Local Public Agency
Formal Contract

PROPOSAL SUBMITTED BY		
LEN COX & SONS EXCAVATING		
Contractor's Name		
1203 THEODORE ST		
Street		P.O. Box
CREST HILL	IL	60403
City	State	Zip Code

STATE OF ILLINOIS

COUNTY WILL

VILLAGE OF HOMER GLEN

(Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE 2019 DRAINAGE IMPROVEMENTS

SECTION NO.

TYPES OF FUNDS LOCAL

☐ SPECIFICATIONS (required) ☐ PLANS (required) ☐ CONTRACT BOND (when required)

For Municipal Projects

Submitted/Approved/Passed

☒Mayor ☐President of Board of Trustees ☐Municipal Official

10/09/19

Date

County WILL

Local Public Agency VILLAGE OF HOMER GLEN

Section Number

Route 2019 DRAINAGE IMPROVEMENTS

1. THIS AGREEMENT, made and concluded the 9TH day of OCTOBER, 2019 (Month and Year), between the VILLAGE of HOMER GLEN acting by and through its _____ known as the party of the first part, and LEN COX & SONS EXCAVATING his/their executors, administrators, successors or assigns, known as the party of the second part.

2. Witnesseth: That for and in consideration of the payments and agreements mentioned in the Proposal hereto attached, to be made and performed by the party of the first part, and according to the terms expressed in the Bond referring to these presents, the party of the second part agrees with said party of the first part at his/their own proper cost and expense to do all the work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this agreement and the requirements of the Engineer under it.

3. And it is also understood and agreed that the LPA Formal Contract Proposal, Special Provisions, Affidavit of Illinois Business Office, Apprenticeship or Training Program Certification, and Contract Bond hereto attached, and the Plans for Section _____, in HOMER GLEN, approved by the Illinois Department of Transportation on _____, are essential documents of this contract and are a part hereof.

4. IN WITNESS WHEREOF, The said parties have executed these presents on the date above mentioned.

Attest: _____ Clerk

(Seal)

~~Attest:~~ Notary

Melissa M. Colletti

~~Secretary~~

The 9TH of OCTOBER, 2019

By _____

Party of the First Part

(If a Corporation)

Corporate Name _____

By _____

President Party of the Second Part

(If a Co-Partnership)

_____

Partners doing Business under the firm name of

Len Cox & Sons Excavating

Party of the Second Part

(If an individual)

Jason Cox Partner

~~Party of the Second Part~~

MELISSA M COLLETTI
Official Seal
Notary Public - State of Illinois
My Commission Expires Aug 2, 2020

Bond No. 107126467
Executed in Four (4) Counterparts

Contract Bond

Route 2019 DRAINAGE IMPROVEMENTS
County WILL
Local Agency VILLAGE OF HOMER GLEN
Section

We , LEN COX & SONS EXCAVATING 1203 THEODORE ST, CREST HILL, IL 60403

a/an) ☐ Individual ☒ Co-partnership ☐ Corporation organized under the laws of the State of Illinois ,

as PRINCIPAL, and Travelers Casualty and Surety Company of America

One Tower Square, Hartford, CT 06183 as SURETY,

are held and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of
FOUR HUNDRED NINETY SIX THOUSAND - SIX HUNDRED SIXTY SEVEN DOLLARS AND 40/100----------

---------- Dollars ($496,667.40), lawful money of the United States, well and truly to be paid unto said LA, for the payment of which we bind ourselves, our heirs, executors, administrators, successors, jointly to pay to the LA this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said Principal has entered into a written contract with the LA acting through its awarding authority for the construction of work on the above section, which contract is hereby referred to and made a part hereof, as if written herein at length, and whereby the said Principal has promised and agreed to perform said work in accordance with the terms of said contract, and has promised to pay all sums of money due for any labor, materials, apparatus, fixtures or machinery furnished to such Principal for the purpose of performing such work and has further agreed to pay all direct and indirect damages to any person, firm, company or corporation suffered or sustained on account of the performance of such work during the time thereof and until such work is completed and accepted; and has further agreed that this bond shall inure to the benefit of any person, firm, company or corporation to whom any money may be due from the Principal, subcontractor or otherwise for any such labor, materials, apparatus, fixtures or machinery so furnished and that suit may be maintained on such bond by any such person, firm, company or corporation for the recovery of any such money.

NOW THEREFORE, if the said Principal shall well and truly perform said work in accordance with the terms of said contract, and shall pay all sums of money due or to become due for any labor, materials, apparatus, fixtures or machinery furnished to him for the purpose of constructing such work, and shall commence and complete the work within the time prescribed in said contract, and shall pay and discharge all damages, direct and indirect, that may be suffered or sustained on account of such work during the time of the performance thereof and until the said work shall have been accepted, and shall hold the LA and its awarding authority harmless on account of any such damages and shall in all respects fully and faithfully comply with all the provisions, conditions and requirements of said contract, then this obligation to be void; otherwise to remain in full force and effect.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this 9TH day of OCTOBER A.D. 2019

PRINCIPAL

Len Cox & Sons Excavating
(Company Name)

By: Jason T. Cox Partner; Jason T. Cox
(Signature & Title)

Attest: _____
(Signature & Title)

_____
(Company Name)

By: _____
(Signature & Title)

Attest: _____
(Signature & Title)

(If PRINCIPAL is a joint venture of two or more contractors, the company names and authorized signature of each contractor must be affixed.)

STATE OF ILLINOIS,

COUNTY OF _____

I, _____, a Notary Public in and for said county, do hereby certify that

_____

_____
(Insert names of individuals signing on behalf or PRINCIPAL)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 9TH day of October A.D. 2019

My commission expires _____ _____ (SEAL)
Notary Public

SURETY

Travelers Casualty and Surety Company of America
(Name of Surety)

By: William Reidinger (Signature of Attorney-in-Fact)

(SEAL)

STATE OF ILLINOIS,

COUNTY OF COOK

I, Thomas Green, a Notary Public in and for said county, do hereby certify that

William Reidinger; Attorney-in-Fact

_____
(Insert names of individuals signing on behalf or SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 9TH day of OCTOBER A.D. 2019

My commission expires February 23rd, 2023 _____ (SEAL)
Notary Public

OFFICIAL SEAL
THOMAS GREEN
Notary Public – State of Illinois
My Commission Expires February 23, 2023

Approved this 9TH day of OCTOBER, A.D. 2019

Attest:

_____
Village Clerk

VILLAGE OF HOMER GLEN
(Awarding Authority)

_____
Municipal Officer

TRAVELERS	**Travelers Casualty and Surety Company of America** **Travelers Casualty and Surety Company** **St. Paul Fire and Marine Insurance Company** **Farmington Casualty Company**

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, St. Paul Fire and Marine Insurance Company, and Farmington Casualty Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint William Reidinger of **Schaumburg, IL** , their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law, including the following bond:

Surety Bond No.: 107126467
OR
Project Description: 2019 Drainage Improvements

Principal: Len Cox & Sons Excavating
Obligee: Village of Homer Glen

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **6th** day of **May, 2019.**

State of Connecticut

By: _____
Robert L. Raney, Senior Vice President

City of Hartford ss.

On this the **6th** day of **May, 2019**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2021**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 9th day of October, 2019.

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-In-Fact and the details of the bond to which this Power of Attorney is attached.

SCHEDULE OF PRICES

County WILL
Local Public Agency HOMER GLEN
Section
Route 2019 DRAINAGE IMP

Schedule for Multiple Bids

Combination Letter	Sections Included in Combinations	Total

Schedule for Single Bid

(For complete information covering these items, see plans and specifications)

Bidder's Proposal for making Entire Improvements	$496,667.40

Item No.	Items	Unit	Quantity	Unit Price	Total
1	CONSTRUCTION LAYOUT	L SUM	1	$ 3,500.00	$ 3,500.00
2	TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM	1	$ 4,250.00	$ 4,250.00
3	PERIMETER EROSION BARRIER	FOOT	1911	$ 2.50	$ 4,777.50
4	INLET AND PIPE PROTECTION	EACH	4	$ 225.00	$ 900.00
5	TEMPORARY DITCH CHECKS	FOOT	536	$ 15.00	$ 8,040.00
6	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	40	$ 75.00	$ 3,000.00
7	CLEARING AND GRUBBING	SQ YD	126	$ 40.00	$ 5,040.00
8	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNITS	265	$ 18.00	$ 4,770.00
9	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNITS	116	$ 25.00	$ 2,900.00
10	REMOVE AND REINSTATE LANDSCAPE ITEMS	SQ YD	309	$ 15.00	$ 4,635.00
11	REMOVE AND REINSTATE FENCE	FOOT	100	$ 80.00	$ 8,000.00
12	EXPLORATION TRENCH	FOOT	149	$ 25.00	$ 3,725.00
13	REMOVING MANHOLES	EACH	4	$ 600.00	$ 2,400.00
14	REMOVING INLETS	EACH	2	$ 175.00	$ 350.00
15	REMOVING CATCH BASINS	EACH	1	$ 500.00	$ 500.00
16	STORM SEWER REMOVAL, 12" PVC	FOOT	747	$ 15.00	$ 11,205.00
17	STORM SEWER REMOVAL, 15" PVC	FOOT	229	$ 15.00	$ 3,435.00
18	STORM SEWER REMOVAL, 10" PVC	FOOT	88	$ 12.00	$ 1,056.00
19	STORM SEWER REMOVAL, 15" RCP	FOOT	388	$ 18.00	$ 6,984.00
20	PORTLAND CEMENT CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT - 6"	SQ YD	113	$ 110.00	$ 12,430.00
21	REMOVING FLARED END SECTIONS	EACH	1	$ 250.00	$ 250.00
22	TREE TRUNK PROTECTION	EACH	1	$ 250.00	$ 250.00
23	AGGREGATE SHOULDERS TYPE B	SQ YD	22	$ 20.00	$ 440.00
24	PAVEMENT PATCHING - CLASS D PATCHES, TYPE 2, FULL DEPTH 7"	SQ YD	15	$ 255.00	$ 3,825.00
25	PAVEMENT PATCHING - CLASS D PATCHES, TYPE 2, FULL DEPTH 4"	SQ YD	74	$ 85.00	$ 6,290.00
26	TRENCH BACKFILL	CY YD	73	$ 48.00	$ 3,504.00
27	PROPOSED CONENCTION TO EXISTING MANHOLES	EACH	2	$ 650.00	$ 1,300.00
28	STORM SEWERS, CLASS A, TYPE 1, 12"	FOOT	150	$ 53.00	$ 7,950.00
29	STORM SEWERS, CLASS A, TYPE 1, 24"	FOOT	339	$ 64.00	$ 21,696.00
30	STORM SEWERS, CLASS A, TYPE 2, 12"	FOOT	8	$ 53.00	$ 424.00
31	STORM SEWERS, CLASS A, TYPE 1, 18"	FOOT	105	$ 58.00	$ 6,090.00
32	STORM SEWERS, CLASS A, TYPE 2, 36"	FOOT	1281	$ 93.00	$ 119,133.00
33	PIPE UNDER DRAINS, 4"	FOOT	5	$ 125.00	$ 625.00
34	CATCH BASINS, TYPE A, 4' DIA. TYPE 8 GRATE	EACH	4	$ 1,950.00	$ 7,800.00
35	CATCH BASINS, TYPE C, 2' DIA. TYPE 8 GRATE	EACH	3	$ 1,175.00	$ 3,525.00
36	MANHOLES, TYPE A, 4' DIA. TYPE 1 FRAME & GRATE CLOSED LID	EACH	1	$ 2,300.00	$ 2,300.00
37	MANHOLES, TYPE A, 6' DIA. TYPE 1 FRAME & GRATE CLOSED LID	EACH	4	$ 4,050.00	$ 16,200.00
38	MANHOLES, TYPE A, 6' DIA. TYPE 1 FRAME & GRATE OPEN LID	EACH	2	$ 4,050.00	$ 8,100.00
39	MANHOLES, TYPE A, 7' DIA. TYPE 1 FRAME & GRATE OPEN LID	EACH	1	$ 10,000.00	$ 10,000.00
40	MANHOLES, TYPE A, 7' DIA. TYPE 8 GRATE	EACH	1	$ 9,550.00	$ 9,550.00
41	MANHOLES, TYPE A, 8' DIA. DUAL TYPE 1 FRAME & GRATE CLOSED LID, RESTRICTOR PLATE	EACH	1	$ 15,000.00	$ 15,000.00
42	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12 INCH	EACH	1	$ 1,000.00	$ 1,000.00
43	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 24 INCH	EACH	1	$ 1,250.00	$ 1,250.00
44	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 36 INCH	EACH	3	$ 2,000.00	$ 6,000.00

RETURN WITH BID

Bidder's Proposal for making Entire Improvements	$496,667.40

Item No.	Items	Unit	Quantity	Unit Price	Total
45	GRADING AND SHAPING DITCHES	FOOT	1595	$ 20.00	$ 31,900.00
46	ADJUSTING WATER SERVICE LINES	FOOT	40	$ 65.00	$ 2,600.00
47	ADJUSTING SANITARY SEWERS (8" DIAMETER OR LESS)	FOOT	40	$ 200.00	$ 8,000.00
48	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	CY YD	100	$ 30.00	$ 3,000.00
49	TOPSOIL EXCAVATION AND PLACEMENT	CY YD	1179	$ 47.00	$ 55,413.00
50	FURNISHED EXCAVATION	CY YD	80	$ 15.00	$ 1,200.00
51	ARTICULATED BLOCK REVENTMENT MAT (SPECIAL)	SQ YD	55	$ 50.00	$ 2,750.00
52	TREES, DECIDIOUS, BALLED AND BURLAPPED, 2.5" CALIPER	EACH	27	$ 475.00	$ 12,825.00
53	SEEDING, CLASS 1A	SQ YD	10606	$ 0.65	$ 6,893.90
54	EROSION CONTROL BLANKET - DS75	SQ YD	10606	$ 2.00	$ 21,212.00
55	STONE RIPRAP, CLASS A1	SQ YD	39	$ 78.00	$ 3,042.00
56	STONE RIPRAP, CLASS A4	SQ YD	39	$ 88.00	$ 3,432.00
					$ -
					$ -
					$ -
					$ -

CONTRACTOR CERTIFICATIONS

County WILL
Local Public Agency HOMER GLEN
Section Number
Route 2019 DRAINAGE IMP.

The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder.

1. **Debt Deliquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedures established by the appropriate revenue Act, its liability for the tax or the amount of tax. Making a false statement voids the contract and allows the Department to recover all amounts paid to the individual or entity under the contract in a civil action.

2. **Bid-Rigging or Bid Rotating.** The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the Department by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

   A violation of Section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

   A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

3. **Bribery.** The bidder or contractor or subcontractor, respectively, certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.

4. **Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart I of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative Code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be cancelled.

RETURN WITH BID

County WILL
Local Public Agency HOMER GLEN
Section Number
Route 2019 DRAINAGE IMP.

SIGNATURES

(If an individual)

Signature of Bidder _____

Business Address _____

(If a partnership)

Firm Name Len Cox & Sons Excavating

Signed By _____

Business Address 1203 Theodore Street, Crest Hill, IL 60403

Inset Names and Addressed of All Partners
Leonard C. Cox 6 Coventry Chase, Joliet, IL 60431
John C. Cox 979 Horseshoe Drive, Joliet, IL 60435
Joseph A. Cox 21133 Alicia Ct, Lockport, IL 60441
Jason T. Cox 712 Westridge Rd, Joliet, IL 60431
Jeffrey L. Cox 904 Barber Ln, Joliet, IL 60435

(If a corporation)

Corporate Name _____

Signed By _____
President

Business Address _____

Insert Names of Officers
President _____
Secretary _____
Treasurer _____

Attest: _____
Secretary

Illinois Department of Transportation

Apprenticeship or Training Program Certification

Return with Bid

Route 2019 DRAINAGE IMP.
County WILL
Local Agency HOMER GLEN
Section

All contractors are required to complete the following certification:

☒ For this contract proposal or for all groups in this deliver and install proposal.

☐ For the following deliver and install groups in this material proposal:

Illinois Department of Transportation policy, adopted in accordance with the provisions of the Illinois Highway Code, requires this contract to be awarded to the lowest responsive and responsible bidder. The award decision is subject to approval by the Department. In addition to all other responsibility factors, this contract or deliver and install proposal requires all bidders and all bidders' subcontractors to disclose participation in apprenticeship or training programs that are (1) approved by and registered with the United States Department of Labor's Bureau of Apprenticeship and Training, and (2) applicable to the work of the above indicated proposals or groups. Therefore, all bidders are required to complete the following certification:

I. Except as provided in paragraph IV below, the undersigned bidder certifies that it is a participant, either as an individual or as part of a group program, in an approved apprenticeship or training program applicable to each type of work or craft that the bidder will perform with its own employees.

II. The undersigned bidder further certifies for work to be performed by subcontract that each of its subcontractors submitted for approval either (A) is, at the time of such bid, participating in an approved, applicable apprenticeship or training program; or (B) will, prior to commencement of performance of work pursuant to this contract, establish participation in an approved apprenticeship or training program applicable to the work of the subcontract.

III. The undersigned bidder, by inclusion in the list in the space below, certifies the official name of each program sponsor holding the Certificate of Registration for all of the types of work or crafts in which the bidder is a participant and that will be performed with the bidder's employees. Types of work or craft that will be subcontracted shall be included and listed as subcontract work. The list shall also indicate any type of work or craft job category for which there is no applicable apprenticeship or training program available.

