter flashing shall be creased longitudinally just enough to provide a spring action that will hold bottom edge firmly against roof flashing.
 2. Unless otherwise noted, counter flashing shall be run in a straight line and shall lap top of flashing by a minimum of three (3) inches.
 3. Counter flashing shall be notched and lapped 1-1/2 inches at inside corners. At joints, remove hem 1 1/2" and taper cut drip on underlying piece, lap joints 1 1/2". Outside corners shall be notched and seamed.
 4. Fasten counter flashing to receiver with stainless steel sheet metal screws 24 inches o.c. maximum. Do not fasten through joints, stagger joints between counter flashing and receiver.
- E. Surface mounted counter flashing
1. Make up straight runs using 8'-0" or 10'-0" long sheets. Counter flashing shall be creased longitudinally just enough to provide a spring action that will hold bottom edge firmly against roof flashing.
 2. Fabricate top edge of counter flashing with a fastening leg and a caulk cup.
 3. Unless otherwise noted, counter flashing shall be run in a straight line and shall lap top of flashing a minimum of three (3) inches.
 4. Counter flashing shall be notched and lapped one and one half (1 1/2) inches at inside corners. At joints, remove hem one and one half (1 1/2) inches and taper cut drip on underlying piece, lap joints one and one half (1 1/2) inches. Outside corners shall be notched and seamed.
 5. Fasten surface mounted counter flashing with concrete/masonry fasteners 24 inches o.c. maximum with an additional fastener one inch from each end. Do not fasten through joints.
 6. Back surface mounted counter flashing fastening leg with caulking or tape caulk prior to installing, seal top edge (caulk cup) with sealant.
- F. Fascia with lapped joints
1. Provide new metal fascia where shown on drawings. Installed sample required.
 2. Provide new concealed flashing under metal. Lap joints a minimum of 12 inches. Install flashing same day blocking is installed.

3. Make up straight runs using 8'-0" or 10'-0" long sheets. At joints, remove hem one and one half (1 1/2) inches and taper cut drip on underlying piece, lap joints one and one half (1 1/2) inches.
 4. Stagger all joints between fascia and edges.
 5. Corners shall be mitered, seamed and sealed.
 6. Secure bottom edges with a continuous cleat fastened 8" o.c. Fasten top edge of fascia 8" o.c. through slotted holes.
- G. Roof drip edge
1. Fabricate roof edge using 8'-0" or 10'-0" long sheets and with a four (4) inch roof flange as shown on Detailed Drawings.
 2. Notch and lap sections one and one half (1 1/2) inches.
 3. Set metal over roof membrane, fasten roof flange 3" o.c. staggered.
 4. Install sealant between laps.
 5. Roofing contractor to strip in metal edge with one ply of flashing membrane.
- H. Storm collars, tall cone flashings and sealant pans
1. Fabricate items as shown on detailed drawings or per shop drawings.
 2. Items to be stripped into roofing shall be fabricated with a continuous four (4) inch roof flange.
 3. Spot weld or pop rivet and solder all joints.
 4. Set metal flange over roof membrane.
 5. Roofing contractor to strip in flange with flashing membrane.
- I. Scuppers
1. Provide new metal scupper where shown on drawings and size to match existing scuppers.
 2. Provide full thickness wood blocking under scupper.
 3. Scupper to have an integral four (4) inch roof and wall flange. Fasten flange to blocking.
 4. Pop rivit and seal all joints.
 5. Set metal over roof membrane, fasten roof flange 3" o.c. staggered.
 6. Roofing contractor to strip in metal edge with one ply of flashing membrane.
 7. Provide new pre-finished galvanized, open-faced downspouts in conjunction with roof scuppers. Form scupper and roof flange with no longitudinal seams with associated elbows at existing locations as shown on drawings. Install downspout with seam away from wall. Roof flange shall have back portion higher than front so water drains off into scupper.
 8. Fasten downspouts with hangers eight (8) feet o.c. plus an additional hanger one foot from top, bottom and elbows.
 9. Provide face plate as shown on detail drawings.

3.04 FIELD QUALITY CONTROL

- A. See Section 014000 - Quality Requirements, for field inspection requirements.
- B. Inspection will involve surveillance of work during installation to ascertain compliance with specified requirements.

END OF SECTION

SECTION 079005

JOINT SEALERS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Sealants and joint backing.

1.02 REFERENCE STANDARDS

- A. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2011.
- B. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2011a.

1.03 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.

1.04 FIELD CONDITIONS

- A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Polyurethane Sealants:
 - 1. Sonneborn, Inc.; Product Sonolastic NP1.
 - 2. Tremco, Inc.; Product Dymonic.
 - 3. Tremco, Inc.; Product Vulkem 116.

2.02 SEALANTS

- A. Nonsag Polyurethane Sealant: ASTM C920, Grade NS, Class 25, Uses NT, I, M, A, G, O; single component, chemical curing, non-staining, non bleeding, capable of continuous water immersion, non-sagging type.
 - 1. Movement Capability: Plus and minus 25 percent.
 - 2. Service Temperature Range: -40 to 180 degrees F.

2.03 ACCESSORIES

- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
- B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.
- C. Joint Backing: Round foam rod compatible with sealant; closed cell polyethylene; oversized 30 to 50 percent larger than joint width.
- D. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate surfaces are ready to receive work.
- B. Verify that joint backing and release tapes are compatible with sealant.

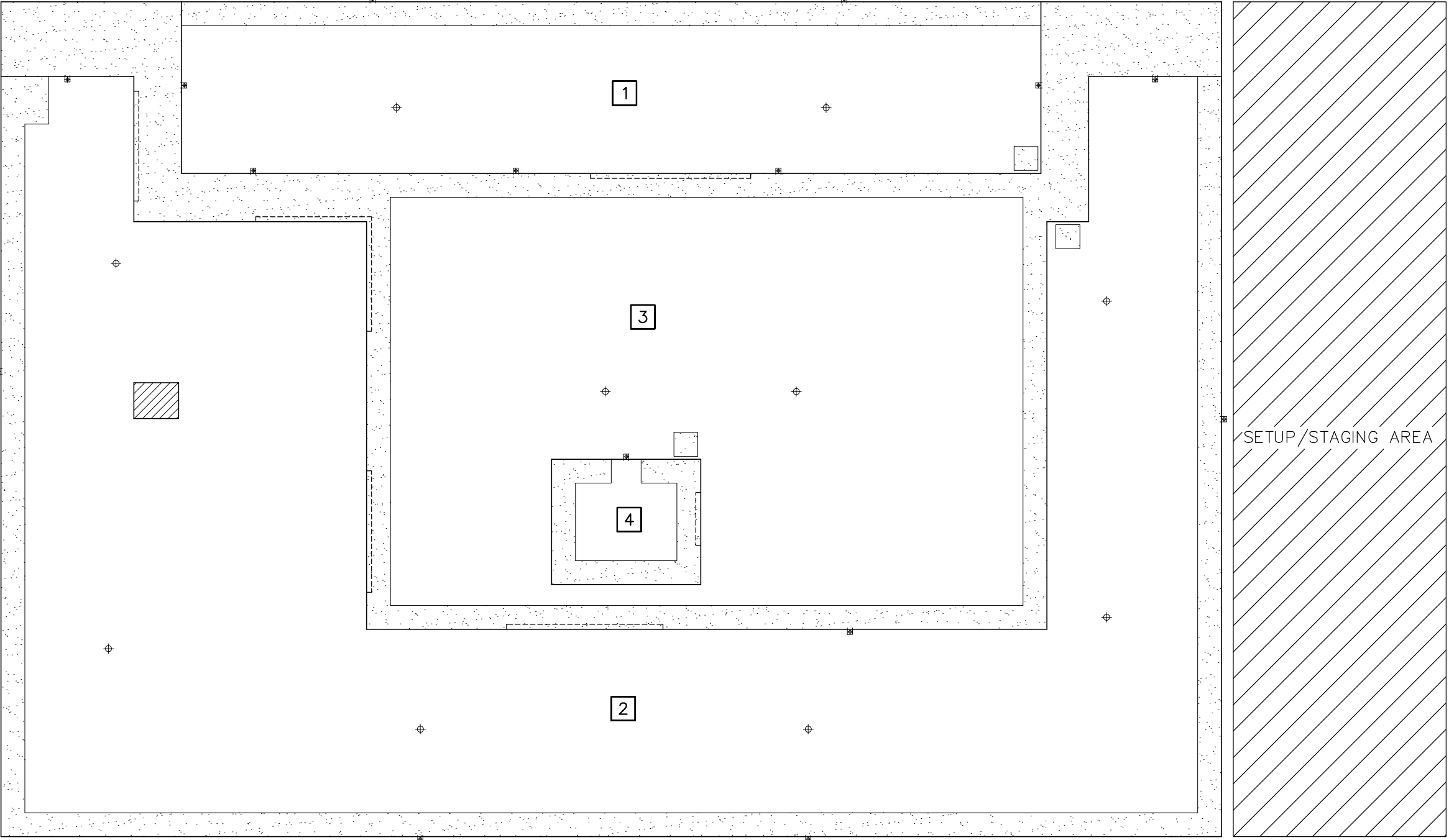
3.02 PREPARATION

- A. Remove loose materials and foreign matter that could impair adhesion of sealant.
- B. Clean and prime joints in accordance with manufacturer's instructions.
- C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.
- D. Protect elements surrounding the work of this section from damage or disfigurement.

3.03 INSTALLATION

- A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Perform installation in accordance with ASTM C1193.
- C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer.
- D. Install bond breaker where joint backing is not used.
- E. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- F. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- G. Dry tool joints concave.