Chicagoland Laborers Apprenctice & Training Program
Operators Local 150 Apprentice & Training Program
Teamsters Joint Council 25 Apprentice & Training Program

IV. Except for any work identified above, any bidder or subcontractor that shall perform all or part of the work of the contract or deliver and install proposal solely by individual owners, partners or members and not by employees to whom the payment of prevailing rates of wages would be required, check the following box, and identify the owner/operator workforce and positions of ownership. ☐

_____

_____

_____

_____

_____

The requirements of this certification and disclosure are a material part of the contract, and the contractor shall require this certification provision to be included in all approved subcontracts. The bidder is responsible for making a complete report and shall make certain that each type of work or craft job category that will be utilized on the project is accounted for and listed. The Department at any time before or after award may require the production of a copy of each applicable Certificate of Registration issued by the United States Department of Labor evidencing such participation by the contractor and any or all of its subcontractors. In order to fulfill the participation requirement, it shall not be necessary that any applicable program sponsor be currently taking or that it will take applications for apprenticeship, training or employment during the performance of the work of this contract or deliver and install proposal.

Bidder: Len Cox & Sons Excavating

By: Jason Cox
(Signature)

Address: 1203 Theodore St Crest Hill, IL

Title: Partner

RETURN WITH BID

Illinois Department of Transportation

Affidavit of Illinois Business Office

County WILL
Local Public Agency HOMER GLEN
Section Number
Route 2019 DRAINAGE IMP.

State of Illinois)
) ss.
County of Will)

I, Jason T. Cox (Name of Affiant) of Joliet (City of Affiant), Illinois (State of Affiant),

being first duly sworn upon oath, states as follows:

1. That I am the a Partner (officer or position) of Len Cox & Sons Excavating (bidder).
2. That I have personal knowledge of the facts herein stated.
3. That, if selected under this proposal, Len Cox & Sons Excavating (bidder), will maintain a business office in the State of Illinois which will be located in Will County, Illinois.
4. That this business office will serve as the primary place of employment for any persons employed in the construction contemplated by this proposal.
5. That this Affidavit is given as a requirement of state law as provided in Section 30-22(8) of the Illinois Procurement Code.

Jason T. Cox
(Signature)

Jason T. Cox
(Print Name of Affiant)

This instrument was acknowledged before me on 25th day of September, 2019.

(SEAL)

Arthur W Rambo Jr
Official Seal
Notary Public-State of Illinois
My Commisssion Expires
February 16, 2022

(Signature of Notary Public)

Illinois Department of Transportation

Bureau of Construction
2300 South Dirksen Parkway/Room 322
Springfield, Illinois 62764

Affidavit of Availability
For the Letting of _____

Instructions: Complete this form by either typing or using black ink. "Authorization to Bid" will not be issued unless both sides of this form are completed in detail. Use additional forms as needed to list all work.

Part I. Work Under Contract

List below all work you have under contract as either a prime contractor or a subcontractor. It is required to include all pending low bids not yet awarded or rejected. In a joint venture, list only that portion of the work which is the responsibility of your company. The uncompleted dollar value is to be based upon the most recent engineer's or owners estimate, and must include work subcontracted to others. If no work is contracted, show **NONE**.

	1	2	3	4	5	
Contract Number	Brandon & Noel	Animal Control	Garnsey Water	Jupiter Warehouse		
Contract With	Gallagher Asphalt	Will County	Joliet	FCL Bidrs		
Estimated Completion Date	11/15/19	7/1519	11/15/19	10-15-19		
Total Contract Price	710,000.00	363,000.00	986,765.06	3,093,486.00		Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor		0.00	986,765.06	3,093,486.00		4,080,251.06
Uncompleted Dollar Value if Firm is the Subcontractor	665,000.00	20,000.00	169,785.00	175,000.00		1,029,785.00
				Total Value of All Work		5,110,036.06

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show NONE.

						Accumulated Totals
Earthwork						0.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix						0.00
HMA Paving	0.00					0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces						0.00
Highway,R.R. and Waterway Structures						0.00
Drainage	665,000.00	15,000.00	25,000.00	175,000.00		880,000.00
Electrical						0.00
Cover and Seal Coats						0.00
Concrete Construction						0.00
Landscaping	0.00	5,000.00	15,435.00			20,435.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling						0.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List)						0.00
						0.00
						0.00
Totals	665,000.00	20,000.00	40,435.00	175,000.00	0.00	900,435.00

Disclosure of this information is **REQUIRED** to accomplish the statutory purpose as outlined in the "Illinois Procurement Code". Failure to comply will result in non-issuance of an "Authorization To Bid." This form has been approved by the State Forms Management Center.

Part III. Work Subcontracted to Others

For each contract described in Part I, list all the work you have subcontracted to others.

	1	2	3	4	5
Subcontractor			Matthews Paving		
Type of Work			Paving		
Subcontract Price			92,500.00		
Amount Uncompleted			92,500.00		
Subcontractor			Davis Concrete		
Type of Work			Concrete		
Subcontract Price			36,850.00		
Amount Uncompleted			36,850.00		
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted	0.00	0.00	129,350.00	0.00	0.00

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates

Subscribed and sworn to before me

this 25th day of September , 2019 .

Notary Public

My commission expires: 2/16/2022

(Notary Seal)

Arthur W Rambo Jr
Official Seal
Notary Public-State of Illinois
My Commisssion Expires
February 16, 2022

Type or Print Name: Jason T. Cox — Partner

Officer or Director — Title

Signed

Company: Len Cox & Sons Excavating

Address: 1203 Theodore Street

Crest Hill, IL 60403

Illinois Department of Transportation

Local Agency Proposal Bid Bond

Route 2019 Drainage IMP.
County WILL
Local Agency HOMER GLEN
Section

RETURN WITH BID

PAPER BID BOND

WE Len Cox & Sons Excavating 1203 Theodore Street, Crest Hill, IL 60403 as PRINCIPAL,

and Travelers Casualty and Surety Company of America One Tower Square , Hartford, CT 06183 as SURETY,

are held jointly, severally and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of 5% of the total bid price, or for the amount specified in the proposal documents in effect on the date of invitation for bids whichever is the lesser sum. We bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly pay to the LA this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said PRINCIPAL is submitting a written proposal to the LA acting through its awarding authority for the construction of the work designated as the above section.

THEREFORE if the proposal is accepted and a contract awarded to the PRINCIPAL by the LA for the above designated section and the PRINCIPAL shall within fifteen (15) days after award enter into a formal contract, furnish surety guaranteeing the faithful performance of the work, and furnish evidence of the required insurance coverage, all as provided in the "Standard Specifications for Road and Bridge Construction" and applicable Supplemental Specifications, then this obligation shall become void; otherwise it shall remain in full force and effect.

IN THE EVENT the LA determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the LA acting through its awarding authority shall immediately be entitled to recover the full penal sum set out above, together with all court costs, all attorney fees, and any other expense of recovery.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this 25th day of September, 2019

Principal

Len Cox & Sons Excavating
(Company Name)

By: Jason Cox
(Signature and Title)

(Company Name)

By:
(Signature and Title)

(If PRINCIPLE is a joint venture of two or more contractors, the company names, and authorized signatures of each contractor must be affixed.)

Surety

Travelers Casualty and Surety Company of America
(Name of Surety)

By: William Reidinger
(Signature of Attorney-in-Fact)

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA HARTFORD, CONN.

STATE OF Illinois
COUNTY OF DuPage

I, Joseph Halleran, a Notary Public in and for said county,
do hereby certify that and William Reidinger
(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instruments as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 25th day of September, 2019

My commission expires July 24, 2023

Joseph Halleran (Notary Public)

OFFICIAL SEAL
JOSEPH HALLERAN
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES:07/24/23

ELECTRONIC BID

☐ **Electronic bid bond is allowed (box must be checked by LA if electronic bid bond is allowed)**
The Principal may submit an electronic bid bond, in lieu of completing the above section of the Proposal Bid Bond Form. By providing an electronic bid bond ID code and signing below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the LA under the conditions of the bid bond as shown above. (If PRINCIPAL is a joint venture of two or more contractors, an electronic bid bond ID code, company/Bidder name title and date must be affixed for each contractor in the venture.)

Electronic Bid Bond ID Code

(Company/Bidder Name)

(Signature and Title)

Date

BLR 12230 (Rev. 7/05)

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company
Farmington Casualty Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, St. Paul Fire and Marine Insurance Company, and Farmington Casualty Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint William Reidinger of **Schaumburg, IL** , their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law, including the following bond:

Surety Bond No.: Bid Bond
OR
Project Description: 2019 Drainage Improvements

Principal: Len Cox & Sons Excavating
Obligee: Village of Homer Glen

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **6th** day of **May, 2019.**

State of Connecticut

By: _____
Robert L. Raney, Senior Vice President

City of Hartford ss.

On this the **6th** day of **May, 2019**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2021**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 25th day of September, 2019.

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-In-Fact and the details of the bond to which this Power of Attorney is attached.

VILLAGE OF HOMER GLEN
2019 HOMER GLEN DRAINAGE IMPROVEMENTS

TABLE OF CONTENTS

Illinois Department of Transportation

Check Sheet For Recurring Special Provisions

The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Recurring Special Provisions

Check Sheet #			Page No.
1	☐	Additional State Requirements for Federal-Aid Construction Contracts	75
2	☐	Subletting of Contracts (Federal-Aid Contracts)	78
3	☐	EEO	79
4	☐	Specific EEO Responsibilities Non Federal-Aid Contracts	89
5	☐	Required Provisions - State Contracts	94
6	☐	Asbestos Bearing Pad Removal	100
7	☐	Asbestos Waterproofing Membrane and Asbestos HMA Surface Removal	101
8	☐	Temporary Stream Crossings and In-Stream Work Pads	102
9	☐	Construction Layout Stakes Except for Bridges	103
10	☐	Construction Layout Stakes	106
11	☐	Use of Geotextile Fabric for Railroad Crossing	109
12	☐	Subsealing of Concrete Pavements	111
13	☐	Hot-Mix Asphalt Surface Correction	115
14	☐	Pavement and Shoulder Resurfacing	117
15	☐	Patching with Hot-Mix Asphalt Overlay Removal	118
16	☐	Polymer Concrete	120
17	☐	PVC Pipeliner	122
18	☐	Bicycle Racks	123
19	☐	Temporary Portable Bridge Traffic Signals	125
20	☐	Work Zone Public Information Signs	127
21	☐	Nighttime Inspection of Roadway Lighting	128
22	☐	English Substitution of Metric Bolts	129
23	☐	Calcium Chloride Accelerator for Portland Cement Concrete	130
24	☐	Quality Control of Concrete Mixtures at the Plant	131
25	☒	Quality Control/Quality Assurance of Concrete Mixtures	139
26	☐	Digital Terrain Modeling for Earthwork Calculations	155
27	☐	Reserved	157
28	☐	Preventive Maintenance - Bituminous Surface Treatment	158
29	☐	Reserved	164
30	☐	Reserved	165
31	☐	Reserved	166
32	☐	Temporary Raised Pavement Markers	167
33	☐	Restoring Bridge Approach Pavements Using High-Density Foam	168
34	☐	Portland Cement Concrete Inlay or Overlay	171
35	☐	Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	175

The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Local Roads And Streets Recurring Special Provisions

Check Sheet #			Page No.
LRS 1		**Reserved**	179
LRS 2	☐	Furnished Excavation	180
LRS 3	☒	Work Zone Traffic Control Surveillance	181
LRS 4	☐	Flaggers in Work Zones	182
LRS 5	☒	Contract Claims	183
LRS 6	☒	Bidding Requirements and Conditions for Contract Proposals	184
LRS 7	☐	Bidding Requirements and Conditions for Material Proposals	190
LRS 8		**Reserved**	196
LRS 9	☐	Bituminous Surface Treatments	197
LRS 10		**Reserved**	198
LRS 11	☒	Employment Practices	199
LRS 12	☒	Wages of Employees on Public Works	201
LRS 13	☒	Selection of Labor	203
LRS 14	☐	Paving Brick and Concrete Paver Pavements and Sidewalks	204
LRS 15	☒	Partial Payments	207
LRS 16	☐	Protests on Local Lettings	208
LRS 17	☒	Substance Abuse Prevention Program	209
LRS 18	☐	Multigrade Cold Mix Asphalt	210

INDEX OF SPECIAL PROVISIONS

SPECIAL PROVISIONS

The following Special Provisions supplement the Illinois Department of Transportation's (IDOT) "Standard Specifications for Road and Bridge Construction," adopted April 1, 2016 (hereinafter referred to as the "Standard Specifications"); the "Manual on Uniform Traffic Control Devices for Streets and Highways" the "Manual of Test Procedures of Materials", in effect on the date of invitation for bids; and the "Supplemental Specifications and Recurring Special Provisions," latest edition as indicated on the Check Sheet included herein, which apply to and govern the construction of the Village of Homer Glen Drainage Improvements, Will County, Illinois. In case of conflict with any part or parts of the Standard Specifications, these Special Provisions shall take precedence and shall govern.

DESCRIPTION OF WORK

The work shall include, but not limited to, grading and shaping ditches, storm sewer removal, storm sewer installation, seeding, tree removal, stone riprap, concrete spillway repair, furnished excavation and all incidental and collateral work necessary to complete the project as described herein.

LOCATION OF WORK

This project consists of the re-establishment and improvement of various drainage areas within the Village of Homer Glen, Will County, Illinois as shown in the plans. The following is a list of drainage areas included in the project:

Location 2: storm sewer will be removed and replaced in approximately the same location along the rear yards of the residential properties on Stonehaven Lane and along Crème Road and Hellen Lane. Grading and shaping of ditches will be located along 147th Street and in the rear yards of Stonehaven Lane.

Location 3A: repair of an existing concrete spillway and furnished excavation will take place at the southeast portion of the existing detention basin in the County Woods Subdivision. The site is accessible from Graceland Court.

COMPLETION DATE

The Contractor shall complete all work on or before the Completion Date of December 31, 2019, in accordance with Article 108.05 of the Standard Specifications.

MAINTENANCE OF ROADWAYS

Effective: September 30, 1985 Revised: November 1, 1996

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the

improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

REDUCTION IN THE SCOPE OF WORK

The "Schedule of Prices" is a listing of work to be completed. However, due to budgetary constraints the awarding authority reserves the right to substantially reduce the scope of work to be completed under the contract in accordance with Article 104.02 of the Standard Specifications. No allowance will be made for delay or anticipated profits as the result of a decrease in the quantities of work to be performed.

WORK HOURS

The Contractor must adhere to the Village ordinance work time schedule. Construction work may be performed Monday thru Friday during the hours of 7:00 a.m. to 7:00 p.m. No work may be performed prior or beyond this period without prior written approval from the Village.

APPLICATION FOR PAYMENT

Application for payment to the Contractor shall be in accordance with the Standard Specifications and these Special Provisions. The Engineer will submit Engineer's Payment Estimate for partial payment to the Contractor for the work completed to the Village not more than once monthly on a date specified by the Village.

The Contractor shall procure from each subcontractor and supplier of material or labor a waiver of any claim which they may have under the mechanics lien laws of the state in which the work is located, to insure the Village immunity from mechanics liens on subcontractors in carrying out the contract and any work orders for additions thereto, all as a condition of any payment by the Village. Any payments made by the Village without requiring compliance with this paragraph shall not be construed as a Waiver by the Village of the right to require compliance with this paragraph as a condition to later payments.

The Contractor shall submit Partial Waivers of Lien from all subcontractors and suppliers with each partial payment estimate and Contractor's Affidavit for subcontractors and suppliers with second payment request for the previous payment estimates and then with all subsequent payment estimates. The Contractor shall furnish with his final application for payment a complete release of all liens arising out of this contract, or receipts in full in lieu thereof and an affidavit that the releases and receipts include all labor and material for which a lien could be filed.

CLEAN CONSTRUCTION AND DEMOLITION DEBRIS

In addition to the requirements of Section 107.01 of the Standard Specifications, the Contractor shall be responsible for the proper removal and disposal of excavated materials from the project site. The Contractor will meet all requirements set forth by the IEPA and Public Act 96-1416 for Clean Construction and Demolition Debris which may include, but not limited to, field and laboratory analyses, certification from a licensed Professional Engineer, dumping fees and documentation. This work shall not be paid for separately, but will be included in the cost of the contract. No additional compensation will be allowed.

CONSTRUCTION LAYOUT

This work shall be performed in accordance with the IDOT Supplemental Specifications and Recurring Special Provisions (SSRSP) – Adopted January 1, 2018, and as directed by the Engineer. This work shall be performed per the Special Provision for Construction Layout Stakes outlined in the SSRSP.

This work shall be measured for payment in LUMP SUM.

This work shall be paid for at the contract unit price per LUMP SUM for CONSTRUCTION LAYOUT which price shall include all materials, labor and equipment to complete the items listed in the SSRSP for Construction Layout Stakes.

TRAFFIC CONTROL AND PROTECTION, SPECIAL

All roads shall be kept open to traffic. The Contractor should take particular note of the applicable portions of Article 107.14 of the Standard Specifications. All signs, except those referring to daily lane closures, shall be post mounted in accordance with Standard 701901 for all projects that exceed four-day duration. Construction signs referring to daytime lane closures during working hours shall be removed, covered or turned away from the view of the motorists during non-working hours.

The Contractor shall furnish, erect, maintain and remove all signs, barricades, flaggers and other traffic control devices as may be necessary for the purpose of regulating, warning or guiding traffic. Placement and maintenance of all traffic control devices shall be in accordance with the applicable parts of Section 701 of the Standard Specifications, the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways and the Highway Standard contained herein.