END OF SECTION






















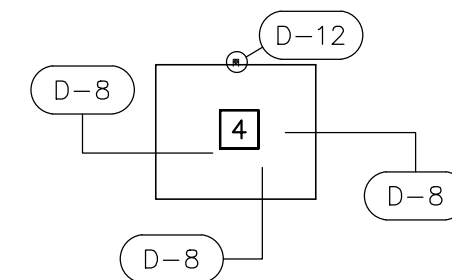
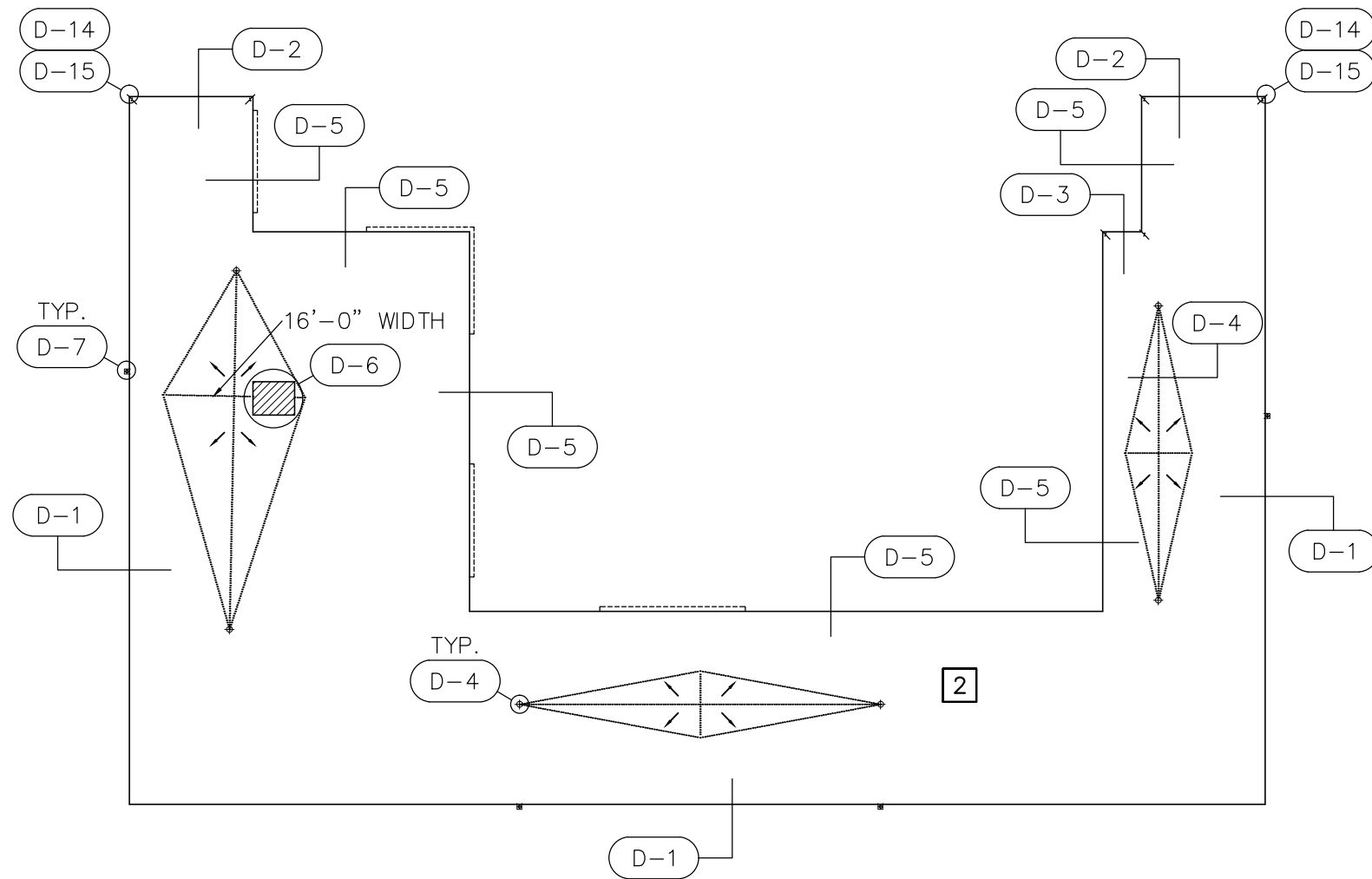
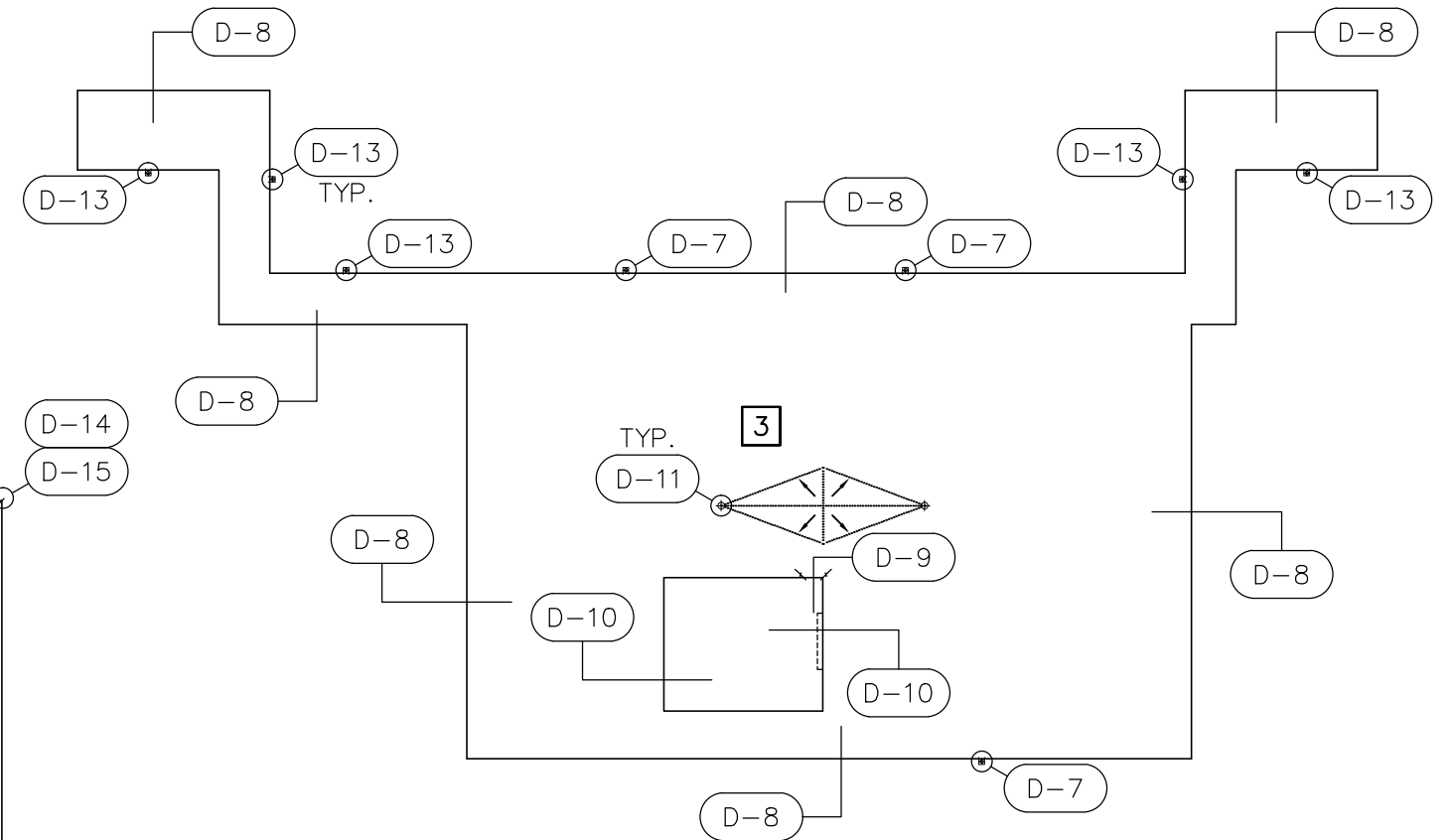
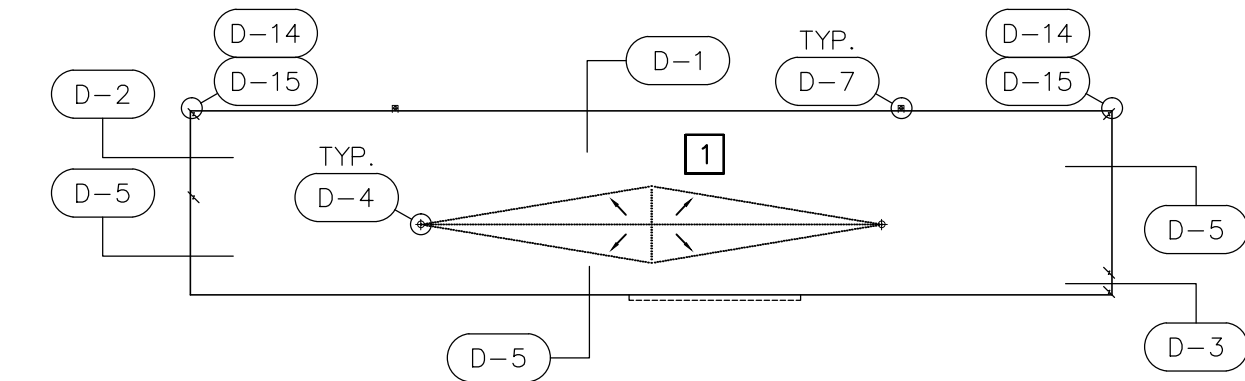
NOTES:

1. SHIFT EXISTING INSULATION TO ELIMINATE GAPS.
- FILL-IN MISSING INSULATION AS NEEDED. (NOT TO BE INCLUDED IN ALLOWANCE)
2. INSTALL NEW OR EXISTING BALLAST PAVERS IN LOCATIONS INDICATED ON DRAWING.
3. MOVE EXISTING LIGHTING PROTECTION ONLY AS NEEDED TO FACILITATE ROOF INSTALLATION.
- RETURN TO PRE-CONSTRUCTION CONDITION.
4. INCLUDE ALLOWANCE WITH BASE BID (SEE SECTION 012100 FOR AMOUNTS). UNUSED PORTIONS OF ALLOWANCE WILL BE DEDUCTED FROM THE FINAL CONTRACT AMOUNT VIA UNIT PRICING AND CHANGE ORDER.
5. ROOFER TO PROVIDE GROUND SAFETY MONITOR, IN CONTACT WITH CREW(S) ABOVE, WHENEVER WORKING ABOVE AN ENTRANCE/EXIT.
6. IF EXISTING FALL PROTECTION TIE-BACKS TO BE USED, TESTING AND CERTIFICATION MUST BE PERFORMED PRIOR TO USE.
7. ROOFER'S CREW WILL BE REQUIRED TO SIGN-IN AND OBTAIN ACCESS KEY FROM MAINTENANCE ON A DAILY BASIS TO GAIN ACCESS TO ROOF PENTHOUSE. ROOFER WILL BE REQUIRED TO MAINTAIN INTERIOR CLEANLINESS OF BUILDING IN ACCESS TRAFFIC AREA FROM DOOR TO ROOF.
8. RE-FLASH EXISTING STACK & FLANGE OF CHIMNEY ON ROOF AREA 2. ADHERE 60-MIL MEMBRANE DIRECTLY TO SUBSTRATE.
9. STAGING ON WEST SIDE OF BUILDING AVAILABLE ON WEEKENDS ONLY.
10. HAMMER DRILLING ALLOWED ONLY DURING NON-BUSINESS HOURS AND ON WEEKENDS.

 - PAVER LAYOUT (MATCH EXISTING)

KEY

-  - ROOF AREA DESIGNATION
-  - ROOF DRAIN
-  - THRU-WALL SCUPPER
-  - ROOF EDGE SCUPPER
-  - GUTTER EDGE
-  - CURBED OPENING
-  - H.V.A.C. CURB
-  - ROOF HATCH
-  - SKYLIGHT
-  - CURBED STACK
-  - CHIMNEY
-  - PIPE PORTAL CURB
-  - ROOF LADDER
-  - PIPE VENT
-  - SOIL STACK
-  - SMALL PIPE PENETRATION
-  - PITCH PAN
-  - EXPANSION JOINT
-  - SLOPE TRANSITION