Special attention is called to Article 107.09 and Section 701 of the Standard Specifications and the following Highways Standards, Supplemental Specifications, Details, Quality Standard for Work Zone Traffic Control Devices, Recurring Special Provisions, and Special Provisions contained herein relating to traffic control. It should be noted that Type I or Type II barricades will be required adjacent to the pavement in areas where a drop off of 3" or more occurs in accordance with Article 701.07.

Standards

701006, 701501, 701801, 701901 and BLR 18-5

Special Provisions

General Notes – Traffic Control and Protection

Maintenance of Roadways
Construction and Maintenance Signs (LR 702)
Traffic Control Deficiency Deduction (BDE 08273)
Work Zone Traffic Control (LRS#3)
Flaggers in Work Zones (LRS#4)

The Contractor shall contact the Village of Homer Glen, at least 72 hours in advance of beginning work. Construction operations shall be conducted in a manner such that streets will be open to traffic at all times, and access to abutting property shall be maintained.

The Contractor shall be responsible for providing a proposed scheduling, phasing and traffic control plan. The Village will review these plans and provide the contractor with any necessary modifications in writing. The Contractor will then be responsible for incorporating these changes into the proposed scheduling, phasing and traffic control plan.

At the preconstruction meeting, the Contractor shall furnish the name and telephone number where he may be reached during non-working hours of the individual in his direct employ that is to be responsible for the installation and maintenance of the traffic control of this project. If the actual installation and maintenance are to be accomplished by a subcontractor, consent shall be requested of the Engineer at the time of the preconstruction meeting in accordance with Article 108.01 of the Standard Specifications. This shall not relieve the Contractor of the requirements to have a responsible individual in his direct employ supervise this work.

This work shall be measured for payment in LUMP SUM.

Traffic Control and Protection will be paid for at the contract unit price per LUMP SUM for TRAFFIC CONTROL AND PROTECTION, SPECIAL.

PERIMETER EROSION BARRIER

This work shall be performed in accordance with applicable portions of Section 280 of the Standard Specifications, and as directed by the Engineer. The perimeter erosion barrier shall be inspected regularly and repaired if any deficiencies are noted. This work shall be performed within limits shown on the plans.

This work shall be measured for payment in FOOT.

This work shall be paid for at the contract unit price per FOOT for PERIMETER EROSION BARRIER which price shall include all of items, materials, labor and equipment listed in Section 280 of the Standard Specifications.

INLET AND PIPE PROTECTION

This work shall be performed in accordance with applicable portions of Section 280 of the Standard Specifications, and as directed by the Engineer.

The contractor shall provide all necessary equipment, machinery and labor to install the filter baskets prior to disturbing any soil and then removal and disposal upon final stabilization. Geotextile fabric under the inlet grate is not an acceptable form or inlet protection.

This work shall be measured for payment in EACH.

This work shall be paid for at the contract unit price per EACH for INLET AND PIPE PROTECTION which price shall include all of items listed in the Standard Specifications.

TEMPORARY DITCH CHECKS

This work shall be performed in accordance with applicable portions of Section 280.04 of the Standard Specifications, and as directed by the Engineer. This work shall be performed in the locations shown on the plans and according to details shown on the plans.

The ditch checks shall be made of rolled excelsior or a commercial product similar to Siltworm erosion control products. The ditch checks shall be staked using wooden stakes at a maximum four (4)' spacing.

This work shall be measured for payment in FOOT.

This work shall be paid for at the contract unit price per FOOT for TEMPORARY DITCH CHECK which price shall include all of items listed in the Standard Specifications.

STABILIZED CONSTRUCTION ENTRANCE

This work shall consist of the construction of a temporary stabilized construction entrance in the location shown on the plans. The entrance shall be constructed of stone, timbers, another non-erodible material as to minimize the amount of debris and sediment tracked from the work area. The material used in the construction entrance must be approved by the Engineer prior to construction of the entrance. The construction entrance is not shown on the plans. The location shall be coordinated with the contractor and the Engineer prior to installation. The location will depend upon the contractor's proposed access point.

The materials shall be removed and replaced when half full of sediment to ensure continuous functionality.

This work shall be measured for payment in SQUARE YARDS.

This work shall be paid for at the contract unit price per SQUARE YARD for STABILIZED CONSTRUCTION ENTRANCE which price shall include all materials, labor and machinery necessary to construct, maintain, remove and dispose of the temporary stabilized construction entrance.

CLEARING AND GRUBBING

This work shall include all labor, materials, and equipment required to remove brush, saplings and debris, as required to access the work area and complete the project. The intent is to clear all brush from the working area. Brush and saplings shall be removed to the ground, leaving the root system intact.

This work will also include the removal and disposal of mulch or wood chips left on-site following tree removal or tree pruning operations.

All materials and debris removed shall be properly disposed of by the Contractor off the project site at no additional cost to the contract.

This work shall be measured for payment in SQUARE YARDS.

This work shall be paid for at the contract unit price per SQUARE YARD for CLEARING AND GRUBBING which price shall include all of the above.

TREE REMOVAL (6 TO 15 UNITS DIAMETER)

This work shall be performed in accordance with applicable portions of Section 201 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within limits shown on the plans.

Due to permitting restraints, all trees within this pay item must be removed outside of June 1 – July 31.

This work shall be measured for payment in UNITS. A Unit is defined as one inch of diameter measured at chest height.

This work shall be paid for at the contract unit price per UNIT (inches of diameter) for TREE REMOVAL (6 to 15 UNITS DIAMETER). which price shall include all of items listed in the Standard Specifications. Trees and brush under 6 units (inches) in diameter will be paid for under the clearing and grubbing pay item.

TREE REMOVAL (OVER 15 UNITS DIAMETER)

This work shall be performed in accordance with applicable portions of Section 201 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within limits shown on the plans.

Due to permitting restraints, all trees within this pay item must be removed outside of June 1 – July 31.

This work shall be measured for payment in UNITS. A Unit is defined as one inch of diameter measured at chest height.

This work shall be paid for at the contract unit price per UNIT (inches of diameter) for TREE REMOVAL (OVER 15 UNITS DIAMETER). which price shall include all of items listed in the Standard Specifications.

REMOVE AND REINSTATE LANDSCAPE ITEMS

This work shall be performed in accordance with applicable portions of Section 201 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within limits impacted or shown on the plans.

Locations within the project limits contain landscape items including shrubs, ornamental landscape beds, wood timbers, stone landscape edges, brick landscape edges and other

landscape items. These items shall be protected and maintained to the maximum extent practicable during construction. This pay item shall be used to pay for the removal and reinstatement of all landscape items in locations where impacts to these landscape items are unavoidable.

This work shall be measured for payment in SQUARE YARDS. The limits of landscape items to be removed must be approved by the Engineer, measured and photographed prior to removal. The reinstallation of all impacted landscape items shall be per the direction of the Engineer. No additional compensation will be allowed for variation in type of landscape items being replaced.

This work shall be paid for at the contract unit price per SQUARE YARDS for REMOVE AND REINSTATE LANDSCAPE ITEMS. which price shall include all labor, machinery, hauling, disposal and coordination to complete the work listed above.

REMOVE AND REINSTATE FENCE

This work includes the removal and resetting of existing ornamental fencing that conflicts with the proposed improvements, including posts and post foundations required to complete the work.

The fencing will be re-established at their permanent location as shown on the plans or as directed by the Engineer as soon as the construction operations permit. Additional compensation will NOT be allowed for varying types or heights comprising of the existing fencing. It will be the Contractor's responsibility to determine the type of materials required to complete the relocation operations.

Any fencing damaged by the Contractor beyond the limits marked by the Engineer shall be replaced as incidental.

This work will be paid for at the contract unit price per FOOT for REMOVE AND REINSTATE FENCE, which price shall be payment in full for all of the work as specified above.

EXPLORATION TRENCH

This work shall be in accordance with Section 213 of the Standard Specifications insofar as applicable and the following provisions.

This item shall consist of excavating a trench at locations as directed by the Engineer for the purpose of locating existing sewer lines, water mains, and other utilities within or adjacent to the proposed project limits.

The trench shall be deep enough to expose the sewer lines, water mains, or other utilities. The width of the trench shall be sufficient to allow proper investigation to determine if the existing facilities need to be adjusted. The trench width and location shall be determined by the Engineer and Contractor.

The Contractor shall familiarize himself with the locations of all underground utilities as outlined in Article 105.07 of the Standard Specifications and shall save such facilities from damage.

The exploration trench shall be backfilled with trench backfill meeting the requirements of the Standard Specifications, the cost of which shall be included in the item EXPLORATION TRENCH.

Work shall also include replacement of any pavement, driveway, or sidewalk with an acceptable temporary material as directed by the Engineer.

An estimated length of EXPLORATION TRENCH has been shown in the Summary of Quantities to establish a unit price, and payment shall be based on actual length of trench explored without change in unit price because of adjustment in plan quantities. This work shall be measured in accordance with Article 213.03.

This work shall be measured for payment in FOOT.

This work shall be paid for at the contract unit price per FOOT for EXPLORATION TRENCH. No additional compensation will be allowed for any delays, inconvenience, or damage sustained by the Contractor in performing the work.

REMOVING MANHOLES

This work shall be performed in accordance with applicable portions of Section 605 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within locations shown on the plans. The drainage structure identified for removal shall be removed in its entirety. The frame and grate of the existing structure shall remain the property of the Village of Homer Glen and shall be delivered to the Homer Township Highway Department at no additional cost.

This work shall be measured for payment in EACH.

This work shall be paid for at the contract unit price per EACH for REMOVING MANHOLES. which price shall include all of items listed in the Standard Specifications including the removal and disposal of the structure and backfilling the location to match existing grade.

REMOVING INLETS

This work shall be performed in accordance with applicable portions of Section 605 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within locations shown on the plans. The drainage structure identified for removal shall be removed in its entirety. The frame and grate of the existing structure shall remain the property of the Village of Homer Glen and shall be delivered to the Homer Township Highway Department at no additional cost.

This work shall be measured for payment in EACH.

This work shall be paid for at the contract unit price per EACH for REMOVING INLETS. which price shall include all of items listed in the Standard Specifications including the removal and disposal of the structure and backfilling the location to match existing grade.

REMOVING CATCH BASINS

This work shall be performed in accordance with applicable portions of Section 605 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within locations shown on the plans. The drainage structure identified for removal shall be removed in its entirety. The frame and grate of the existing structure shall remain the property of the Village of Homer Glen and shall be delivered to the Homer Township Highway Department at no additional cost.

This work shall be measured for payment in EACH.

This work shall be paid for at the contract unit price per EACH for CATCH BASINS. which price shall include all of items listed in the Standard Specifications including the removal and disposal of the structure and backfilling the location to match existing grade.

STORM SEWER REMOVAL, 12" PVC

This work shall be performed in accordance with applicable portions of Section 551 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within locations shown on the plans. Storm sewer removal will not be paid for separately when the existing pipe is in the same trench as the proposed pipe. This pay item shall be used when a pipe is being removed in a separate alignment than the proposed pipe.

Trench backfill required to fill areas of storm sewer removal where there is no replacement will be included in the cost of removal.

This work shall be measured for payment in FOOT.

This work shall be paid for at the contract unit price per FOOT for STORM SEWER REMOVAL. 12" PVC. which price shall include all of items listed in the Standard Specifications including the removal and disposal of the pipe and backfilling the location to match existing grade.

STORM SEWER REMOVAL, 15" PVC

This work shall be performed in accordance with applicable portions of Section 551 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within locations shown on the plans. Storm sewer removal will not be paid for separately when the existing pipe is in the same trench as the proposed pipe. This pay item shall be used when a pipe is being removed in a separate alignment than the proposed pipe.

Trench backfill required to fill areas of storm sewer removal where there is no replacement will be included in the cost of removal.

This work shall be measured for payment in FOOT.

This work shall be paid for at the contract unit price per FOOT for STORM SEWER REMOVAL. 15" PVC. which price shall include all of items listed in the Standard Specifications including the removal and disposal of the pipe and backfilling the location to match existing grade.

STORM SEWER REMOVAL, 10" PVC

This work shall be performed in accordance with applicable portions of Section 551 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within locations shown on the plans. Storm sewer removal will not be paid for separately when the existing pipe is in the same trench as the proposed pipe. This pay item shall be used when a pipe is being removed in a separate alignment than the proposed pipe.

Trench backfill required to fill areas of storm sewer removal where there is no replacement will be included in the cost of removal.

This work shall be measured for payment in FOOT.

This work shall be paid for at the contract unit price per FOOT for STORM SEWER REMOVAL. 10" PVC. which price shall include all of items listed in the Standard Specifications including the removal and disposal of the pipe and backfilling the location to match existing grade.

STORM SEWER REMOVAL, 15" RCP

This work shall be performed in accordance with applicable portions of Section 551 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within locations shown on the plans. Storm sewer removal will not be paid for separately when the existing pipe is in the same trench as the proposed pipe. This pay item shall be used when a pipe is being removed in a separate alignment than the proposed pipe.

Trench backfill required to fill areas of storm sewer removal where there is no replacement will be included in the cost of removal.

This work shall be measured for payment in FOOT.

This work shall be paid for at the contract unit price per FOOT for STORM SEWER REMOVAL. 15" RCP. which price shall include all of items listed in the Standard Specifications including the removal and disposal of the pipe and backfilling the location to match existing grade.

PORTLAND CEMENT CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT - 6" PCC

This work shall consist of the removal of existing concrete driveway aprons and the construction of PCC driveway pavement on a prepared sub-grade in accordance with applicable articles of Section 423 and 440 of the Standard Specifications and the concrete shall meet the requirements of Article 1020.04 for Class PV concrete.

This work shall be done at locations of storm sewer removal and replacement and storm sewer improvements, as shown on the plans, and at locations where the ENGINEER determines it will be necessary to provide a smooth transition in the driveway pavement. Additional compensation will not be allowed for varying materials types or thicknesses comprising of the existing driveway approach.

Reinforcing bars may be embedded in old concrete driveways. Sawing, removal, and disposal of reinforcing bars will not be paid for separately but shall be included in the cost of the item removed.

Additional excavation noted by the Engineer in the field to provide a suitable granular sub-base will be performed by the Contractor at no expense to the Contract.

The Contractor shall form a perpendicular straight joint by full depth machine sawing at the end of the portion to be removed to prevent surface spalling. These areas must be marked and measured for payment by the Engineer prior to removal. The Contractor at his/her expense shall repair any driveway pavement damaged by the Contractor during the driveway pavement removal operations.

Portland Cement Concrete Driveway Pavement shall be six inches (6") in thickness. Materials for the four inches (4") of aggregate base course under the new driveway where unsuitable materials are found, and as directed by the Engineer shall be as specified herein for Aggregate Base Course, Type B, CA-6, crushed stone or crushed gravel.

Where a valve box or domestic water service valve (b-box) exists in the limits of new driveway pavement, the Contractor shall surround the box with plastic pipe of a length sufficient to extend the full depth of proposed pavement. Expansion joint material around b-boxes will be allowed only with prior approval by the Engineer.

At points where the proposed driveway pavement occupies a sidewalk crossing, 3/4" preformed expansion joint filler shall be placed between the concrete driveway and the sidewalk longitudinal joint on the edge furthest from the street. The expansion joint filler shall extend the entire depth and width of the driveway. Preformed expansion joint filler of 1/2" thickness shall be placed between the new concrete and all structures which extend through the driveway, including, but not limited to, utility manholes.

Alignment, slope, and grades of the formwork will be verified by the Engineer upon a minimum of 24 hour notice by the Contractor before pouring concrete. No concrete shall be placed without prior approval of the formwork by the Engineer.

After the water sheen has disappeared, the surface shall be given a broom finish. The broom shall be drawn across the driveway at right angles to the edges of the driveway, with adjacent strokes slightly overlapping, producing a uniform, slightly roughened surface with parallel broom marks.

Any necessary preparation of the sub-grade including excavation and disposal of materials shall be considered included in this work. **The CONTRACTOR shall use High Early Strength Concrete in order to limit driveway closure to 48 hours.**

This work shall be measured for payment in SQUARE YARD.

This work will be paid for at the contract unit price per SQUARE YARD for PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT REMOVAL AND REPLACEMENT, of the thickness specified, measured in place, which price shall include saw cutting, removal and disposal of the existing driveway, excavation, four inches (4") of Aggregate Base Course, Type

B, CA-6, crushed stone or crushed gravel, and for the use of High Early Strength Concrete, and all incidental work.

No stamps advertising the Contractor, construction companies, or other private concerns shall be placed in the concrete.

REMOVING FLARED END SECTIONS

This work shall consist of the removal of existing flared end sections of the size noted on the plans.

This work will be measured for payment in units of EACH per flared end section removed.

This item shall be at the contract unit price, per each, for REMOVING EXISTING FLARED END SECTIONS shall include all work, equipment, labor and materials to complete the item.

TREE TRUNK PROTECTION

This work shall be performed in accordance with applicable portions of Section 201 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within locations shown on the plans.

This work shall be measured for payment in EACH.

This work shall be paid for at the contract unit price per EACH for TREE TRUNK PROTECTION. which price shall include all of items listed in the Standard Specifications. This item shall not be paid for until the tree trunk protection has been removed.

AGGREGATE SHOULDERS TYPE B, 4"

This work shall be performed in accordance with applicable portions of Section 481 of the Standard Specifications, and as directed by the Engineer. This work shall be performed adjacent to Class D pavement patches along Crème Road, Stonehaven Lane and Helen Lane. Aggregate shoulders shall be a minimum of 4" thick.

This work shall be measured for payment in SQUARE YARDS.