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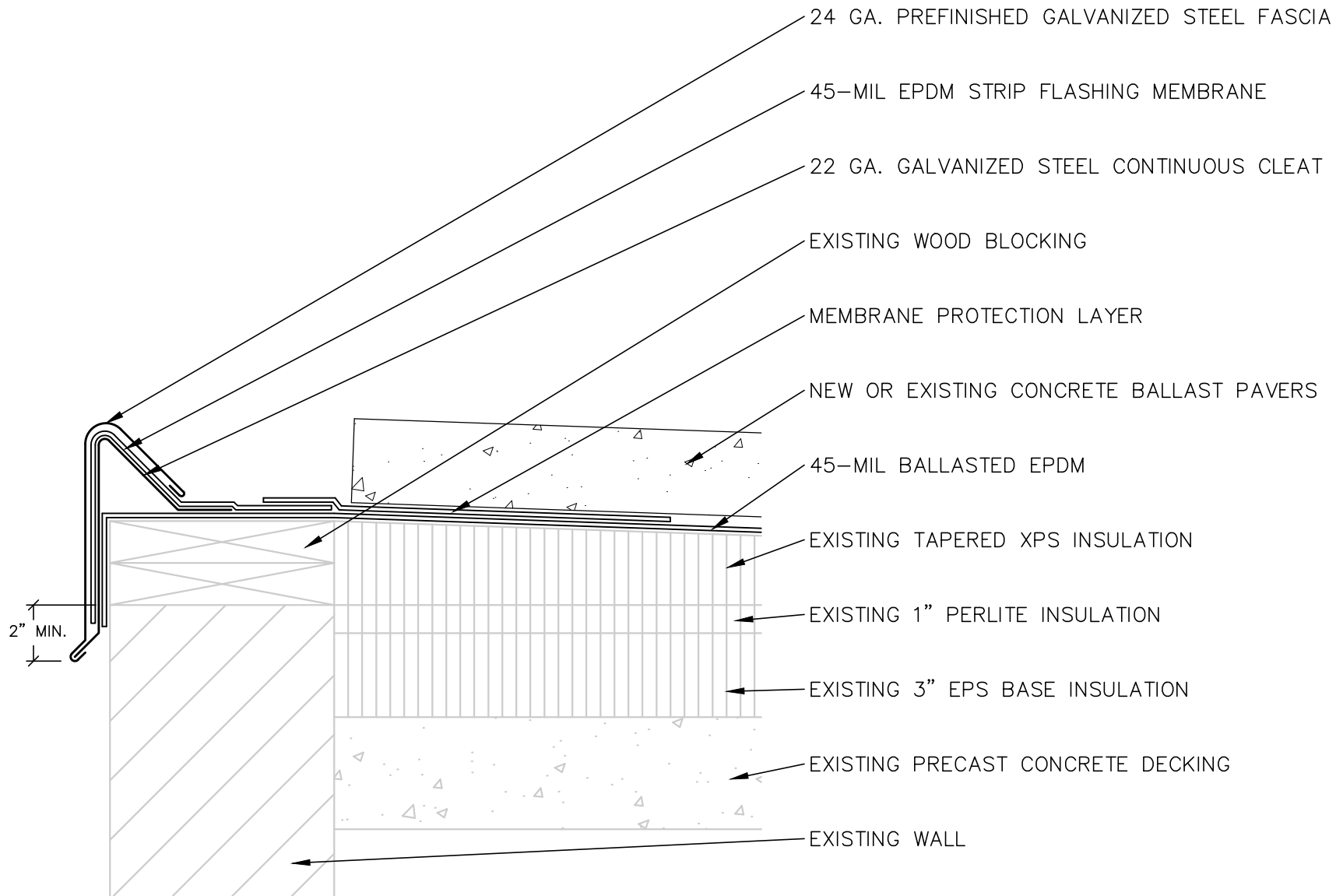
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MENOMONEE FALLS, WI 53051
TEL: 262 253 4700 | www.str-seg.com

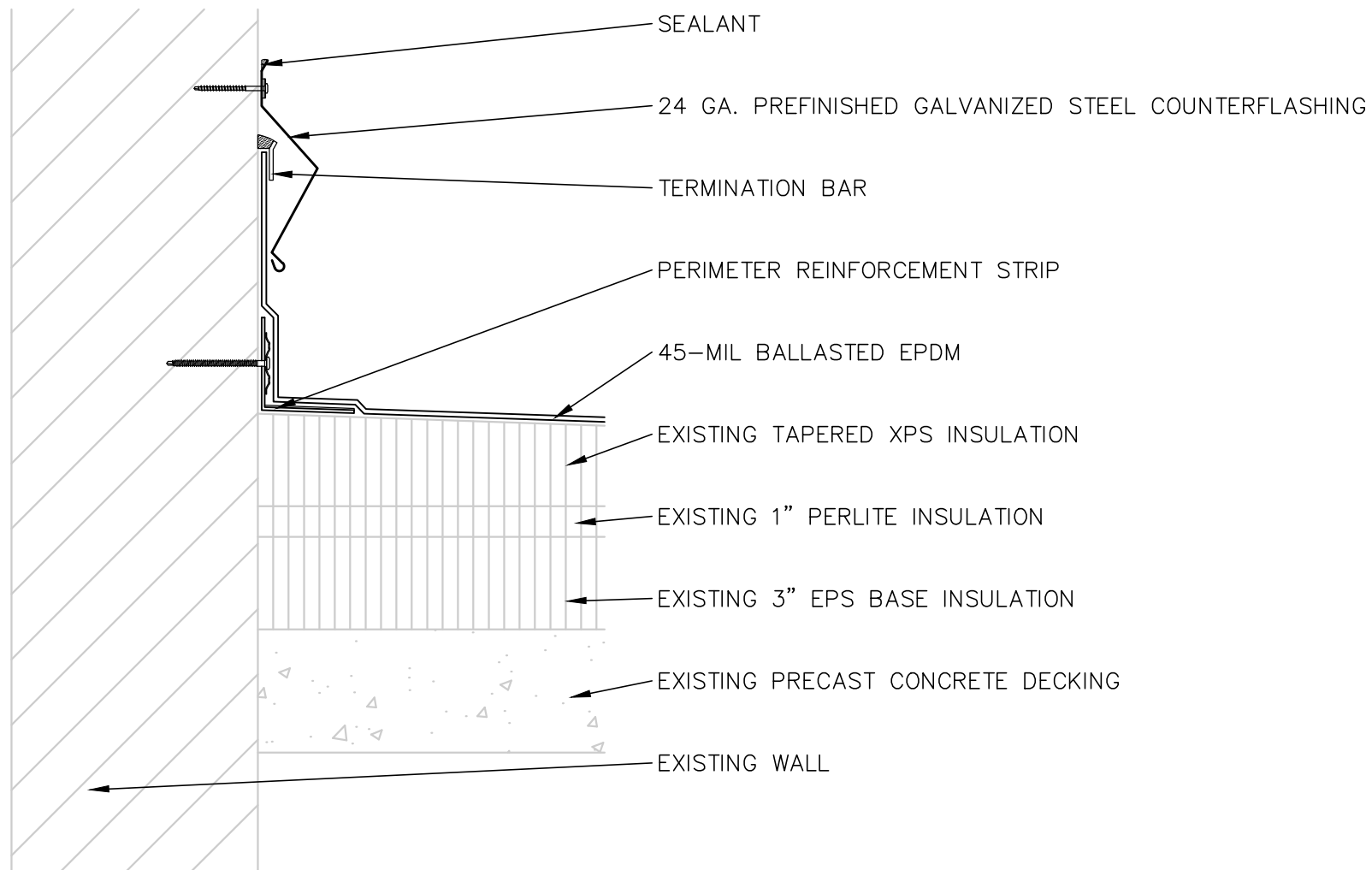
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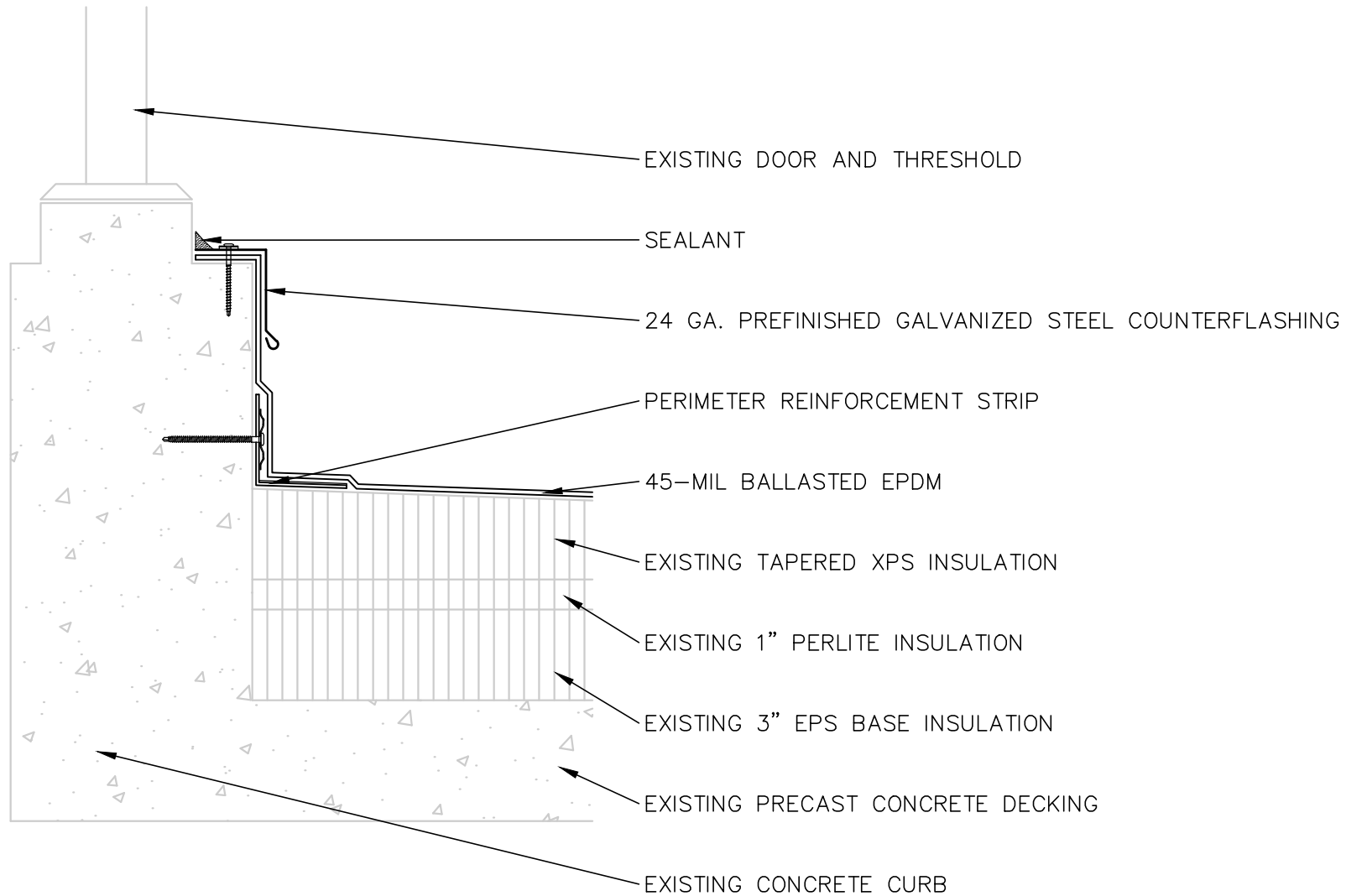
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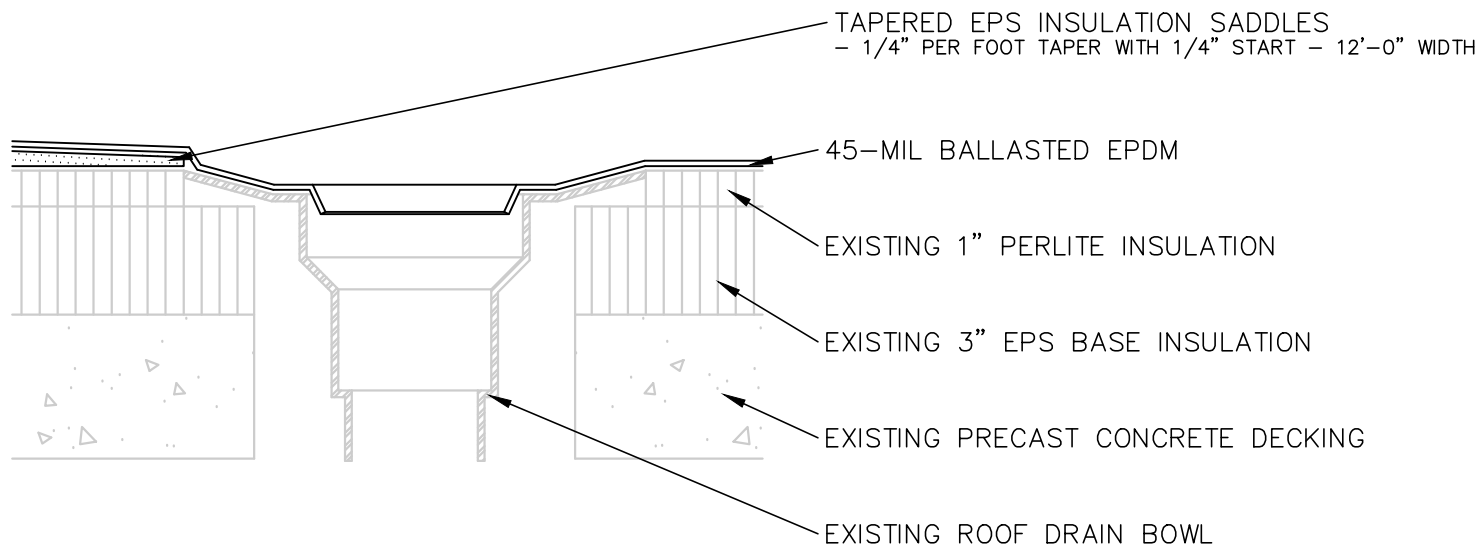
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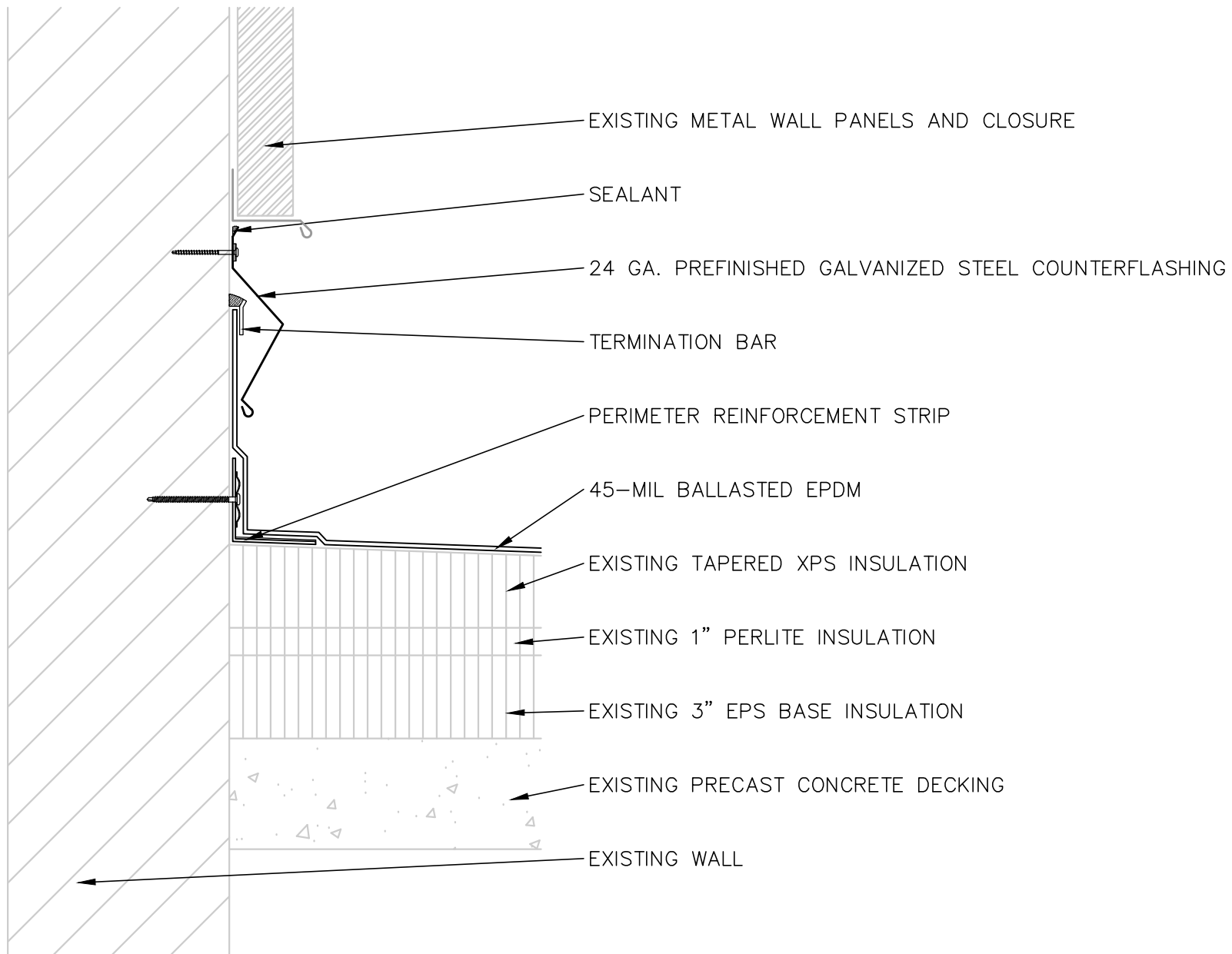