This work shall be paid for at the contract unit price per SQUARE YARDS for AGGREGATE SHOULDERS TYPE B, 4". which price shall include all of items listed in the Standard Specifications.

PAVEMENT PATCHING - CLASS D PATCHES, TYPE 2, FULL DEPTH 7"

This work shall be performed in accordance with applicable portions of Section 442 of the Standard Specifications, and as directed by the Engineer. This work shall be performed when patching Crème Road.

This work shall be measured for payment in SQUARE YARDS.

This work shall be paid for at the contract unit price per SQUARE YARDS for PACEMENT PATCHING – CLASS D PATCHES, TYPE 2, FULL DEPTH 7" which price shall include all of items listed in the Standard Specifications.

PAVEMENT PATCHING - CLASS D PATCHES, TYPE 2, FULL DEPTH 4"

This work shall be performed in accordance with applicable portions of Section 442 of the Standard Specifications, and as directed by the Engineer. This work shall be performed when patching residential roadways including Stonehaven Lane and Helen Lane.

This work shall be measured for payment in SQUARE YARDS.

This work shall be paid for at the contract unit price per SQUARE YARDS for PACEMENT PATCHING – CLASS D PATCHES, TYPE 2, FULL DEPTH 4" which price shall include all of items listed in the Standard Specifications.

TRENCH BACKFILL

This work shall be performed in accordance with applicable portions of Section 208 of the Standard Specifications, and as directed by the Engineer. This work shall be performed when an excavation takes place within two ft (2') of any paved surface.

This work shall be measured for payment in CUBIC YARDS.

This work shall be paid for at the contract unit price per CUBIC YARDS for TRENCH BACKFILL. which price shall include all of items listed in the Standard Specifications.

PROPOSED CONNECTION TO EXISTING MANHOLES

This work shall be performed in accordance with applicable portions of Section 602 of the Standard Specifications, and as directed by the Engineer.

This item shall consist of core-drilling existing structures and the installation of the proposed storm sewer pipe to existing drainage structures. This item shall be used where proposed sewer is to be installed and connected to an existing structure. All pipe connections to existing structures shall be made by core-drilling the wall of the existing structure and installing the storm sewer. The existing structure shall be core-drilled with a mechanical powered rotary core drill. The hole shall be watertight with the connector as directed by the Engineer. This item shall be in accordance with the Standard Specifications.

Manhole penetrations that remain as a result of a storm sewer connection being removed shall be sealed shut with concrete masonry at a thickness equivalent to the existing manhole wall thickness.

The connection of proposed storm sewer to existing storm structure will be measured as one each, independent of the size of proposed pipe and existing structure diameter. If a manhole has both a storm sewer being removed and a new pipe penetration is will count as one (1) structure being adjusted.

This work will be measured for payment in place in units of EACH per existing structure being adjusted with a new connection or abandoning an existing connection.

This item shall be at the contract unit price EACH, for PROPOSED CONNECTION TO EXISTING MANHOLES and shall include all work, equipment, labor and materials to complete the item.

STORM SEWERS, CLASS A, TYPE 1, 12"

This work shall be performed in accordance with applicable portions of Section 550 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within limits shown on the plans. All storm sewers shall be reinforced concrete pipe.

This work shall be measured for payment in FOOT.

This work shall be paid for at the contract unit price per FOOT for STORM SEWERS, CLASS A, TYPE 1, 12" which price shall include all of items listed in the Standard Specifications.

STORM SEWERS, CLASS A, TYPE 2, 12"

This work shall be performed in accordance with applicable portions of Section 550 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within limits shown on the plans. All storm sewers shall be reinforced concrete pipe.

This work shall be measured for payment in FOOT.

This work shall be paid for at the contract unit price per FOOT for STORM SEWERS, CLASS A, TYPE 2, 12" which price shall include all of items listed in the Standard Specifications.

STORM SEWERS, CLASS A, TYPE 1, 18"

This work shall be performed in accordance with applicable portions of Section 550 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within limits shown on the plans. All storm sewers shall be reinforced concrete pipe.

This work shall be measured for payment in FOOT.

This work shall be paid for at the contract unit price per FOOT for STORM SEWERS, CLASS A, TYPE 1, 18" which price shall include all of items listed in the Standard Specifications.

STORM SEWERS, CLASS A, TYPE 1, 24"

This work shall be performed in accordance with applicable portions of Section 550 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within limits shown on the plans. All storm sewers shall be reinforced concrete pipe.

This work shall be measured for payment in FOOT.

This work shall be paid for at the contract unit price per FOOT for STORM SEWERS, CLASS A, TYPE 1, 24" which price shall include all of items listed in the Standard Specifications.

STORM SEWERS, CLASS A, TYPE 2, 36"

This work shall be performed in accordance with applicable portions of Section 550 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within limits shown on the plans. All storm sewers shall be reinforced concrete pipe.

This work shall be measured for payment in FOOT.

This work shall be paid for at the contract unit price per FOOT for STORM SEWERS, CLASS A, TYPE 2, 36" which price shall include all of items listed in the Standard Specifications.

PIPE UNDERDRAINS, TYPE 1, 4"

This work shall be performed in accordance with applicable portions of Section 601 of the Standard Specifications, and as directed by the Engineer. This work shall be performed within limits shown on the plans.

This work shall be measured for payment in FOOT.

This work shall be paid for at the contract unit price per FOOT for PIPE UNDERDRAINS, TYPE 1, 4" which price shall include all of items listed in the Standard Specifications.

CATCH BASINS, TYPE A, 4' DIA. TYPE 8 GRATE

This work shall be performed in accordance with Section 602 of the Standard Specifications for Road and Bridge Construction (latest edition). This work consists of the installation of catch basins of the type, grate and depth shown on the plans.

The Type 8 Grates shall be used and shall be Neenah R-4340-B or approved equal.

This work shall be measured for payment in EACH.

This work will be paid for at the contract unit price for EACH for CATCH BASINS, TYPE A, 4' DIA. TYPE 8 GRATE, which price shall include all material and work as specified above.

CATCH BASINS, TYPE C, 2' DIA. TYPE 8 GRATE

This work shall be performed in accordance with Section 602 of the Standard Specifications for Road and Bridge Construction (latest edition). This work consists of the installation of catch basins of the type, grate and depth shown on the plans.

The Type 8 Grates shall be used and shall be Neenah R-4340-B or approved equal.

This work shall be measured for payment in EACH.

This work will be paid for at the contract unit price for EACH for CATCH BASINS, TYPE C, 2' DIA. TYPE 8 GRATE, which price shall include all material and work as specified above.

MANHOLES, TYPE A, 4' DIA. TYPE 1 FRAME & GRATE CLOSED LID

This work shall be performed in accordance with Section 602 of the Standard Specifications for Road and Bridge Construction (latest edition). This work consists of the installation of manholes of the type, grate and diameter shown on the plans.

The Type 1 Frame & Grates Closed Lid shall be used and shall be Neenah R-1713 or approved equal.

This work shall be measured for payment in EACH.

This work will be paid for at the contract unit price for EACH for MANHOLES, TYPE A, 4' DIA. TYPE 1 FRAME & GRATE CLOSED LID, which price shall include all material and work as specified above.

MANHOLES, TYPE A, 6' DIA. TYPE 1 FRAME & GRATE CLOSED LID

This work shall be performed in accordance with Section 602 of the Standard Specifications for Road and Bridge Construction (latest edition). This work consists of the installation of manholes of the type, grate and diameter shown on the plans.

The Type 1 Frame & Grates Closed Lid shall be used and shall be Neenah R-1713 or approved equal.

This work shall be measured for payment in EACH.

This work will be paid for at the contract unit price for EACH for MANHOLES, TYPE A, 6' DIA. TYPE 1 FRAME & GRATE CLOSED LID, which price shall include all material and work as specified above.

MANHOLES, TYPE A, 6' DIA. TYPE 1 FRAME & GRATE OPEN LID

This work shall be performed in accordance with Section 602 of the Standard Specifications for Road and Bridge Construction (latest edition). This work consists of the installation of manholes of the type, grate and diameter shown on the plans.

The Type 1 Frame & Grates Open Lid shall be used and shall be Neenah R-2504 or approved equal.

This work shall be measured for payment in EACH.

This work will be paid for at the contract unit price for EACH for MANHOLES, TYPE A, 6' DIA. TYPE 1 FRAME & GRATE OPEN LID, which price shall include all material and work as specified above.

MANHOLES, TYPE A, 7' DIA. TYPE 1 FRAME & GRATE OPEN LID

This work shall be performed in accordance with Section 602 of the Standard Specifications for Road and Bridge Construction (latest edition). This work consists of the installation of manholes of the type, grate and diameter shown on the plans.

The Type 1 Frame & Grates Open Lid shall be used and shall be Neenah R-2504 or approved equal.

This work shall be measured for payment in EACH.

This work will be paid for at the contract unit price for EACH for MANHOLES, TYPE A, 7' DIA. TYPE 1 FRAME & GRATE OPEN LID, which price shall include all work as specified above.

MANHOLES, TYPE A, 7' DIA. TYPE 8 GRATE

This work shall be performed in accordance with Section 602 of the Standard Specifications for Road and Bridge Construction (latest edition). This work consists of the installation of manholes of the type, grate and diameter shown on the plans.

The Type 8 Grate shall be used and shall be Neenah R-4340-A or approved equal.

This work shall be measured for payment in EACH.

This work will be paid for at the contract unit price for EACH for MANHOLES, TYPE A, 7' DIA. TYPE 8 GRATE, which price shall include all work as specified above.

MANHOLES, TYPE A, 8' DIA. DUAL TYPE 1 FRAME & GRATE CLOSED LID, RESTRICTOR PLATE

This work consists of the installation of Manhole of the size, type, and depth shown on the plans with integrated restrictor plate as shown on details in plan.

This work shall be performed in accordance with Section 602 of the Standard Specifications for Road and Bridge Construction (latest edition). Two Type 1 frames and closed lids (Neenah R-1713 or approved equivalent) shall be used.

This work will be measured for payment in units of EACH per manhole with integrated restrictor plate installed.

This work will be paid for at the contract unit price for EACH for MANHOLES, TYPE A, 8'-DIAMETER, DUAL TYPE 1 FRAME & GRATE CLOSED LID, RESTRICTOR PLATE, of the diameter specified and shall include the cost of Type 1 frames and lids, and restrictor plates.

PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12 INCH

This work shall be performed in accordance with Section 542 of the Standard Specifications for Road and Bridge Construction (latest edition). This work consists of the installation of precast reinforced concrete flared end sections of the diameter shown on the plans. Each precast reinforced concrete flared end section shall be equipped with gratings in accordance with Section 542.07.b.2 of the Standard Specifications.

This work shall be measured for payment in EACH.

This work will be paid for at the contract unit price for EACH for PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12 INCH, which price shall include all materials including structural steel gratings and all work as specified above.

PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 24 INCH

This work shall be performed in accordance with Section 542 of the Standard Specifications for Road and Bridge Construction (latest edition). This work consists of the installation of precast reinforced concrete flared end sections of the diameter shown on the plans. Each precast reinforced concrete flared end section shall be equipped with gratings in accordance with Section 542.07.b.2 of the Standard Specifications.

This work shall be measured for payment in EACH.

This work will be paid for at the contract unit price for EACH for PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 24 INCH, which price shall include all materials including structural steel gratings and all work as specified above.

PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 36 INCH

This work shall be performed in accordance with Section 542 of the Standard Specifications for Road and Bridge Construction (latest edition). This work consists of the installation of precast reinforced concrete flared end sections of the diameter shown on the plans. Each precast reinforced concrete flared end section shall be equipped with gratings in accordance with Section 542.07.b.2 of the Standard Specifications.

This work shall be measured for payment in EACH.

This work will be paid for at the contract unit price for EACH for PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 36 INCH, which price shall include all materials including structural steel gratings and all work as specified above.

GRADING AND SHAPING DITCHES

This work shall be done in accordance with Sections 201 and 214 of the Standard Specifications and consist of grading ditches to provide proper slope and positive drainage. This work shall require grading to meet the lines and grades of the Engineer at the time of construction. The grading of ditches shall be done to the satisfaction of the Engineer and the disturbed areas shall be prepared for restoration. Typical ditch and swale sections shall be a 3:1 fore slope, 2' minimum flat bottom and 4:1 back slope.

This work shall be measured for payment in FOOT for GRADING AND SHAPING DITCHS.

This work shall be paid for at the contract unit price per FOOT for GRADING AND SHAPING DITCHES, which price shall include removal and disposal of excess material. The restoration shall be paid for separately at the contract unit price per SQUARE YARD for SEEDING, CLASS 1A (SPECIAL).

ADJUSTING WATER SERVICE LINES

This work shall be performed in accordance with Section 563 of the Standard Specifications and consists of the installation of water service lines of the diameter to be determined in the field. The proposed storm sewer may impact some existing residential water service lines. If these service lines are impacted they shall be reinstated or repaired using this pay item. No information about the location, depth, material or diameter of the water service lines are available at this time.

This work shall be measured for payment in FOOT.

This work will be paid for at the contract unit price for FOOT for ADJUSTING WATER SERVICE LINES, which price shall include all work as specified above.

ADJUSTING SANITARY SEWERS (8" DIAMETER OR LESS)

This work shall be performed in accordance with Section 563 of the Standard Specifications for Road and Bridge Construction (latest edition). This work consists of the installation and/or repair of sanitary service lines of the diameter shown on the plans. The proposed storm sewer may impact some existing residential sanitary sewer service lines. If these service lines are impacted they shall be reinstated or repaired using this pay item. No information about the location, depth, material or diameter of the water service lines are available at this time.

This work shall be measured for payment in FOOT.

This work will be paid for at the contract unit price for FOOT for ADJUSTING SANITARY SEWERS (8" DIAMETER OR LESS), which price shall include all work as specified above.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS

This work shall be performed in accordance with Section 202, 502 of the Standard Specifications and consists of the removal and disposal of unsuitable material. Material must be verified as unsuitable by the Engineer prior to requesting reimbursement under this pay item. Unsuitable material shall be considered soils that are unfit to support the storm sewer, drainage structures, roadways or driveways.

This work shall be measured for payment in CUBIC YARD.

This work will be paid for at the contract unit price for CUBIC YARD for REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL which price shall include all work as specified above.

TOPSOIL EXCAVATION AND PLACEMENT

This work shall be performed in accordance with Section 211 of the Standard Specifications and consists of topsoil excavation and placement. This pay item is intended for the strip of existing topsoil and respread of said topsoil in disturbed areas. Topsoil must be a minimum of 4" thick in all restored areas.

This work shall be measured for payment in CUBIC YARD.

This work will be paid for at the contract unit price for CUBIC YARDS for TOPSOIL EXCAVATION AND PLACEMENT, which price shall include all work as specified above.

FURNISHED EXCAVATION

This work shall be performed in accordance with Section 204 of the Standard Specifications and consists of the furnishing of suitable materials to fill locations identified in the plans. This pay item will be used on Project 3A for the import of fill material. The material shall be used to raise settled areas to the desired grades as depicted on the plans. The existing topsoil in the work area must be stripped prior to placement of furnished excavation. The topsoil will be respread to over the furnished excavation and paid for under the Topsoil Excavation and Placement pay item.

This work shall be measured for payment in CUBIC YARDS.

This work will be paid for at the contract unit price for CUBIC YARDS for FURNISHED EXCAVATION, which price shall include all work as specified above.

ARTICULATED BLOCK REVETMENT MAT (SPECIAL)

This work shall be performed in accordance with applicable portions of Section 285 and Section 501 of the Standard Specifications. The existing detention pond has a concrete spillway that is currently in poor condition. The base has been eroded and the concrete slabs are separating. This work shall include removing the existing concrete spillway and installing an articulated block revetment mat in the same location. The existing concrete spillway and existing bedding material shall be removed of and disposed of in its entirety. Furnished excavation shall be used to backfill the area in such a way that the surface of the proposed articulated block revetment mat shall match the shape and elevation of the existing concrete spillway.

Prior to placing the articulated block revetment mat, the sub-grade shall be compacted to 95% standard proctor. A filter fabric shall be installed over the sub-grade. Installation of filter fabric shall be incidental to construction and no additional consideration will be given. The filter fabric shall be in conformance with Section 282 of the Standard Specifications and be comprised of woven geotextile material. Non-woven geotextile filter fabric will not be acceptable.

The articulated block revetment mat shall be placed and anchored at the frequency and depth recommended by the manufacturer. After placement the mats shall be backfilled with topsoil and seeded with Class 1A seed.

This work shall be measured for payment in SQUARE YARDS.

This work shall be paid for at the contract unit price per SQUARE YARD for ARTICULATED BLOCK REVETMENT MAT (SPECIAL) which price shall include all of items, materials including but not limited to filter fabric, furnished excavation, topsoil, seed and articulated block revetment mat as well as labor and equipment listed in Section 285 of the Standard Specifications. The removal and disposal of the existing concrete spillway shall be incidental to the installation of the proposed articulated block revetment mat.

TREES

This work shall consist of the installation of new trees to locations noted in the plans and as directed by the Engineer and shall be done in accordance with Section 253 of the Standard Specifications.

The acceptable tree species shall be from this list:

- Aesculus flava, Yellow Buckeye
- Amelanchier x grandiflora, Apple Serviceberry
- Betula nigra, River Birch
- Carpinus caroliniana, American Hornbeam
- Celtis occidentalis, Common Hackberry
- Cornus Mas, Cornelian-cherry Dogwood
- Ginkgo biloba, Ginkgo (male only)
- Platanus Occidentalis, Sycamore
- Quercus bicolor, Swamp White Oak
- Quercus montana, Chestnut Oak
- Taxodium distichum, Common bald cypress
- Tilia petiolaris, Silver Linden
- Ulmus 'Morton Red Tip', Elm-Danada Charm™

The Village will pick the tree from the species provided above for each location of tree installation.