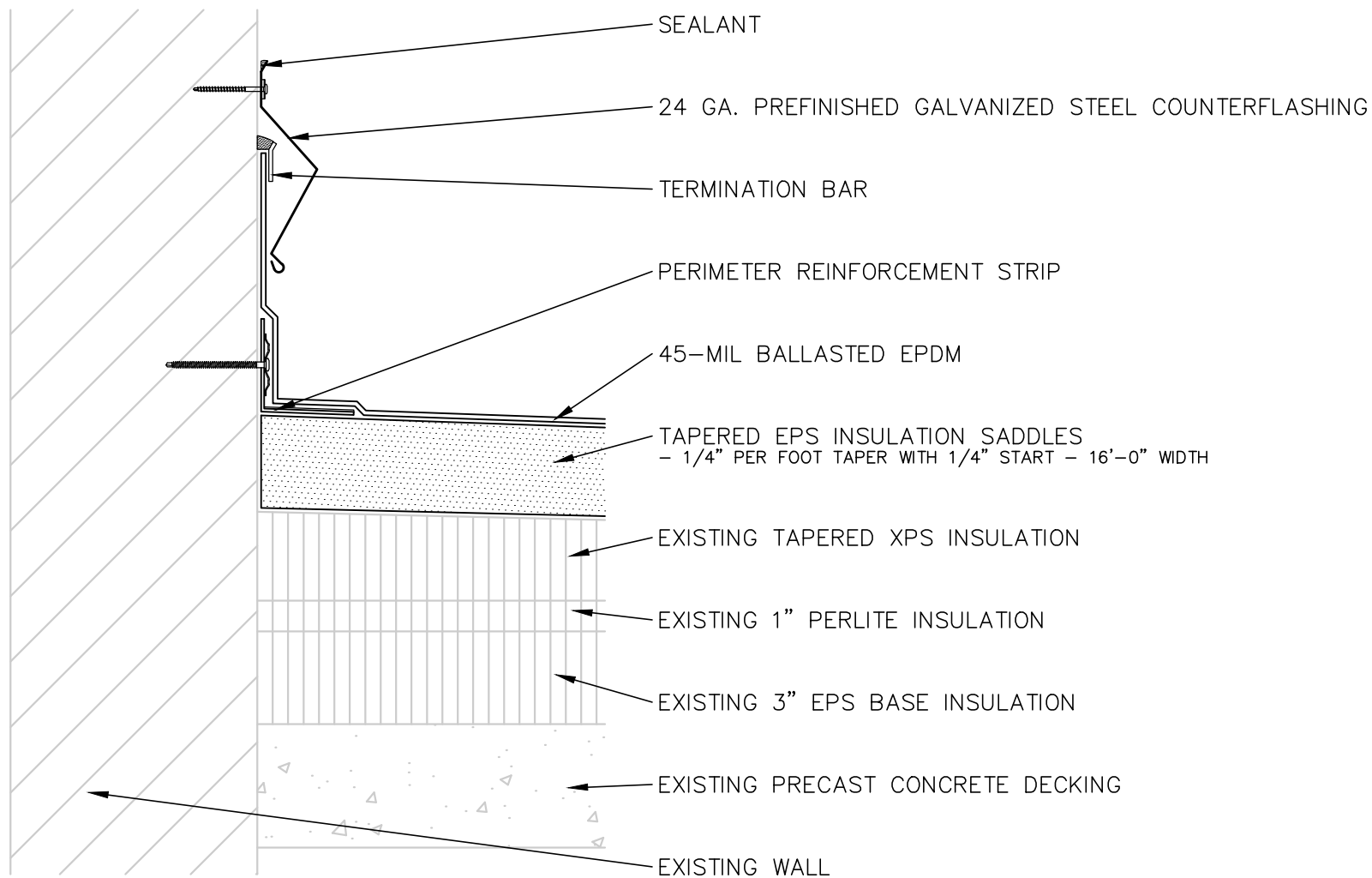




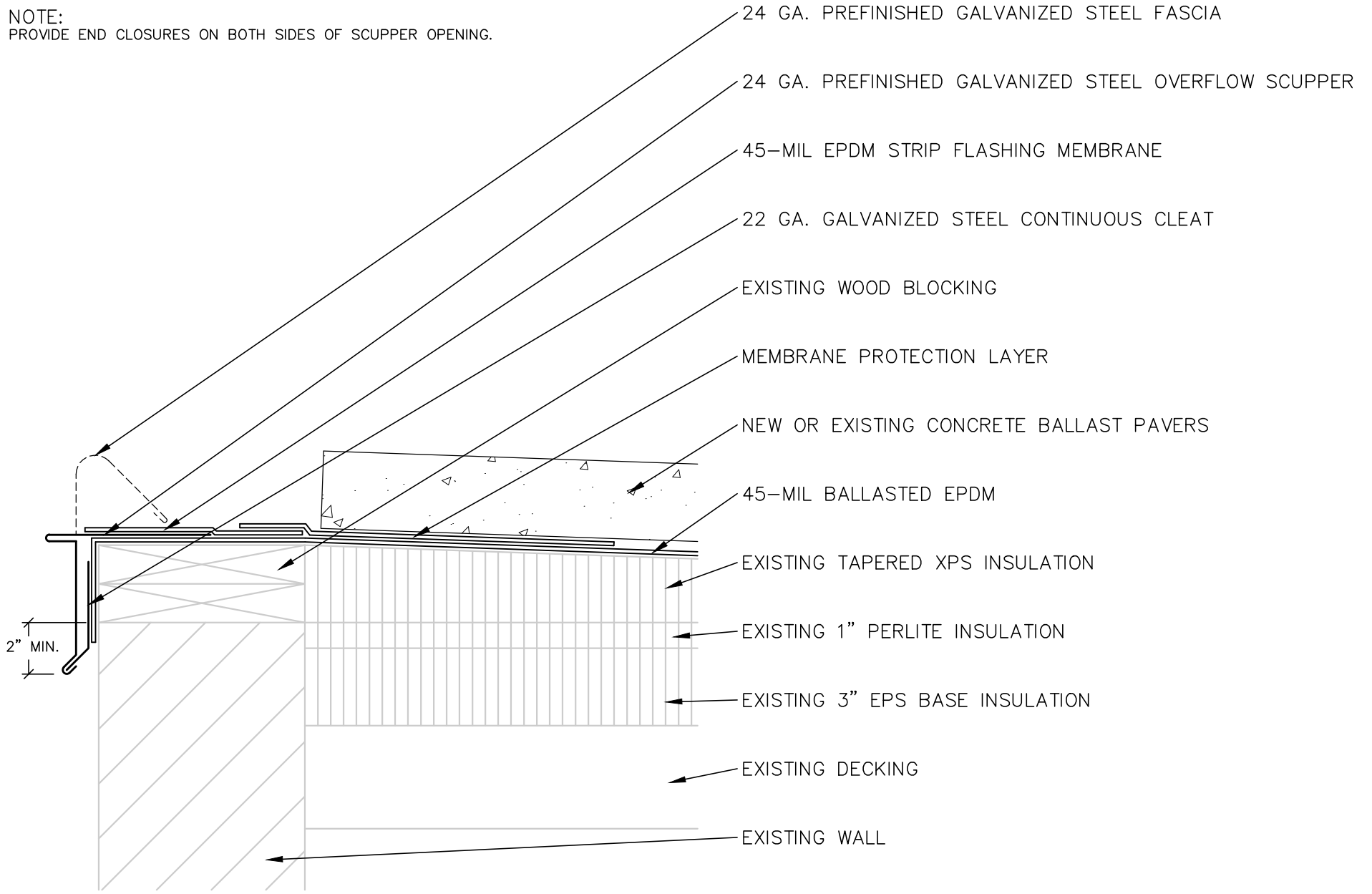
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PROVIDE MATCHING SHEET METAL CLOSURE ON BOTH SIDES OF DOOR OPENING.

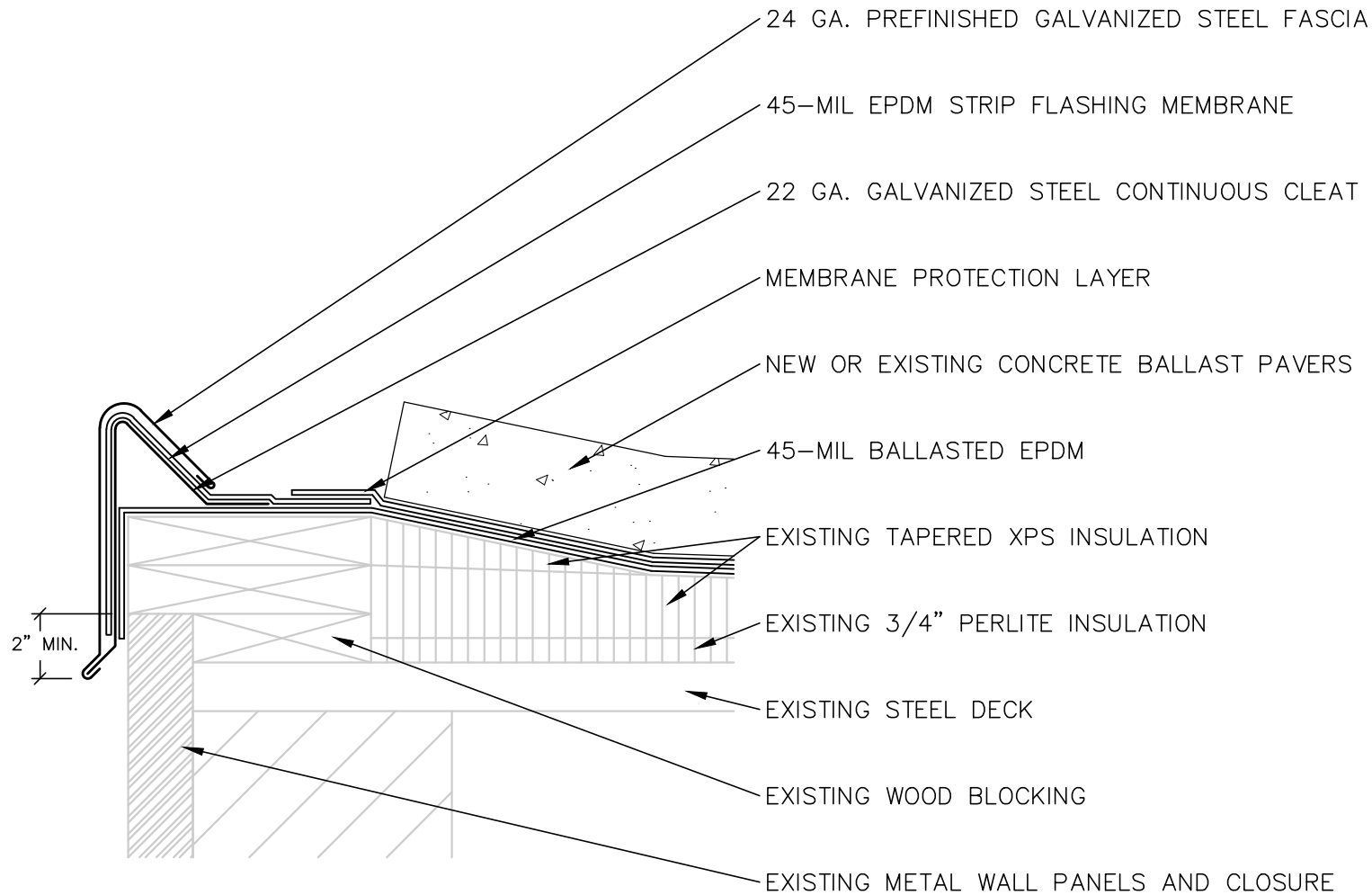


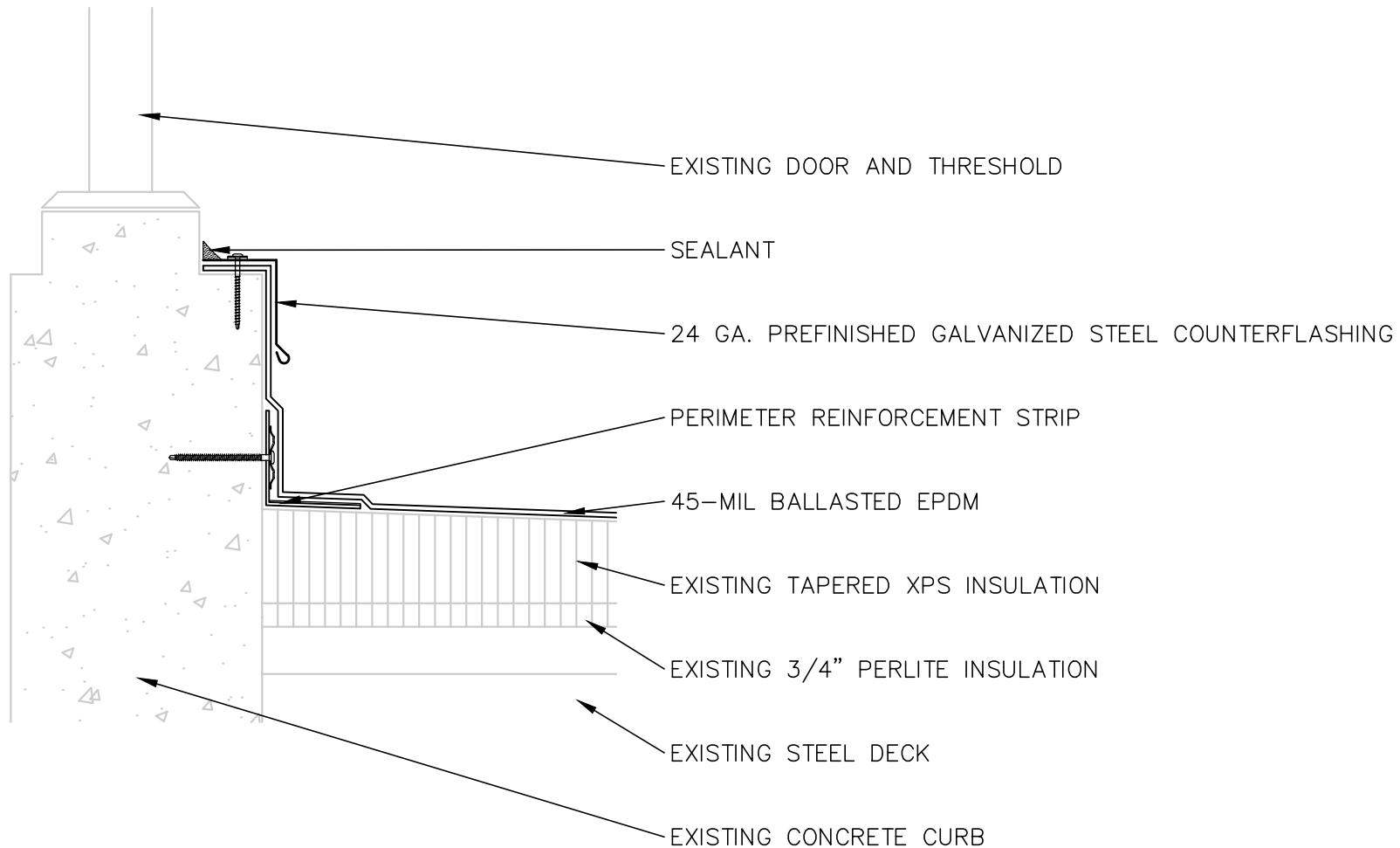




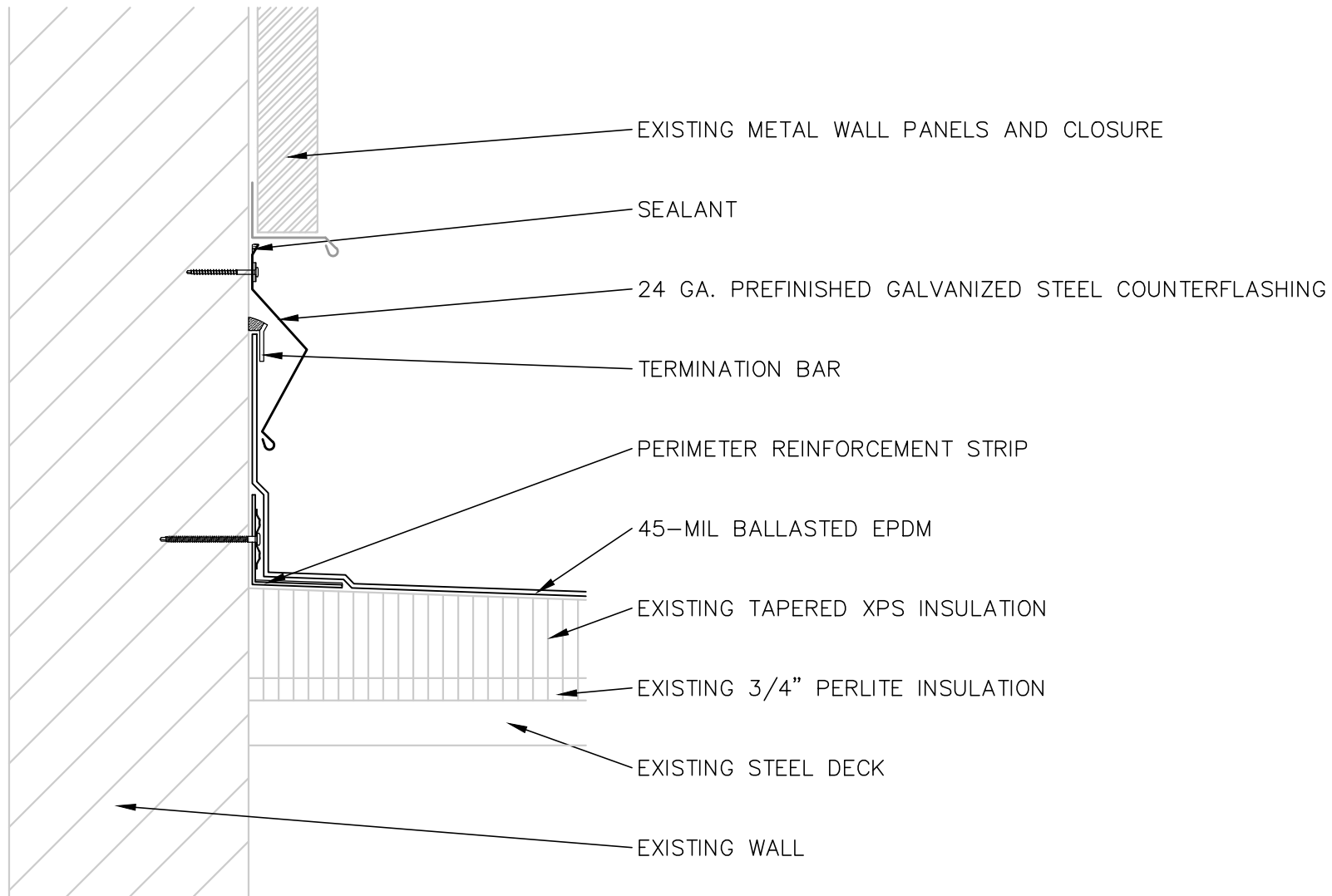
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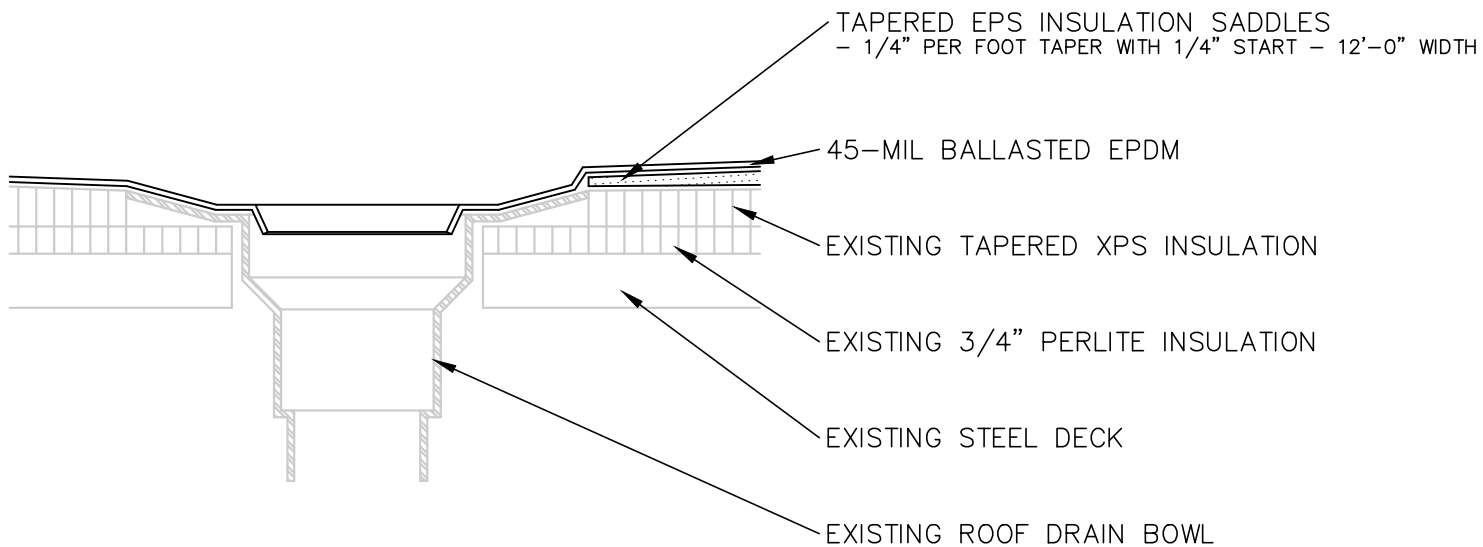