This work shall be paid for at the contract unit price per EACH for TREES, DECIDUOUS, BALLED AND BURLAPPED, 2.5" CALIPER, which price shall be payment in full for all of the work as specified above.

SEEDING, CLASS 1A (SPECIAL)

This work shall consist seeding class 1A, fertilizer nutrients, and supplemental watering in disturbed areas as shown on the plans and as directed by the Engineer.

This work shall be done in accordance with the applicable portions of Section 250 and 251 of the Standard Specifications. Fertilizer Nutrients shall be applied in accordance with Article 250.04.

The Contractor shall coordinate with the Engineer on restoration of the disturbed areas. Blending of the disturbed areas with the adjacent terrain based on this coordination is considered part of this contract and shall be paid at the contract unit price for the necessary items, which prices shall include all labor, material and equipment necessary to perform the work.

Seeding performed after November 1st and prior to April 1st shall consist of a Winter Wheat seed mixture as a temporary measure. The Contractor will be required to re-visit the project locations after April 1st to broadcast additional seed of the specified seed class to ensure adequate coverage and growth.

This work shall be measured for payment in SQUARE YARDS.

This work will be paid for at the contract unit price per SQUARE YARD for SEEDING, CLASS 1A (SPECIAL) which price shall include all labor, material, and equipment as specified above.

Payment for this item shall not be made until the seed has germinated and a growth of 2" grass strand has been established.

EROSION CONTROL BLANKET - DS75

This work shall be performed in accordance with applicable portions of Section 251 of the Standard Specifications, and as directed by the Engineer. Erosion control blanket type NAG DS75 or approved equivalent shall be used in the locations shown on the plans.

This work shall be measured for payment in SQUARE YARDS.

This work shall be paid for at the contract unit price per SQUARE YARD for EROSION CONTROL BLANKET – DS75 which price shall include all of items, materials, labor and equipment listed in Section 251 of the Standard Specifications.

STONE RIPRAP, CLASS A1

This work shall be performed in accordance with applicable portions of Section 281 of the Standard Specifications, and as directed by the Engineer. Stone Riprap Class A1 gradation shall be placed to the thickness identified in the plans and details.

The Stone Riprap Class A1 shall be used as bedding material for the larger classes of Stone Riprap as depicted in the storm sewer end section details. Installation of filter fabric shall be incidental to construction and no additional consideration will be given. The filter fabric shall be in conformance with Section 282 of the Standard Specifications and be comprised of woven geotextile material. Non-woven geotextile filter fabric will not be acceptable.

This work shall be measured for payment in SQUARE YARDS.

This work shall be paid for at the contract unit price per SQUARE YARD for STONE RIPRAP, CLASS A1 which price shall include all of items listed in the Standard Specifications. Filter fabric and the installation of filter fabric shall be incidental. Over excavation for the installation of stone rip rap shall be considered incidental.

STONE RIPRAP, CLASS A4

This work shall be performed in accordance with applicable portions of Section 281 of the Standard Specifications, and as directed by the Engineer. Stone Riprap Class A4 gradation shall be placed to the thickness identified in the plans and details.

The Stone Riprap Class A4 shall be placed over Class A1 bedding material as depicted in the storm sewer end section details. Installation of filter fabric shall be included in the installation of the Class A1 bedding material.

This work shall be measured for payment in SQUARE YARDS.

This work shall be paid for at the contract unit price per SQUARE YARD for STONE RIPRAP, CLASS A4 which price shall include all of items listed in the Standard Specifications. Over excavation for the installation of stone rip rap shall be considered incidental.

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State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION FOR INSURANCE

Effective: February 1, 2007
Revised: August 1, 2007

All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

The Contractor shall name the following entities as additional insured under the Contractor's general liability insurance policy in accordance with Article 107.27:

Village of Homer Glen

HR Green, Inc.

The entities listed above and their officers, employees, and agents shall be indemnified and held harmless in accordance with Article 107.26.

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION FOR CONSTRUCTION AND MAINTENANCE SIGNS

Effective: January 1, 2004
Revised: June 1, 2007

All references to Sections or Articles in this specification shall be construed to mean a specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

701.14. Signs. Add the following paragraph to Article 701.14:

All warning signs shall have minimum dimensions of 1200 mm x 1200 mm (48" x 48") and have a black legend on a fluorescent orange reflectorized background, meeting, as a minimum, Type AP reflectivity requirements of Table 1091-2 in Article 1091.02.

BDE SPECIAL PROVISIONS
For the November 8, 2019 Letting

The following special provisions indicated by a "check mark" are applicable to this contract and will be included by the Project Coordination and Implementation Section of the BD&E. An * indicates a new or revised special provision for the letting.

	File Name	#		Special Provision Title	Effective	Revised
	80099	1	☐	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2014
	80274	2	☐	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2016
	80192	3	☐	Automated Flagger Assistance Device	Jan. 1, 2008	
	80173	4	☐	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
	80241	5	☐	Bridge Demolition Debris	July 1, 2009	
	5026I	6	☐	Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5048I	7	☐	Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5049I	8	☐	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5053I	9	☐	Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
	80404	10	☐	Coarse Aggregate Quality for Micro-Surfacing and Cape Seals	Jan. 1, 2019	
	80384	11	☐	Compensable Delay Costs	June 2, 2017	April 1, 2019
	80198	12	☐	Completion Date (via calendar days)	April 1, 2008	
	80199	13	☐	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
	80293	14	☐	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	July 1, 2016
	80311	15	☐	Concrete End Sections for Pipe Culverts	Jan. 1, 2013	April 1, 2016
	80277	16	☐	Concrete Mix Design – Department Provided	Jan. 1, 2012	April 1, 2016
	80261	17	☐	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
	80387	18	☐	Contrast Preformed Plastic Pavement Marking	Nov. 1, 2017	
	80029	19	☐	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	March 2, 2019
	80402	20	☐	Disposal Fees	Nov. 1, 2018	
	80378	21	☐	Dowel Bar Inserter	Jan. 1, 2017	Jan. 1, 2018
	80405	22	☐	Elastomeric Bearings	Jan. 1, 2019	
	80415	23	☐	Emulsified Asphalts	Aug. 1, 2019	
	80388	24	☑	Equipment Parking and Storage	Nov. 1, 2017	
	80229	25	☐	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
*	80417	26	☐	Geotechnical Fabric for Pipe Underdrains and French Drains	Nov. 1, 2019	
*	80420	27	☐	Geotextile Retaining Walls	Nov. 1, 2019	
	80304	28	☐	Grooving for Recessed Pavement Markings	Nov. 1, 2012	Nov. 1, 2017
*	80416	29	☐	Hot-Mix Asphalt – Binder and Surface Course	July 2, 2019	Nov. 1, 2019
*	80398	30	☐	Hot-Mix Asphalt – Longitudinal Joint Sealant	Aug. 1, 2018	Nov. 1, 2019
*	80406	31	☐	Hot-Mix Asphalt – Mixture Design Verification and Production (Modified for I-FIT Projects)	Jan. 1, 2019	Nov. 1, 2019
*	80347	32	☐	Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Nov. 1, 2014	July 2, 2019
*	80383	33	☐	Hot-Mix Asphalt – Quality Control for Performance	April 1, 2017	July 2, 2019
	80392	34	☑	Lights on Barricades	Jan. 1, 2018	
	80336	35	☐	Longitudinal Joint and Crack Patching	April 1, 2014	April 1, 2016
	80411	36	☐	Luminaires, LED	April 1, 2019	
	80393	37	☑	Manholes, Valve Vaults, and Flat Slab Tops	Jan. 1, 2018	March 1, 2019
	80400	38	☐	Mast Arm Assembly and Pole	Aug. 1, 2018	
	80045	39	☐	Material Transfer Device	June 15, 1999	Aug. 1, 2014
*	80418	40	☐	Mechanically Stabilized Earth Retaining Walls	Nov. 1, 2019	
	80394	41	☐	Metal Flared End Section for Pipe Culverts	Jan. 1, 2018	April 1, 2018
	80165	42	☐	Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
	80412	43	☐	Obstruction Warning Luminaires, LED	Aug. 1, 2019	
	80349	44	☐	Pavement Marking Blackout Tape	Nov. 1, 2014	April 1, 2016
	80371	45	☐	Pavement Marking Removal	July 1, 2016	
	80390	46	☐	Payments to Subcontractors	Nov. 2, 2017	

	80389	47	☑	Portland Cement Concrete	Nov. 1, 2017	
*	80359	48	☐	Portland Cement Concrete Bridge Deck Curing	April 1, 2015	Nov. 1, 2019
	80300	49	☐	Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	April 1, 2016
	80328	50	☐	Progress Payments	Nov. 2, 2013	
	3426I	51	☐	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
	80157	52	☐	Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
*	80306	53	☐	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	July 2, 2019
	80407	54	☐	Removal and Disposal of Regulated Substances	Jan. 1, 2019	
*	80419	55	☐	Silt Fence, Ground Stabilization and Riprap Filter Fabric	Nov. 1, 2019	
	80395	56	☐	Sloped Metal End Section for Pipe Culverts	Jan. 1, 2018	
	80340	57	☐	Speed Display Trailer	April 2, 2014	Jan. 1, 2017
	80127	58	☐	Steel Cost Adjustment	April 2, 2004	Aug. 1, 2017
	80408	59	☐	Steel Plate Beam Guardrail Manufacturing	Jan. 1, 2019	
	80413	60	☐	Structural Timber	Aug. 1, 2019	
	80397	61	☐	Subcontractor and DBE Payment Reporting	April 2, 2018	
	80391	62	☐	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
	80317	63	☐	Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	Aug. 1, 2019
	80298	64	☐	Temporary Pavement Marking	April 1, 2012	April 1, 2017
	20338	65	☐	Training Special Provisions	Oct. 15, 1975	
	80403	66	☐	Traffic Barrier Terminal, Type 1 Special	Nov. 1, 2018	
	80409	67	☑	Traffic Control Devices - Cones	Jan. 1, 2019	
	80410	68	☐	Traffic Spotters	Jan. 1, 2019	
	80318	69	☐	Traversable Pipe Grate for Concrete End Sections	Jan. 1, 2013	Jan. 1, 2018
	80288	70	☐	Warm Mix Asphalt	Jan. 1, 2012	April 1, 2016
	80302	71	☐	Weekly DBE Trucking Reports	June 2, 2012	April 2, 2015
	80414	72	☐	Wood Fence Sight Screen	Aug. 1, 2019	
	80071	73	☐	Working Days	Jan. 1, 2002	

The following special provisions are in the 2019 Supplemental Specifications and Recurring Special Provisions.

File Name	Special Provision Title	New Location(s)	Effective	Revised
80382	Adjusting Frames and Grates	Articles 602.02(s) and (t), 1043.04, and1043.05	April 1, 2017	
80366	Butt Joints	Article 406.08(c)	July 1, 2016	
80386	Calcium Aluminate Cement for Class PP-5 Concrete Patching	Article 1001.01(e)	Nov. 1, 2017	
80396	Class A and B Patching	Articles 442.06(a)(1) and (2)	Jan. 1, 2018	Nov. 1, 2018
80377	Portable Changeable Message Signs	Articles 701.20(h) and 1106.02(i)	Nov. 1, 2016	April 1, 2017
80385	Portland Cement Concrete Sidewalk	Article 424.12	Aug. 1, 2017	

The following special provisions have been deleted from use.

File Name	Special Provision Title	Effective	Revised
80246	Hot-Mix Asphalt – Density Testing of Longitudinal Joints	Jan. 1, 2010	Aug. 1, 2018
80399	Hot-Mix Asphalt – Oscillatory Roller	Aug. 1, 2018	Nov. 1, 2018
80376	Hot-Mix Asphalt – Tack Coat	Nov. 1, 2016	
80401	Portland Cement Concrete Pavement Connector for Bridge Approach Slab	Aug. 1, 2018	

The following special provisions require additional information from the designer. The additional information needs to be submitted as a separate document. The Project Coordination and Implementation section will then include the information in the applicable special provision.

- Bridge Demolition Debris
- Building Removal - Case I
- Building Removal – Case II
- Building Removal - Case III
- Building Removal-Case IV
- Completion Date
- Completion Date Plus Working Days
- DBE Participation
- Material Transfer Device
- Railroad Protective Liability Insurance
- Training Special Provisions
- Working Days

EQUIPMENT PARKING AND STORAGE (BDE)

Effective: November 1, 2017

Replace the first paragraph of Article 701.11 of the Standard Specifications with the following.

"**701.11 Equipment Parking and Storage.** During working hours, all vehicles and/or nonoperating equipment which are parked, two hours or less, shall be parked at least 8 ft (2.5 m) from the open traffic lane. For other periods of time during working and for all nonworking hours, all vehicles, materials, and equipment shall be parked or stored as follows.

(a) When the project has adequate right-of-way, vehicles, materials, and equipment shall be located a minimum of 30 ft (9 m) from the pavement.

(b) When adequate right-of-way does not exist, vehicles, materials, and equipment shall be located a minimum of 15 ft (4.5 m) from the edge of any pavement open to traffic.

(c) Behind temporary concrete barrier, vehicles, materials, and equipment shall be located a minimum of 24 in. (600 mm) behind free standing barrier or a minimum of 6 in. (150 mm) behind barrier that is either pinned or restrained according to Article 704.04. The 24 in. or 6 in. measurement shall be from the base of the non-traffic side of the barrier.

(d) Behind other man-made or natural barriers meeting the approval of the Engineer."

80388

LIGHTS ON BARRICADES (BDE)

Effective: January 1, 2018

Revise Article 701.16 of the Standard Specifications to read:

"**701.16 Lights.** Lights shall be used on devices as required in the plans, the traffic control plan, and the following table.

Circumstance	Lights Required
Daylight operations	None
First two warning signs on each approach to the work involving a nighttime lane closure and "ROUGH GROOVED SURFACE" (W8-I107) signs	Flashing mono-directional lights
Devices delineating isolated obstacles, excavations, or hazards at night (Does not apply to patching)	Flashing bi-directional lights
Devices delineating obstacles, excavations, or hazards exceeding 100 ft (30 m) in length at night (Does not apply to widening)	Steady burn bi-directional lights
Channelizing devices for nighttime lane closures on two-lane roads	None
Channelizing devices for nighttime lane closures on multi-lane roads	None
Channelizing devices for nighttime lane closures on multi-lane roads separating opposing directions of traffic	None
Channelizing devices for nighttime along lane shifts on multilane roads	Steady burn mono-directional lights
Channelizing devices for night time along lane shifts on two lane roads	Steady burn bi-directional lights
Devices in nighttime lane closure tapers on Standards 701316 and 701321	Steady burn bi-directional lights
Devices in nighttime lane closure tapers	Steady burn mono-directional lights
Devices delineating a widening trench	None
Devices delineating patches at night on roadways with an ADT less than 25,000	None
Devices delineating patches at night on roadways with an ADT of 25,000 or more	None

Batteries for the lights shall be replaced on a group basis at such times as may be specified by the Engineer."

Delete the fourth sentence of the first paragraph of Article 701.17(c)(2) of the Standard Specifications.

Revise the first paragraph of Article 603.07 of the Standard Specifications to read:

"**603.07 Protection Under Traffic.** After the casting has been adjusted and Class SI concrete has been placed, the work shall be protected by a barricade for at least 72 hours."

80392

MANHOLES, VALVE VAULTS, AND FLAT SLAB TOPS (BDE)

Effective: January 1, 2018
Revised: March 1, 2019

Description. In addition to those manufactured according to the current standards included in this contract, manholes, valve vaults, and flat slab tops manufactured prior to March 1, 2019, according to the previous Highway Standards listed below will be accepted on this contract:

Product	Previous Standards		
Precast Manhole Type A, 4' (1.22 m) Diameter	602401-05	602401-04	602401-03
Precast Manhole Type A, 5' (1.52 m) Diameter	602402-01	602402	602401-03
Precast Manhole Type A, 6' (1.83 m) Diameter	602406-09	602406-08	602406-07
Precast Manhole Type A, 7' (2.13 m) Diameter	602411-07	602411-06	602411-05
Precast Manhole Type A, 8' (2.44 m) Diameter	602416-07	602416-06	602416-05
Precast Manhole Type A, 9' (2.74 m) Diameter	602421-07	602421-06	602421-05
Precast Manhole Type A, 10' (3.05 m) Diameter	602426-01	602426	
Precast Valve Vault Type A, 4' (1.22 m) Diameter	602501-04	602501-03	602501-02
Precast Valve Vault Type A, 5' (1.52 m) Diameter	602506-01	602506	602501-02
Precast Reinforced Concrete Flat Slab Top	602601-05	602601-04	

The following revisions to the Standard Specifications shall apply to manholes, valve vaults, and flat slab tops manufactured according to the current standards included in this contract:

Revise Article 602.02(g) of the Standard Specifications to read:

"(g) Structural Steel (Note 4) 1006.04

Note 4. All components of the manhole joint splice shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable."

Add the following to Article 602.02 of the Standard Specifications:

"(s) Anchor Bolts and Rods (Note 5) 1006.09

Note 5. The threaded rods for the manhole joint splice shall be according to the requirements of ASTM F 1554, Grade 55, (Grade 380)."

Revise the second paragraph of Article 1042.10 of the Standard Specifications to read:

"Catch basin Types A, B, C, and D; Manhole Type A; Inlet Types A and B; Drainage Structures Types 1, 2, 3, 4, 5, and 6; Valve Vault Type A; and reinforced concrete flat slab top (Highway Standard 602601) shall be manufactured according to AASHTO M 199 (M 199M), except as shown on the plans. Additionally, catch basins, inlets, and drainage structures shall have a minimum concrete compressive strength of 4500 psi (31,000 kPa) at 28 days and manholes,

valve vaults, and reinforced concrete flat slab tops shall have a minimum concrete compressive strength of 5000 psi (34,500 kPa) at 28 days."

80393

PORTLAND CEMENT CONCRETE (BDE)

Effective: November 1, 2017

Revise the Air Content % of Class PP Concrete in Table 1 Classes of Concrete and Mix Design Criteria in Article 1020.04 of the Standard Specifications to read:

"TABLE 1. CLASSES OF CONCRETE AND MIX DESIGN CRITERIA

Class of Conc.	Use	Air Content %
PP	Pavement Patching Bridge Deck Patching (10)	
	PP-1	4.0 - 8.0"
	PP-2	
	PP-3	
	PP-4	
	PP-5	

Revise Note (4) at the end of Table 1 Classes of Concrete and Mix Design Criteria in Article 1020.04 of the Standard Specifications to read:

"(4) For all classes of concrete, the maximum slump may be increased to 7 in (175 mm) when a high range water-reducing admixture is used. For Class SC, the maximum slump may be increased to 8 in. (200 mm). For Class PS, the maximum slump may be increased to 8 1/2 in. (215 mm) if the high range water-reducing admixture is the polycarboxylate type."

80389

TRAFFIC CONTROL DEVICES - CONES (BDE)

Effective: January 1, 2019

Revise Article 701.15(a) of the Standard Specifications to read:

"(a) Cones. Cones are used to channelize traffic. Cones used to channelize traffic at night shall be reflectorized; however, cones shall not be used in nighttime lane closure tapers or nighttime lane shifts."

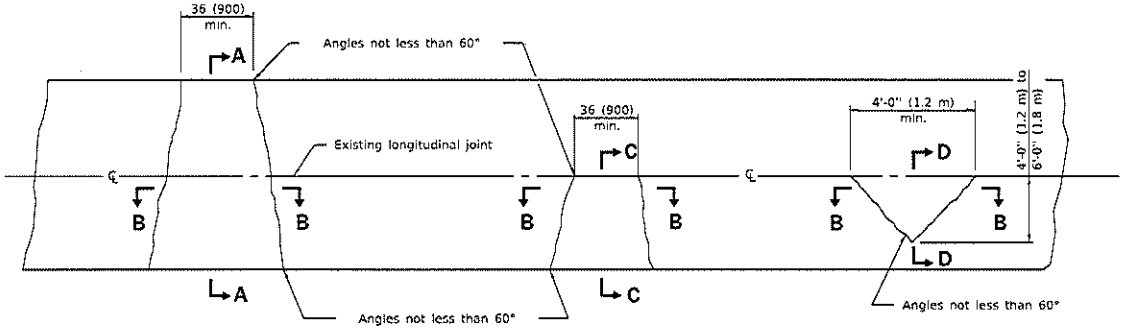
Revise Article 1106.02(b) of the Standard Specifications to read:

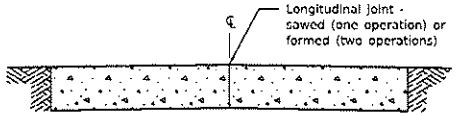
"(b) Cones. Cones shall be predominantly orange. Cones used at night that are 28 to 36 in. (700 to 900 mm) in height shall have two white circumferential stripes. If non-reflective spaces are left between the stripes, the spaces shall be no more than 2 in. (50mm) in width. Cones used at night that are taller than 36 in. (900 mm) shall have a minimum of two white and two fluorescent orange alternating, circumferential stripes with the top stripe being fluorescent orange. If non-reflective spaces are left between the stripes, the spaces shall be no more than 3 in. (75 mm) in width.

The minimum weights for the various cone heights shall be 4 lb for 18 in. (2 kg for 450 mm), 7 lb for 28 in. (3 kg for 700 mm), and 10 lb for 36 in. (5 kg for 900 mm) with a minimum of 60 percent of the total weight in the base. Cones taller than 36 in. shall be weighted per the manufacturer's specifications such that they are not moved by wind or passing traffic."

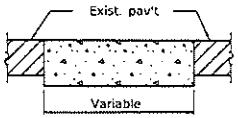
80409

CLASS C

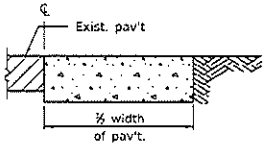




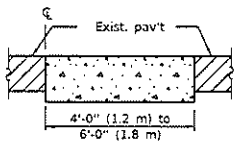
SECTION A-A



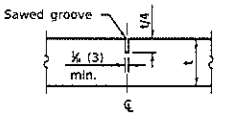
SECTION B-B



SECTION C-C



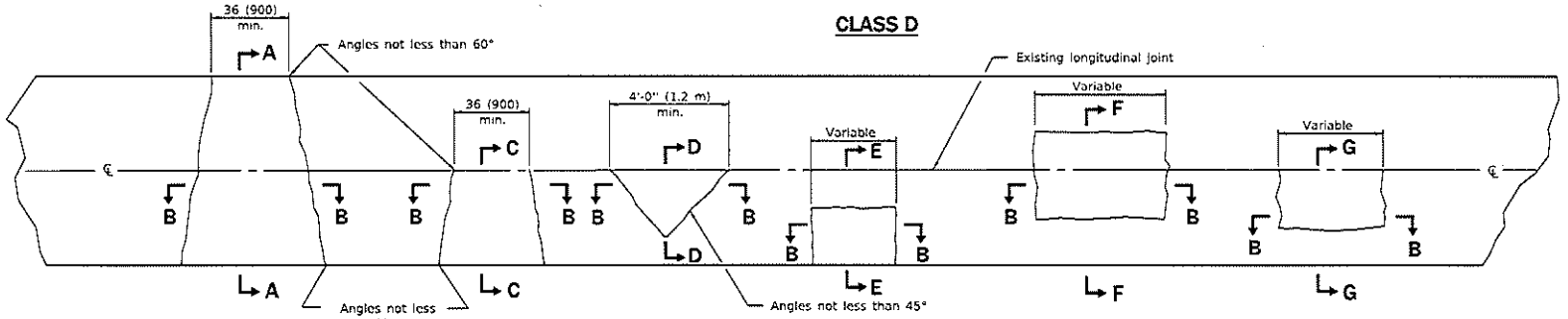
SECTION D-D

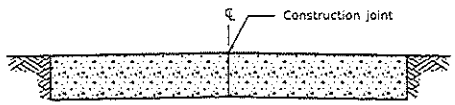


DETAIL OF SAWED CONTRACTION JOINT

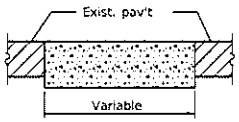
Note:
Longitudinal joints shall be as detailed on Standard 420001, except tie bars are not required for patches 20'-0" (6.0 m) or less in length.

CLASS D

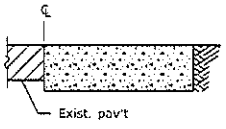




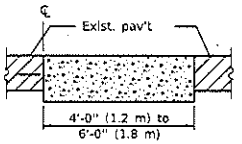
SECTION A-A
(Built in two operations)



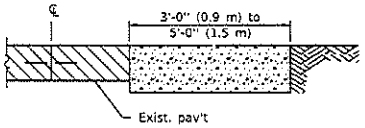
SECTION B-B



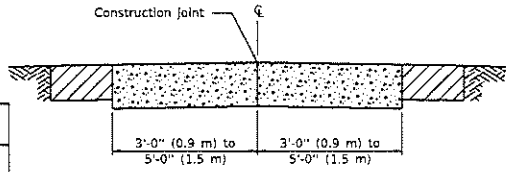
SECTION C-C



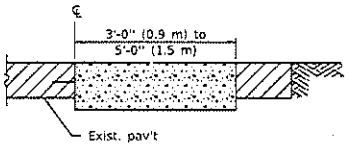
SECTION D-D



SECTION E-E



SECTION F-F
(Built in two operations)



SECTION G-G

GENERAL NOTES

Existing tie bars shall be either cut or removed. Marginal bars shall be cut.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2008
ENGINEER OF POLICY AND PROCEDURES

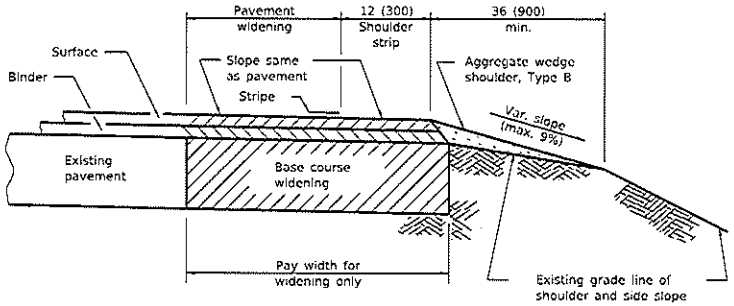
APPROVED January 1, 2008
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-08	Switched units to
	English (metric).
1-1-07	Revised Note for
	Class C patches.

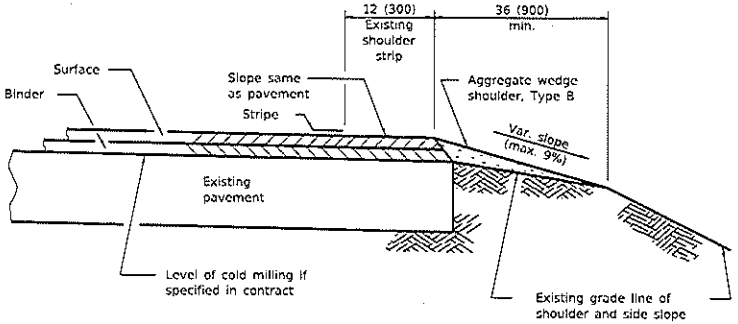
CLASS C and D PATCHES

STANDARD 442201-03



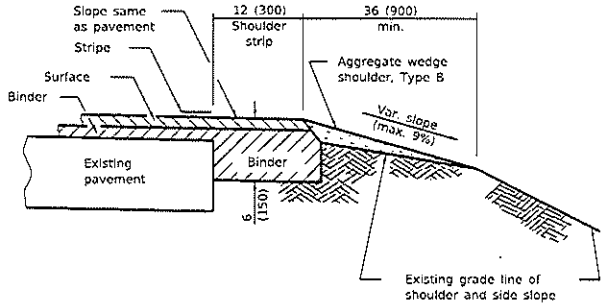
HMA SHOULDER STRIP AND AGGREGATE WEDGE WITH WIDENING

(Cross-section A)



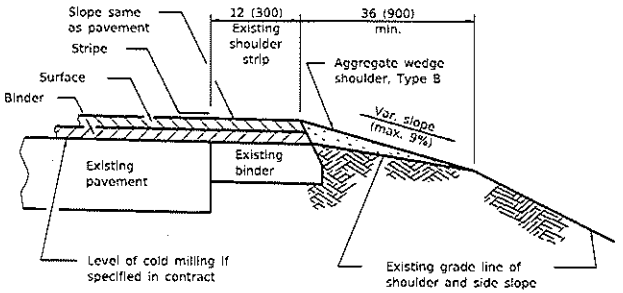
COLD MILLING AND/OR RESURFACING OF EXISTING PAVEMENT WITH SHOULDER STRIPS

(Cross-section C)



HMA SHOULDER STRIP AND AGGREGATE WEDGE WITH RESURFACING

(Cross-section B)



COLD MILLING AND/OR RESURFACING OF EXISTING PAVEMENT WITH SHOULDER STRIPS

(Cross-section D)

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2008
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2008
ENGINEER OF DESIGN AND ENVIRONMENT

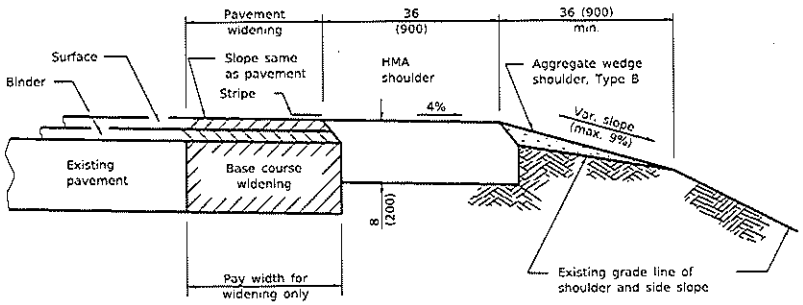
ISSUED 1-1-97

DATE	REVISIONS
1-1-08	Switched units to
	English (metric).
1-1-07	Switched to Hot-Mix
	Asphalt (HMA)
	terminology.

HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS

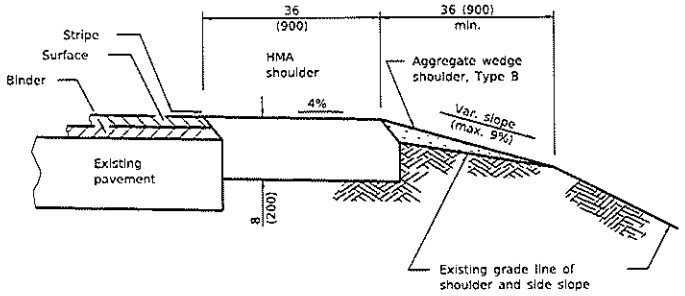
(Sheet 1 of 2)

STANDARD 482011-03



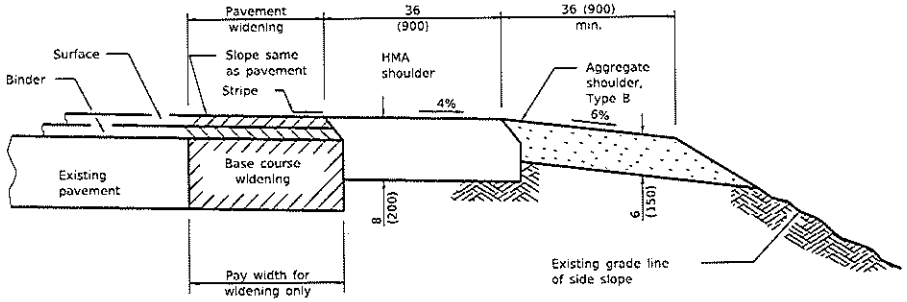
HMA SHOULDER AND AGGREGATE WEDGE WITH WIDENING

(Cross-section E)



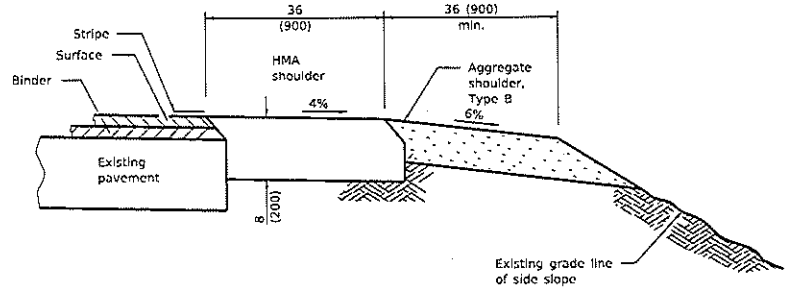
HMA SHOULDER AND AGGREGATE WEDGE WITH RESURFACING

(Cross-section G)



HMA AND AGGREGATE SHOULDERS WITH WIDENING

(Cross-section F)



HMA AND AGGREGATE SHOULDERS WITH RESURFACING

(Cross-section H)

Illinois Department of Transportation

PASSED January 1, 2008

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2008

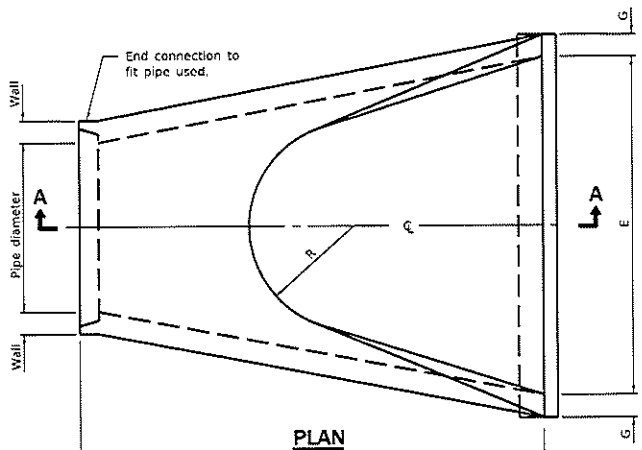
ENGINEER OF DESIGN AND ENVIRONMENT

1550E3 1-1-07

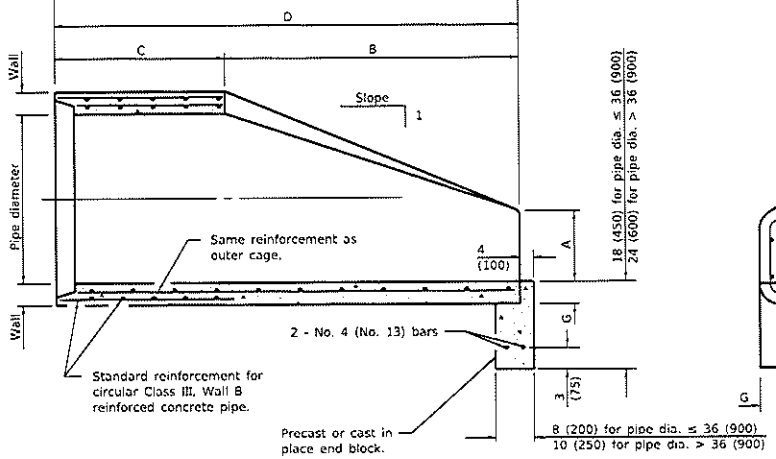
HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS