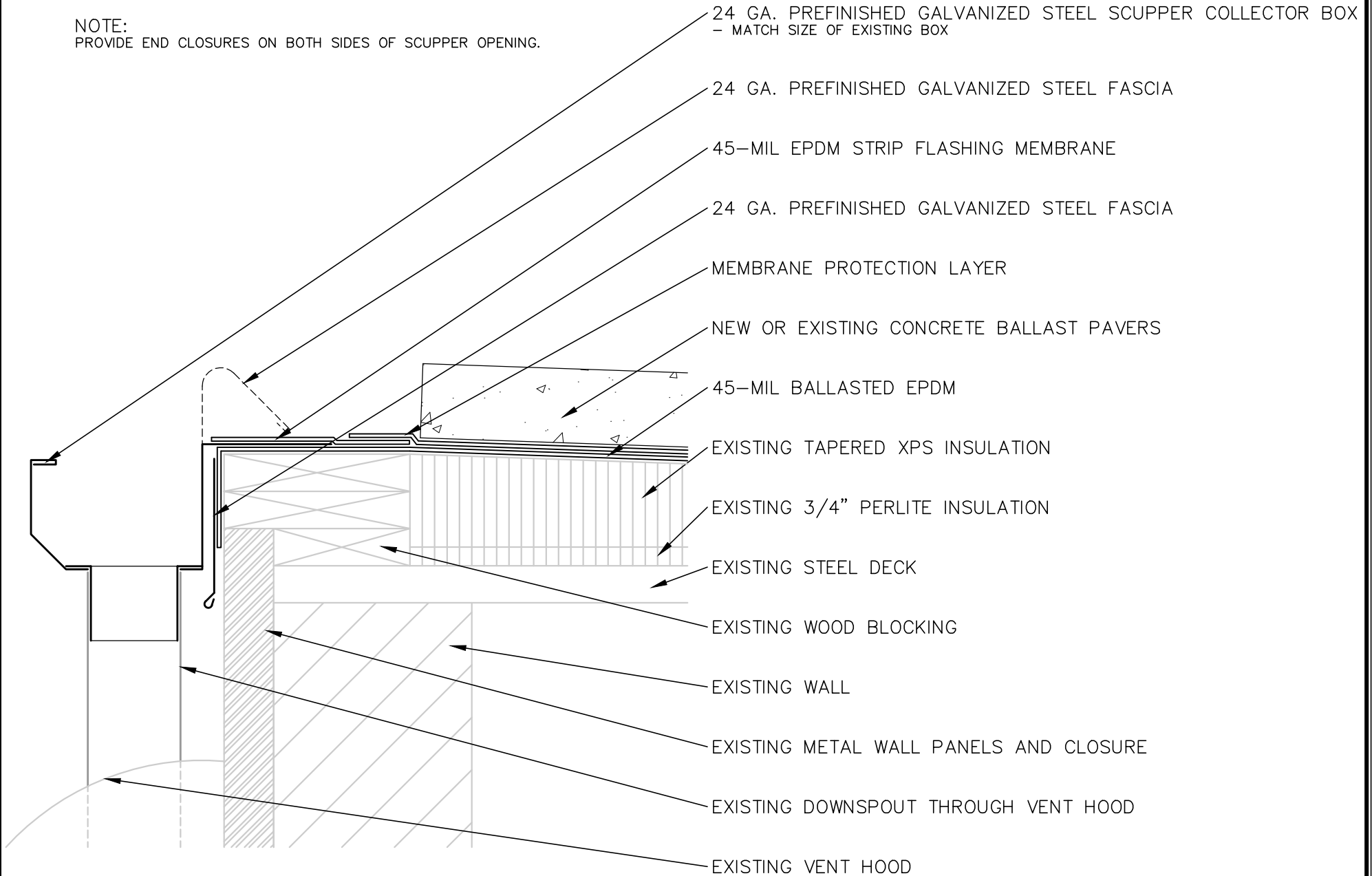


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NOTE:
PROVIDE END CLOSURES ON BOTH SIDES OF SCUPPER OPENING.



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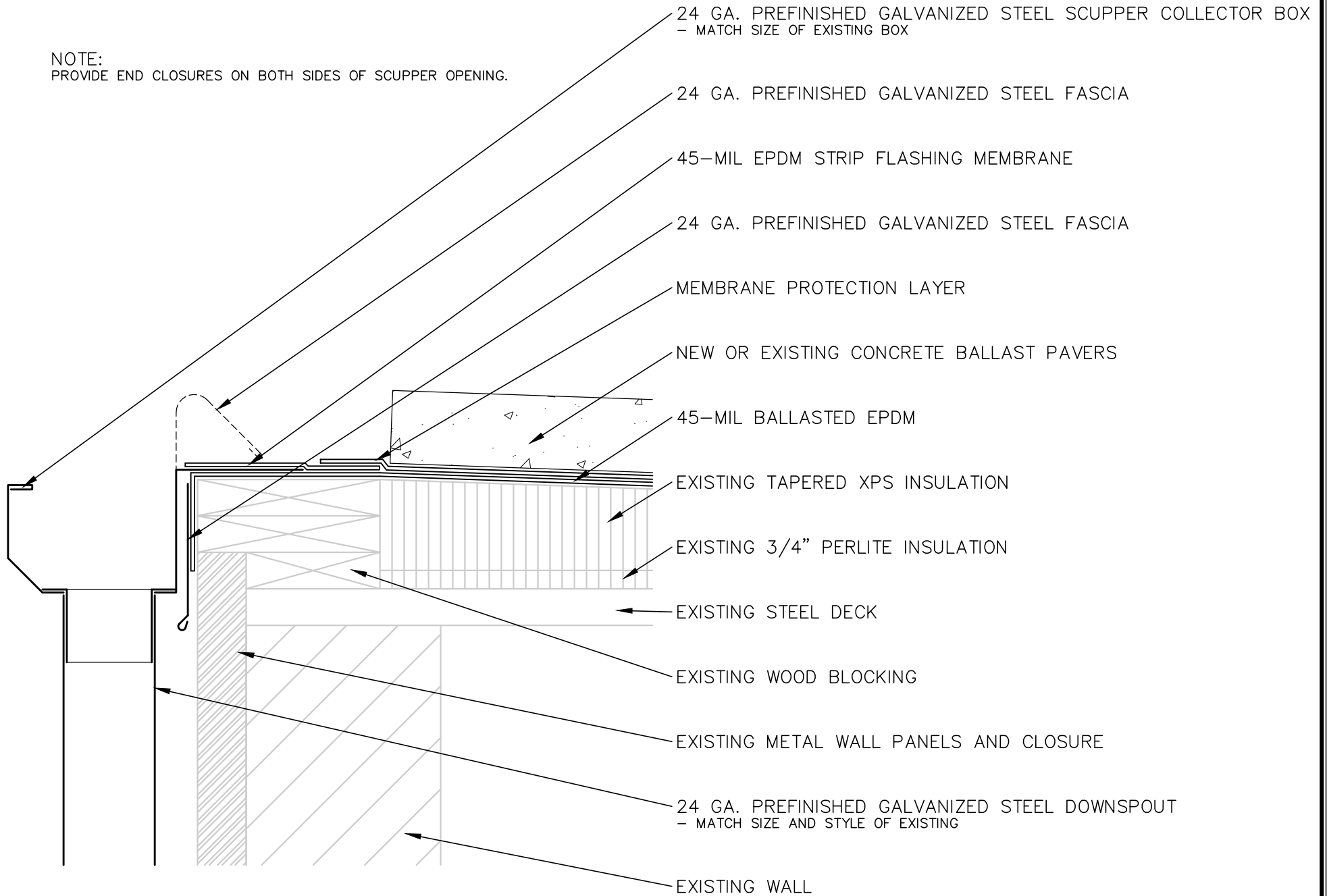
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Justice Center
SCUPPER FLASHING
5/3/13

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NOTE:
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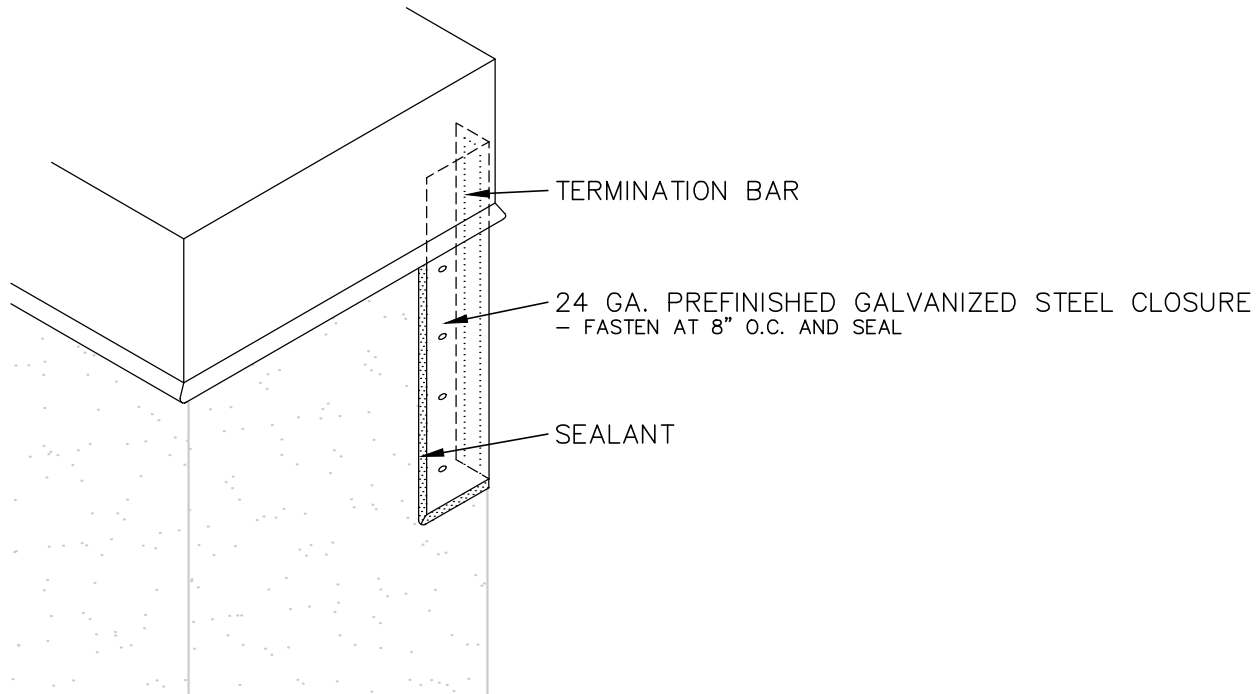
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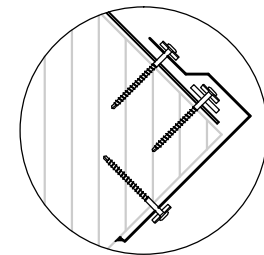
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5/3/13

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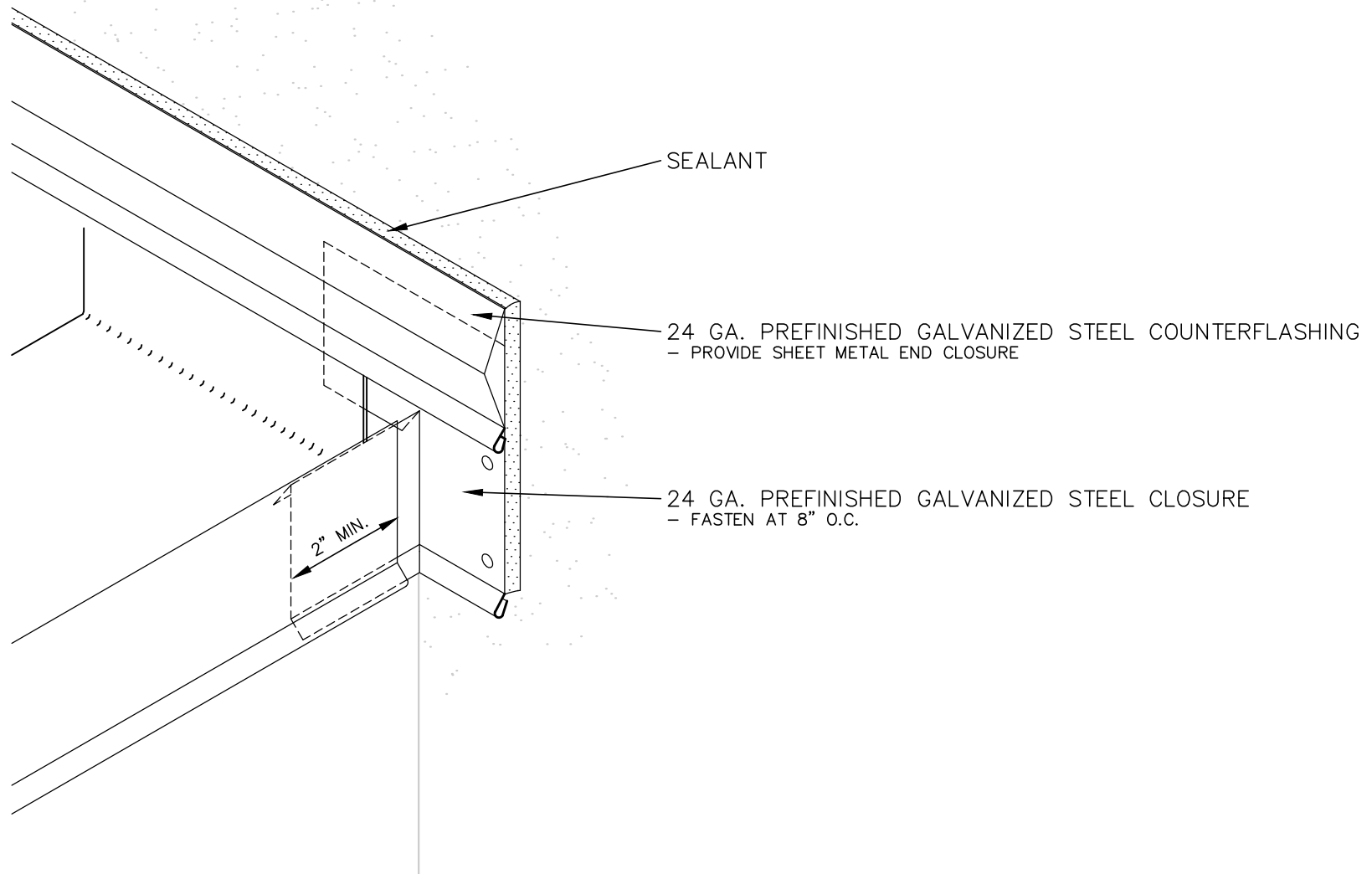
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NOTE:
SEE INDIVIDUAL DETAILS FOR CONSTRUCTION.



PROFILE



NOTE:
SEE INDIVIDUAL DETAILS FOR CONSTRUCTION.