(Sheet 2 of 2)

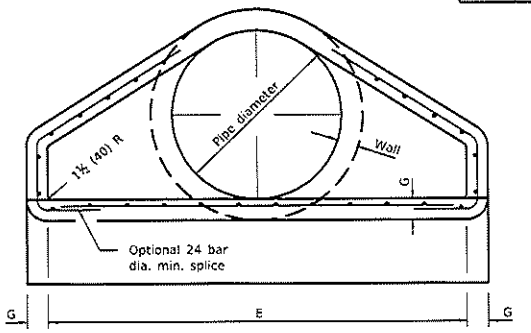
STANDARD 482011-03



PLAN



SECTION A-A



END VIEW

PIPE DIA.	APPROX. QTY. lbs. (kg)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (51)	4 (102)	24 (610)	4'-0⅜" (1.241 m)	6'-0⅜" (1.851 m)	24 (610)	2 (51)	9 (229)	1:2.4
15 (375)	740 (335)	2¼ (57)	6 (152)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	30 (762)	2¼ (57)	11 (280)	1:2.4
18 (450)	990 (450)	2½ (64)	9 (229)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	36 (914)	2½ (64)	12 (305)	1:2.4
21 (525)	1280 (580)	2¾ (70)	9 (229)	35 (889)	38 (965)	6'-1" (1.854 m)	3'-6" (1.067 m)	2¾ (70)	13 (330)	1:2.4
24 (600)	1520 (690)	3 (76)	9½ (241)	3'-7½" (1.105 m)	30 (762)	6'-1½" (1.867 m)	4'-0" (1.219 m)	3 (76)	14 (356)	1:2.5
27 (675)	1930 (875)	3¼ (83)	10½ (267)	4'-0" (1.219 m)	25½ (648)	6'-1½" (1.867 m)	4'-6" (1.372 m)	3¼ (83)	14½ (368)	1:2.4
30 (750)	2190 (995)	3½ (89)	12 (305)	4'-6" (1.375 m)	19⅜ (502)	6'-1¾" (1.874 m)	5'-0" (1.524 m)	3½ (89)	15 (381)	1:2.5
33 (825)	3200 (1450)	3¾ (95)	13½ (343)	4'-10½" (1.486 m)	39¼ (997)	8'-1¾" (2.483 m)	5'-6" (1.676 m)	3¾ (95)	17½ (445)	1:2.5
36 (900)	4100 (1860)	4 (102)	15 (381)	5'-3" (1.6 m)	34⅜ (883)	8'-1¾" (2.483 m)	6'-0" (1.829 m)	4 (102)	20 (508)	1:2.5
42 (1050)	5380 (2440)	4½ (114)	21 (533)	5'-3" (1.6 m)	35 (889)	8'-2" (2.489 m)	6'-6" (1.981 m)	4½ (114)	22 (559)	1:2.5
48 (1200)	6550 (2970)	5 (127)	24 (610)	6'-0" (1.829 m)	26 (660)	8'-2" (2.489 m)	7'-0" (2.134 m)	5 (127)	22 (559)	1:2.5
54 (1350)	8240 (3740)	5½ (140)	27 (686)	5'-5" (1.651 m)	35 (889)	8'-4" (2.54 m)	7'-6" (2.286 m)	5½ (140)	24 (610)	1:2.0
60 (1500)	8730 (3960)	6 (152)	35 (889)	5'-0" (1.524 m)	39 (991)	8'-3" (2.515 m)	8'-0" (2.438 m)	5 (127)	*	1:1.9
66 (1650)	10710 (4860)	6½ (165)	30 (762)	6'-0" (1.829 m)	27 (686)	8'-3" (2.515 m)	8'-6" (2.591 m)	5½ (140)	*	1:1.7
72 (1800)	12520 (5680)	7 (178)	36 (914)	6'-6" (1.981 m)	21 (533)	8'-3" (2.514 m)	9'-0" (2.743 m)	6 (152	*	1:1.8
78 (1950)	14770 (6700)	7½ (191)	36 (914)	7'-6" (2.286 m)	21 (533)	9'-3" (2.819 m)	9'-6" (2.896 m)	6½ (165)	*	1:1.8
84 (2100)	18160 (8240)	8 (203)	36 (914)	7'-6½" (2.299 m)	21 (533)	9'-3½" (2.832 m)	10'-0" (3.048 m)	6½ (165)	*	1:1.6

* Radius as furnished by manufacturer

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1 2011
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

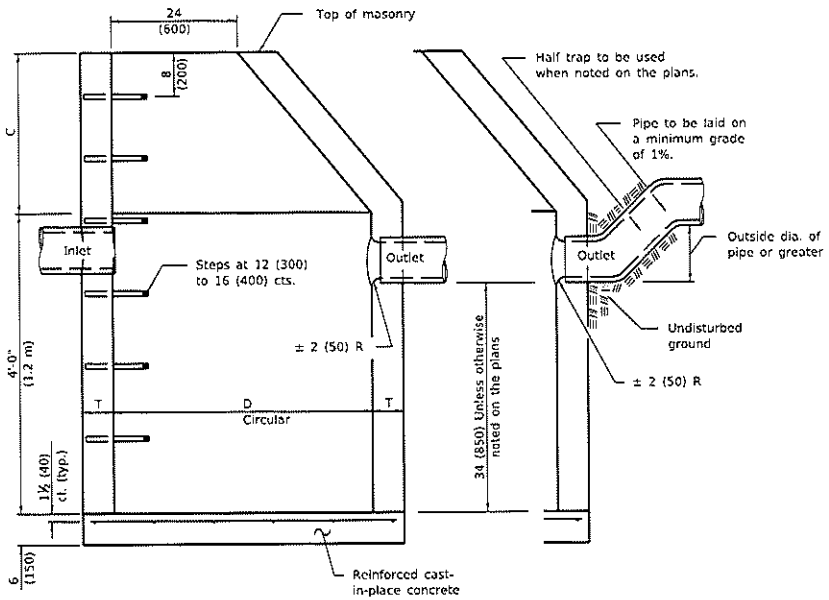
APPROVED January 1 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Clarified ref. to pipe dia.
	on Section A-A. Changed
	'inner' to 'outer' cage ref.
1-1-09	Switched units to
	English (metric).

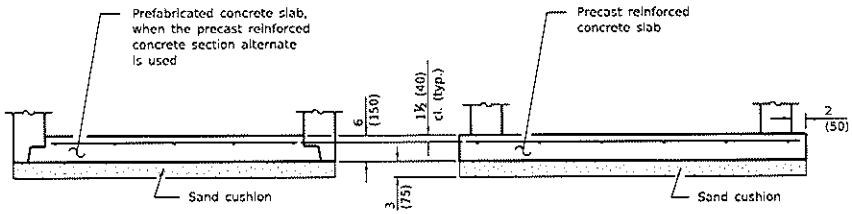
PRECAST REINFORCED CONCRETE FLARED END SECTION

STANDARD 542301-03



ELEVATION
(Standard Outlet)

ELEVATION
(Half Trap)



ALTERNATE BOTTOM SLAB

ALTERNATE MATERIALS FOR WALLS	D	C*	T (min.)
Concrete Masonry Unit	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	5 (125) 5 (125)
Brick Masonry	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	8 (200) 8 (200)
Precast Reinforced Concrete Section	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	4 (100) 5 (125)
Cast-in-place Concrete	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	6 (150) 6 (150)

* For precast reinforced concrete sections, dimension "C" may vary from the dimension given to plus 6 (150).

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.20 sq. in./ft (420 sq. mm/m) in both directions with a maximum spacing of 12 (300).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

See Standard 602601 for optional precast reinforced concrete flat slab top.

See Standard 602701 for details of steps.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2011
ENGINEER OF POLICY AND PROCEDURES

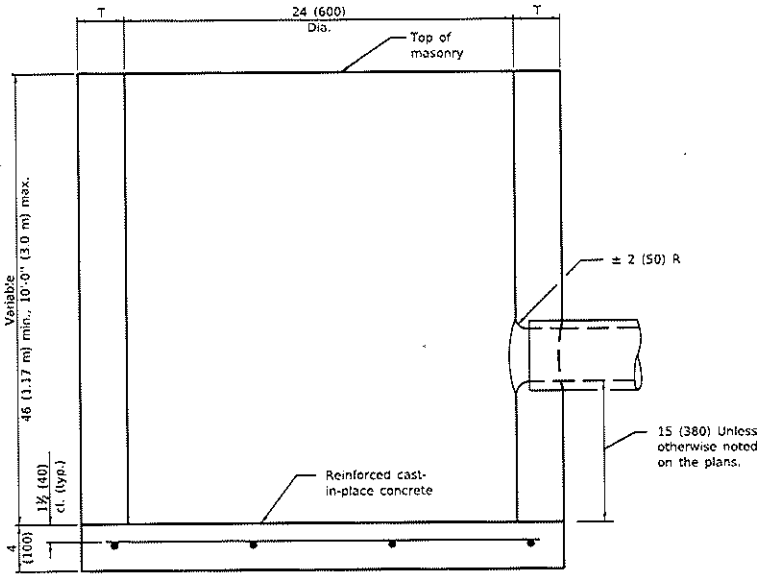
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Added 'Outside' to half trap
	note. Detail rein. in slabs.
	Revised general notes.
1-1-09	Switched units to
	English (metric).

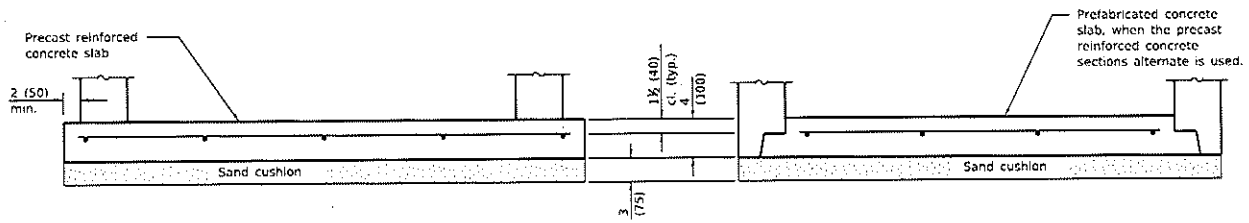
CATCH BASIN TYPE A

STANDARD 602001-02



ELEVATION

ALTERNATE MATERIALS FOR WALLS	T (min)
Precast Reinforced Concrete Section	3 (75)
Concrete Masonry Unit	5 (125)
Cast-in-Place Concrete	6 (150)
Brick Masonry	8 (200)



ALTERNATE BOTTOM SLAB

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.27 sq. in./ft. (570 sq. mm/m) in both directions with a maximum spacing of 9 (230).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2011
ENGINEER OF POLICY AND PROCEDURES
Michael Brand

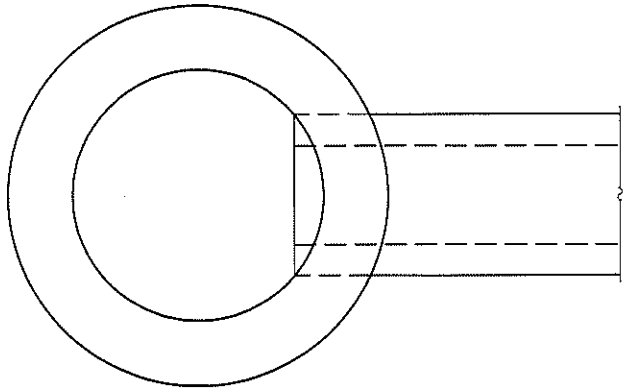
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT
Scott Schaffer

ISSUED 1-1-11

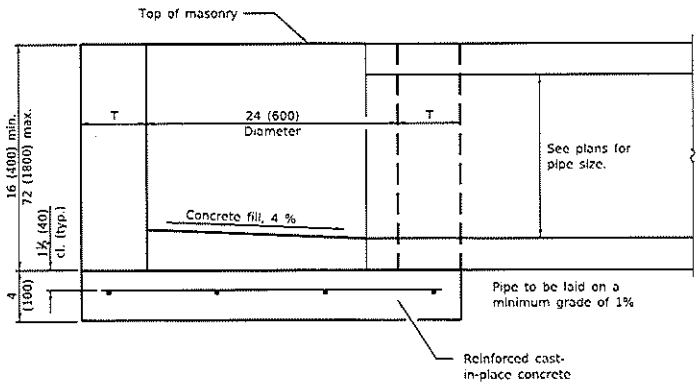
DATE	REVISIONS
1-1-11	Detailed rein. in slabs.
	Added max. limit to height.
	Added general notes.
1-1-09	Switched units to
	English (metric).

CATCH BASIN TYPE C

STANDARD 602011-02

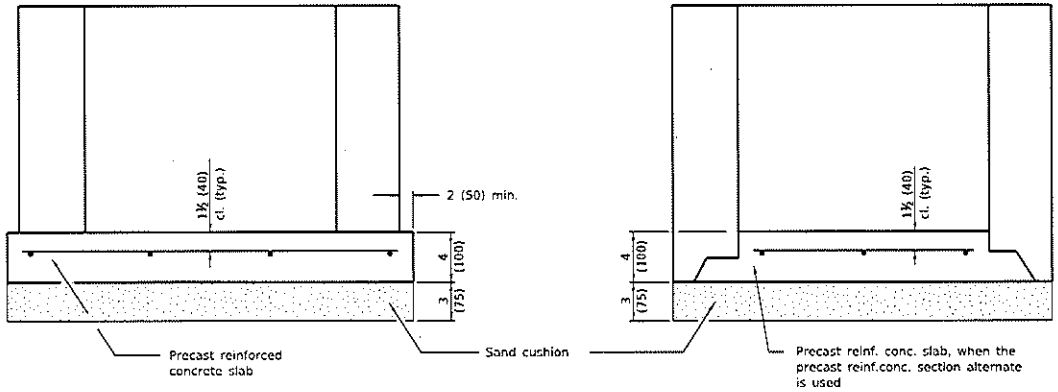


PLAN



ELEVATION

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8 (200)
CAST-IN-PLACE CONCRETE	6 (150)
CONCRETE MASONRY UNIT	5 (125)
PRECAST REINFORCED CONCRETE SECTION	3 (75)



ALTERNATE METHODS

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.24 sq. in./ft. (510 sq. mm/m) in both directions with a maximum spacing of 10 (250).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2014
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT

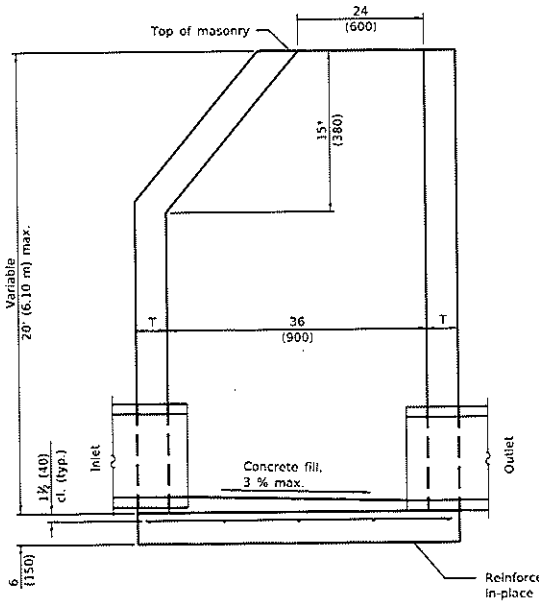
ISSUED 1-1-97

DATE	REVISIONS
1-1-14	Increased height to
	72 (1800) maximum.
1-1-11	Detailed rein. in slabs.
	Added max. limit to height.
	Added general notes.

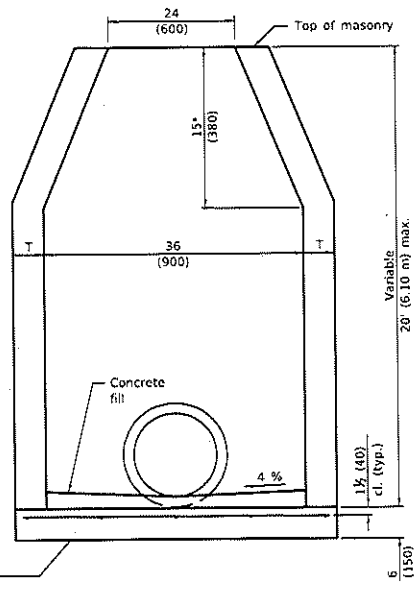
INLET - TYPE A

STANDARD 602301-04

* For precast reinforced concrete sections, this dimension may vary from the dimension given to plus 6 (150).

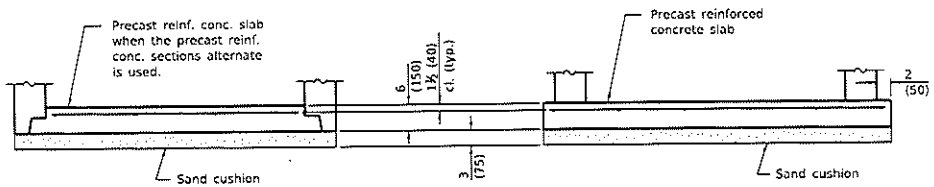


ELEVATION - ECCENTRIC



ELEVATION - CONCENTRIC

ALTERNATE MATERIALS FOR WALLS	T (min.)
Concrete Masonry Unit	5 (125)
Brick Masonry	8 (200)
Precast Reinforced Concrete Section	3 (75)
Cast-in-Place Concrete	6 (150)



ALTERNATE BOTTOM SLAB

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.20 sq. in./ft. (420 sq. mm/m) in both directions with a maximum spacing of 12 (300).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

See Standard 602601 for optional Precast Reinforced Concrete Flat Slab Top.