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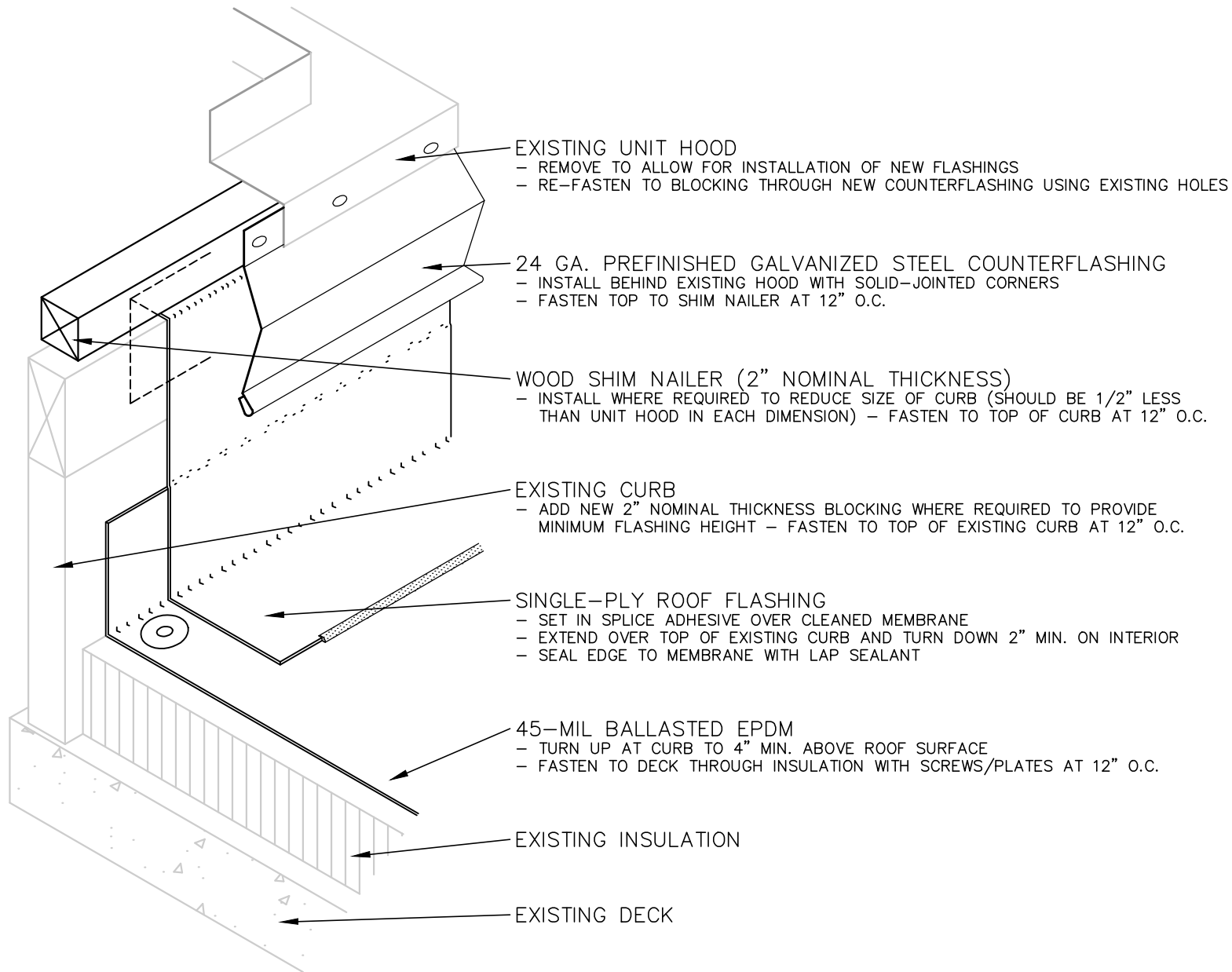
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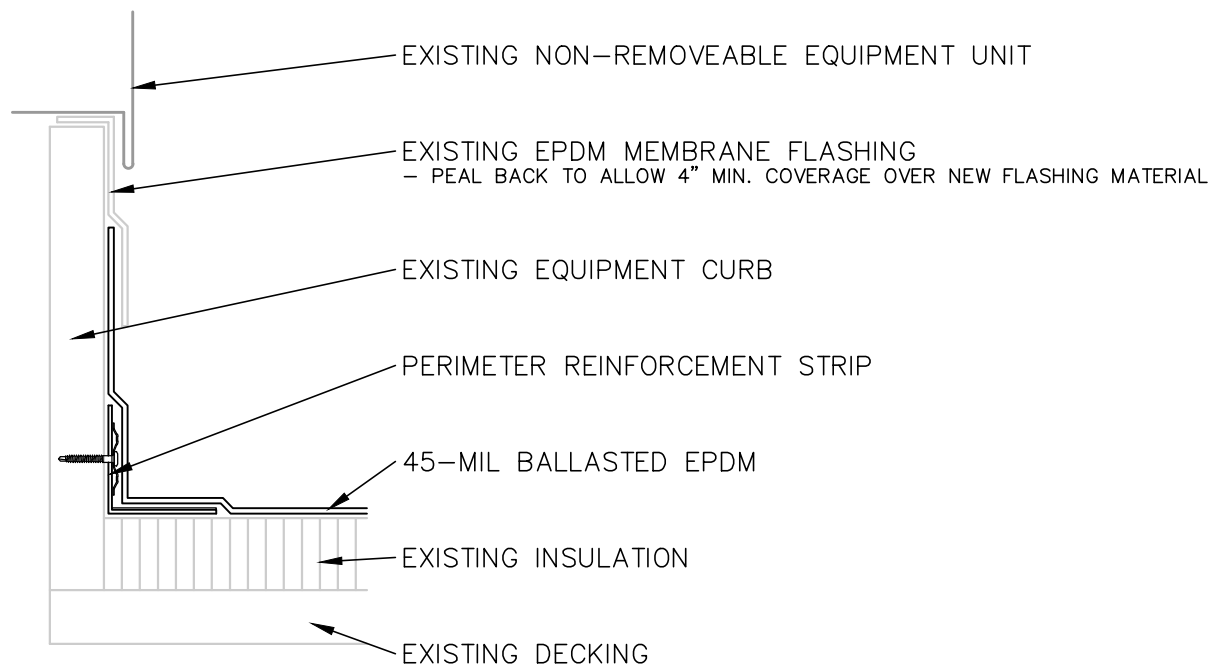
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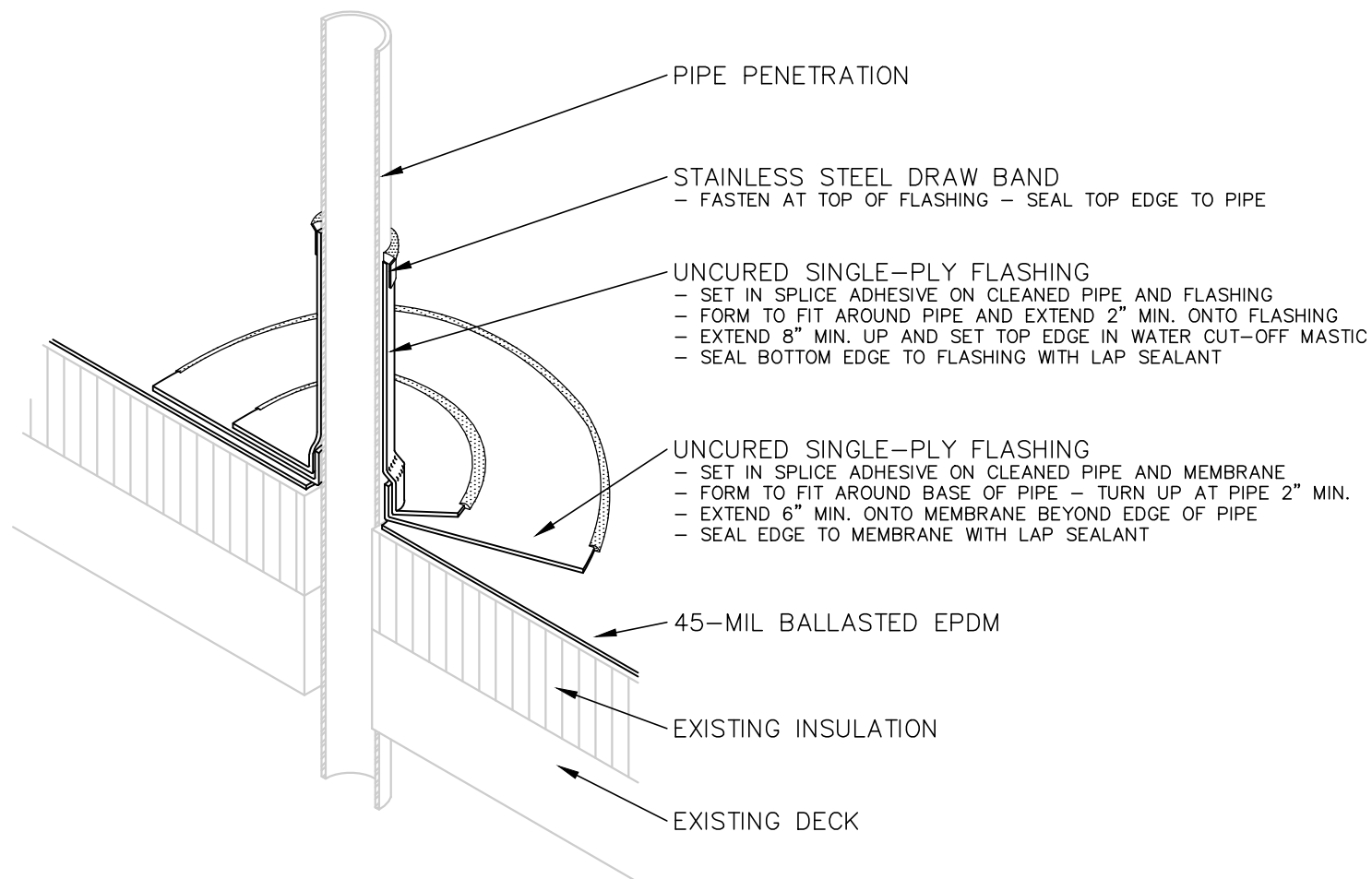
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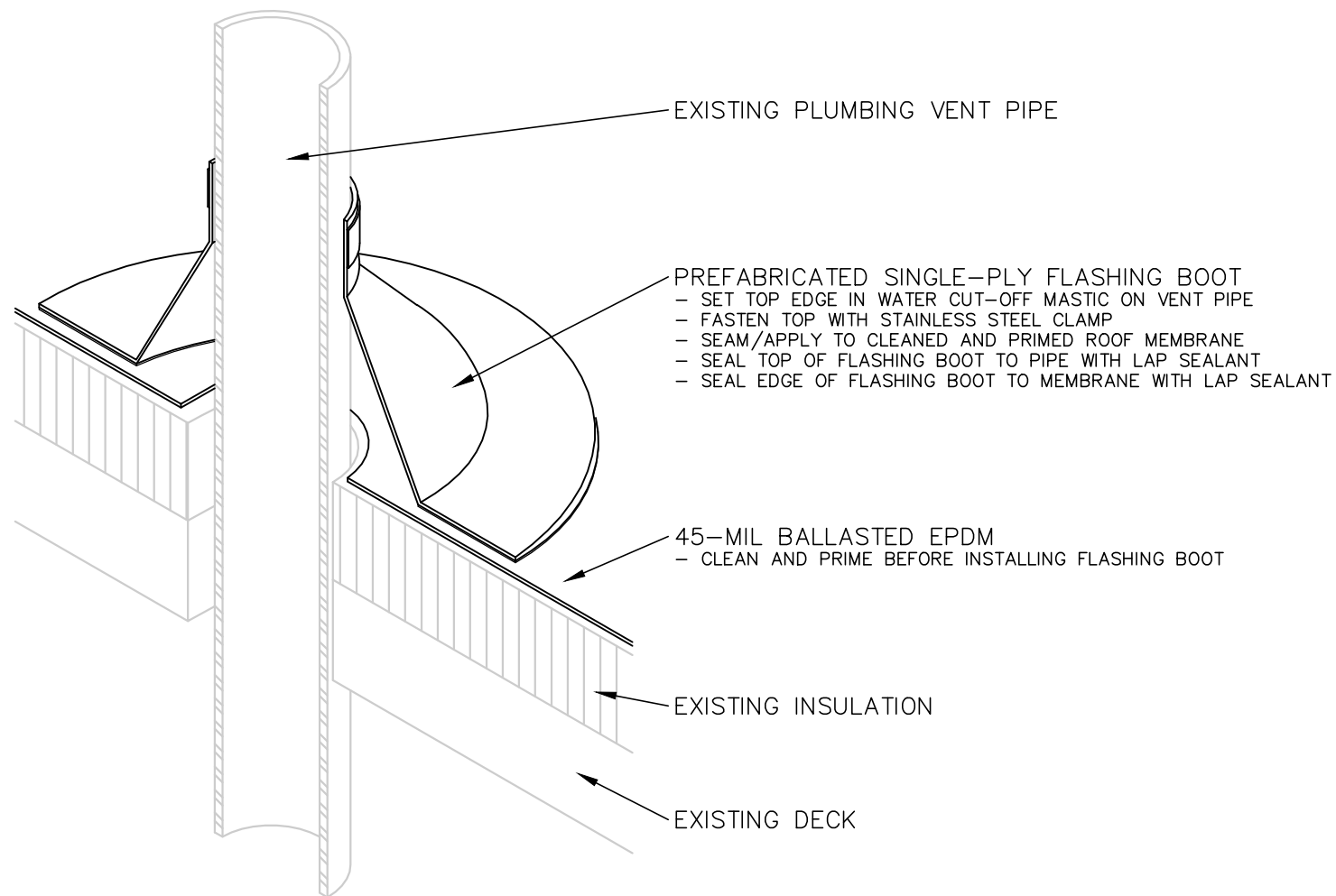
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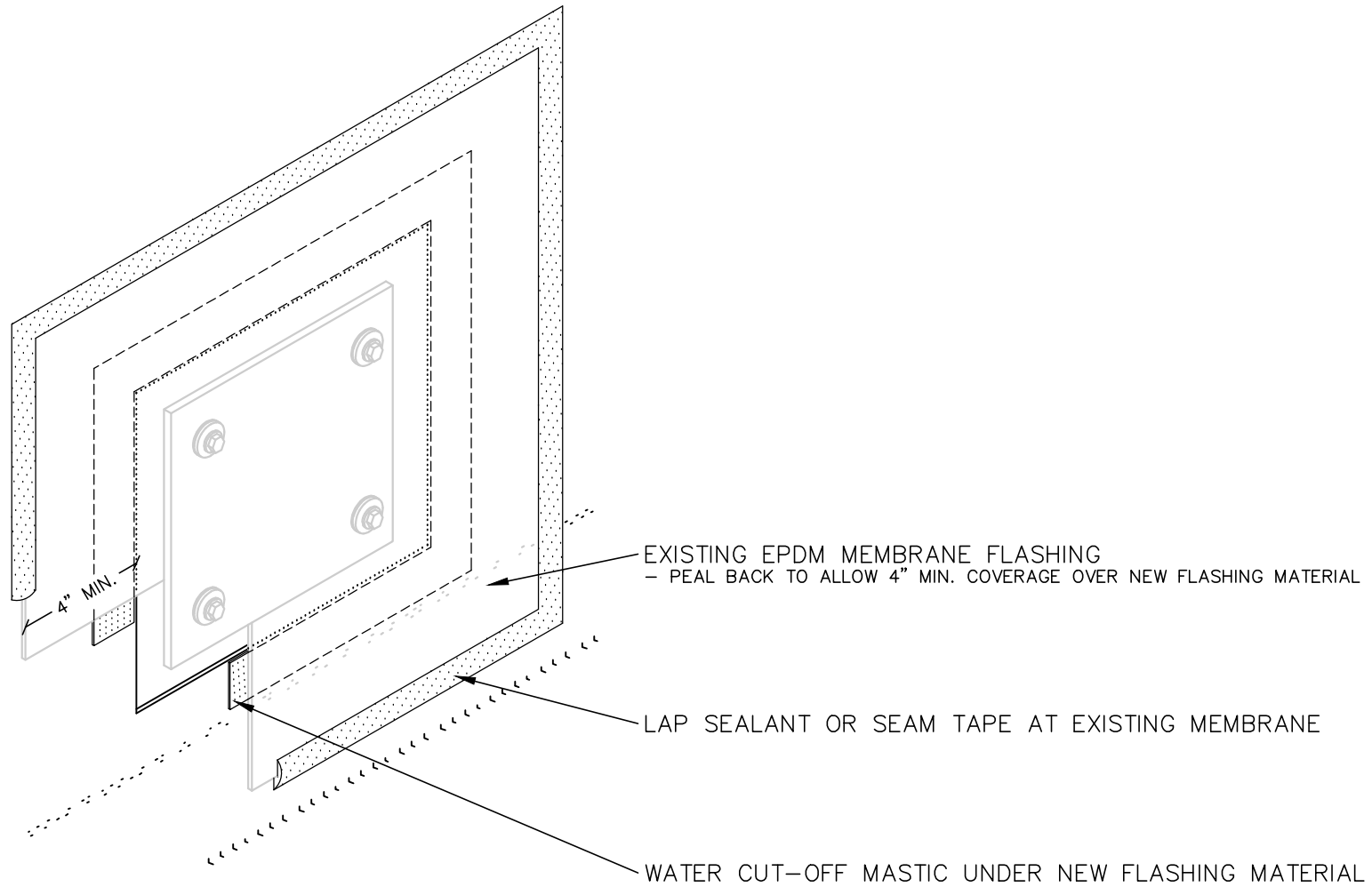
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NOTES:

- EXISTING MEMBRANE TO COVER NEW MEMBRANE BY 4" MINIMUM.
- DETAIL OCCURS ON EAST SIDE OF ELEVATOR PENTHOUSE.