All dimensions are in inches (millimeters) unless otherwise shown.

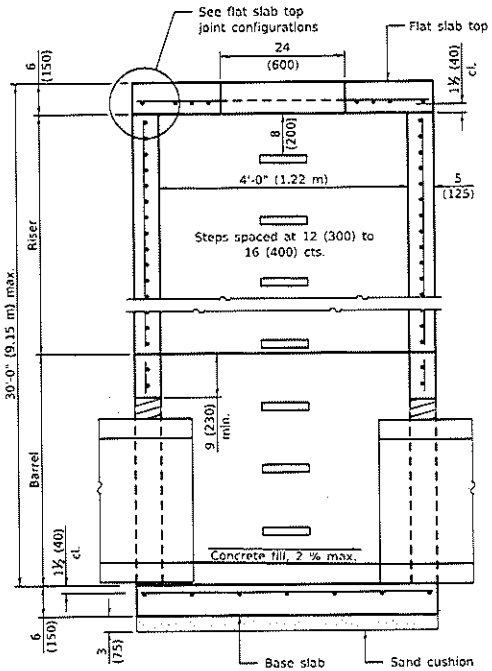
Illinois Department of Transportation

PASSED January 1, 2011
ENGINEER OF POLICY AND PROCEDURES
Michael Brand
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-11	Detailed rein. in slabs.
	Added max. limit to height.
	Revised general notes.
1-1-09	Switched units to
	English (metric).

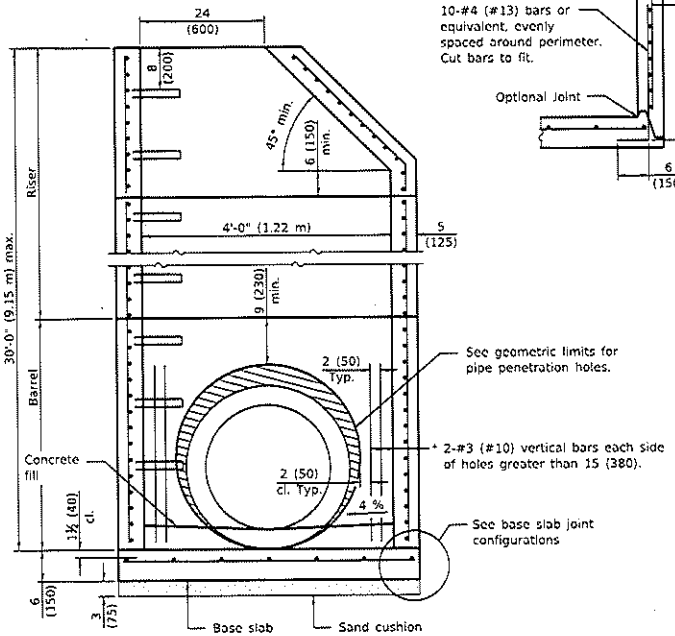
INLET - TYPE B

STANDARD 602306-03



SECTION PARALLEL TO PIPE

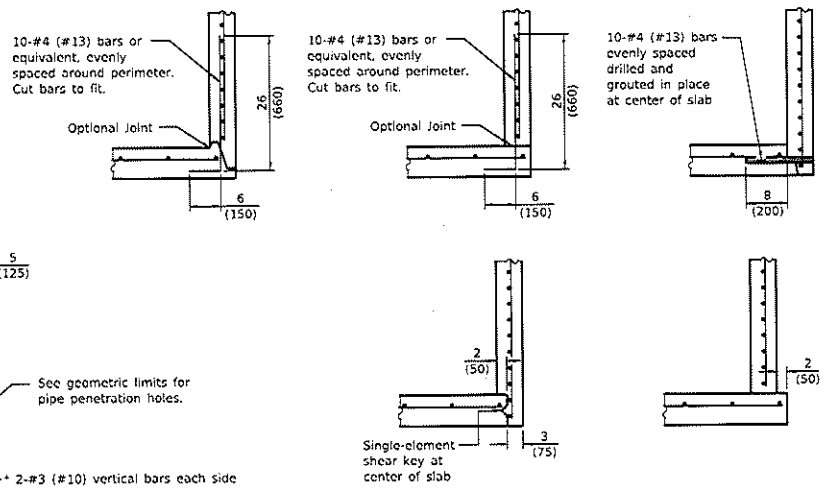
(Without conical top riser)



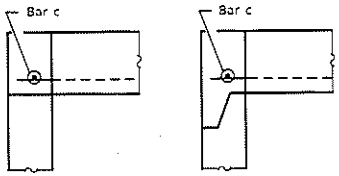
SECTION PERPENDICULAR TO PIPE

(With conical top riser)

* As an alternate, the barrel wall reinforcement may be reduced to riser wall reinforcement with #3 (#10) bars placed around the pipe penetration holes as shown. This option may be utilized when the pipe penetration holes are formed as opposed to cored.



BASE SLAB JOINT CONFIGURATIONS

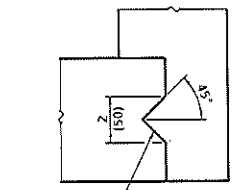


FLAT SLAB TOP JOINT CONFIGURATIONS

(Shown at access hole)

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

1. A minimum of 9 (230) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 24 (600).
2. A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).
3. A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.
4. Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.
5. The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).
6. Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.



SHEAR KEY GEOMETRY

(Reinforcement not shown for clarity)

GENERAL NOTES

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations, except as noted.

See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise noted.

DATE	REVISIONS
3-1-19	Moved wall reinforcement from
	inside face to middle.
1-1-19	Expanded / refined reinforcement
	options. Increased manhole depths.

PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER

(Sheet 1 of 2)

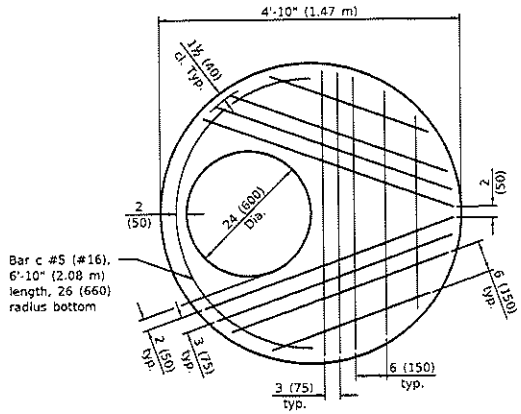
STANDARD 602401-06

Illinois Department of Transportation

PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES

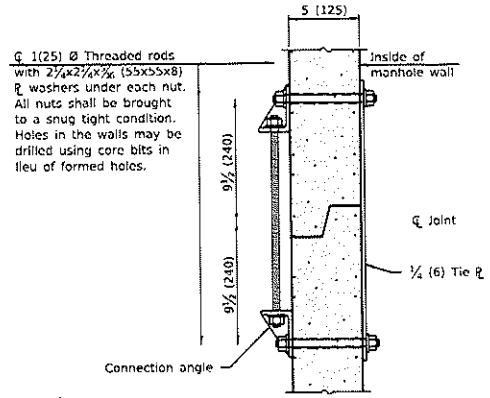
APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

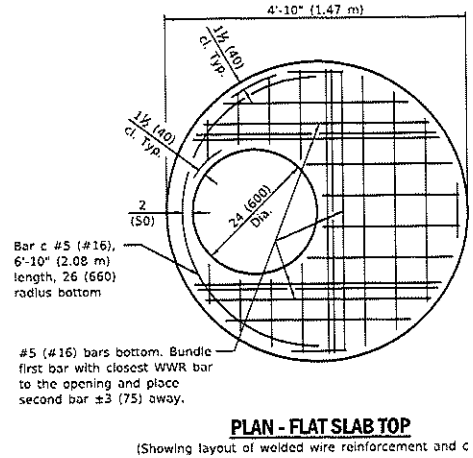


PLAN - FLAT SLAB TOP

(Showing layout of reinforcement bars and c bars)

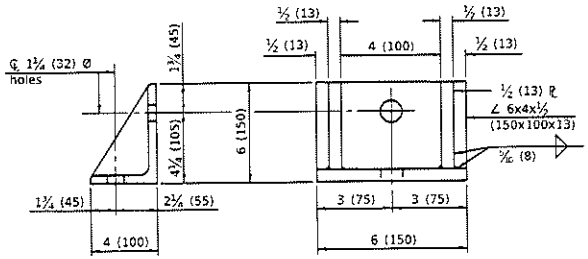


JOINT SPLICE

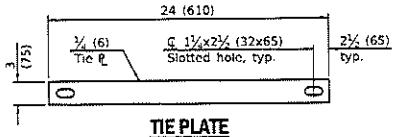


PLAN - FLAT SLAB TOP

(Showing layout of welded wire reinforcement and c bars)



CONNECTION ANGLE



TIE PLATE

FLAT SLAB TOP REINFORCEMENT

Location	WWR (each direction)		Rebar		
	A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Bottom Mat	** 0.62 sq. in./ft. (1312 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#5 (#16)

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_s (min.)	Spacing (max.)
Riser	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
Barrel	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.16 sq. in./ft. (339 sq. mm/m)	4 (100)

BASE SLAB REINFORCEMENT

Location	Total Height	WWR or Rebar (each direction)	
		A_s (min.)	Spacing (max.)
Top Mat	≤ 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)
	> 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)

Illinois Department of Transportation

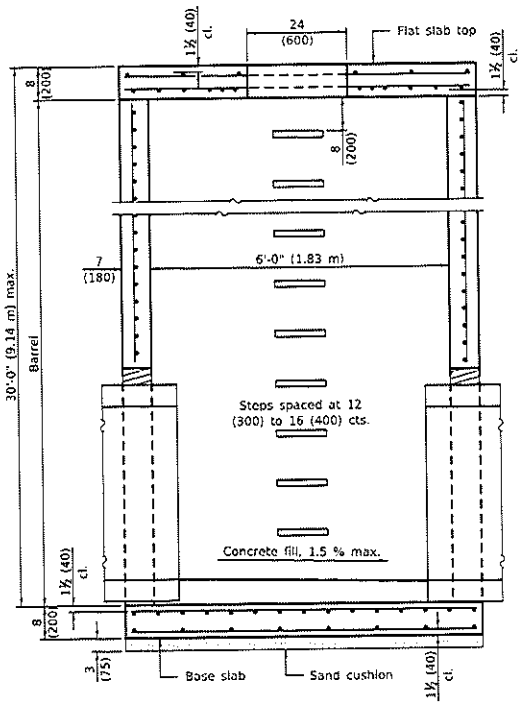
PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

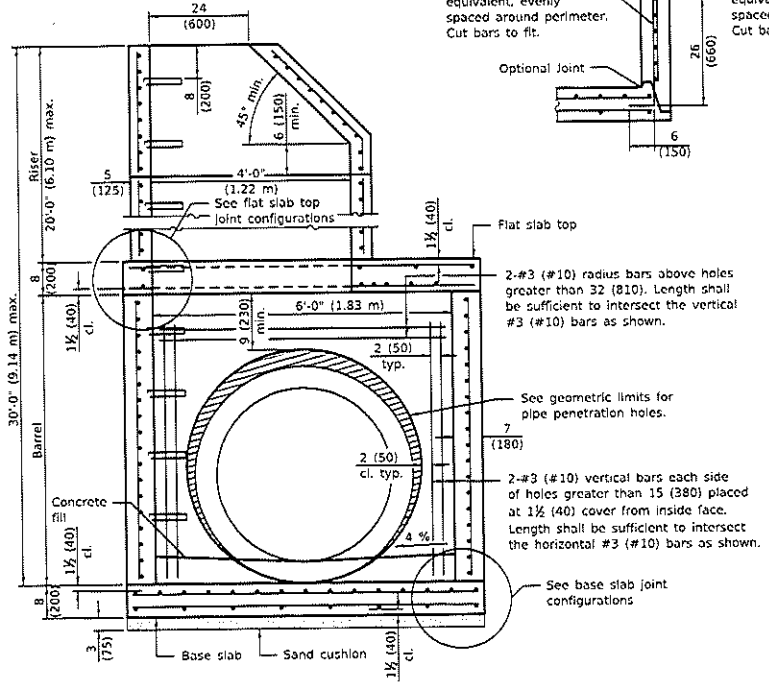
ISSUED 1-19

PRECAST MANHOLE TYPE A
4' (1.22 m) DIAMETER

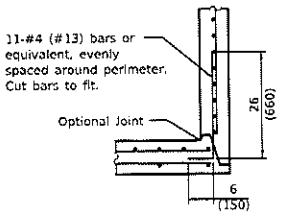
STANDARD 602401-06

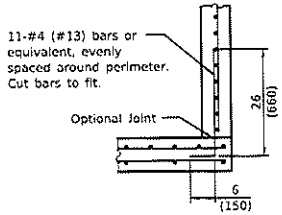


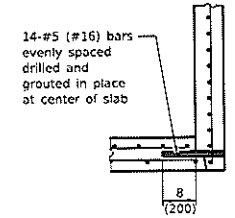
SECTION PARALLEL TO PIPE
(Without conical top riser)

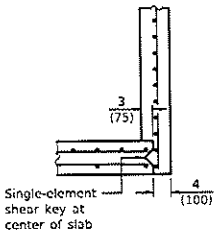


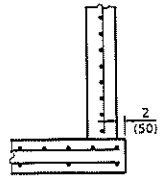
SECTION PERPENDICULAR TO PIPE
(With conical top riser)



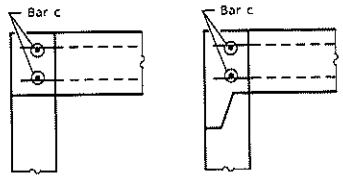




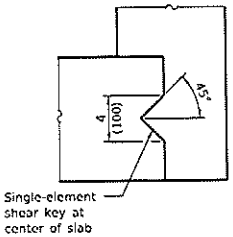




BASE SLAB JOINT CONFIGURATIONS



FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)



SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

1. A minimum of 9 (230) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 32 (810).
2. A minimum 9 (230) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).
3. A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.
4. Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.
5. The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).
6. Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.

GENERAL NOTES

Pipe holes shall be formed to facilitate proper placement of hole reinforcement.

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations, except as noted.

See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise noted.

Illinois Department of Transportation

PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

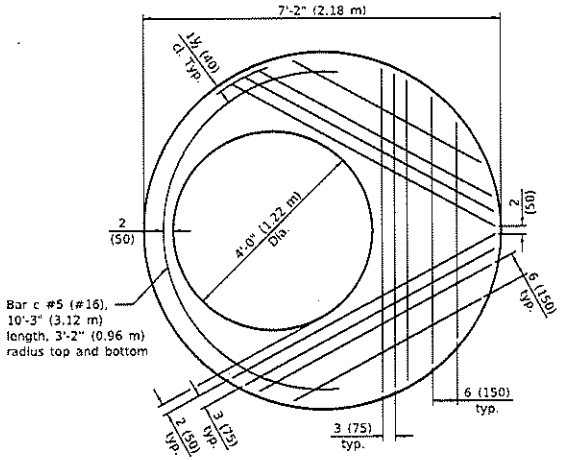
ISSUED 1-19

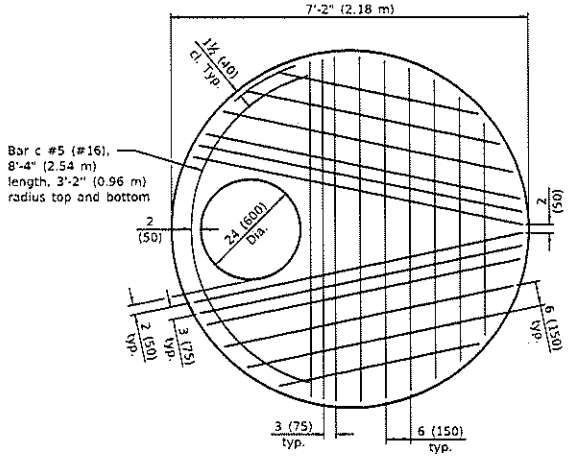
DATE	REVISIONS
3-1-19	Moved wall reinforcement from
	inside face to middle.
1-1-19	Expanded / refined reinforcement
	options. Increased manhole depths.

PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER

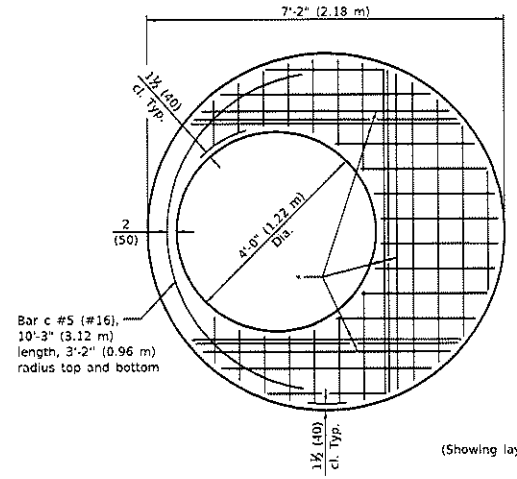
(Sheet 1 of 3)

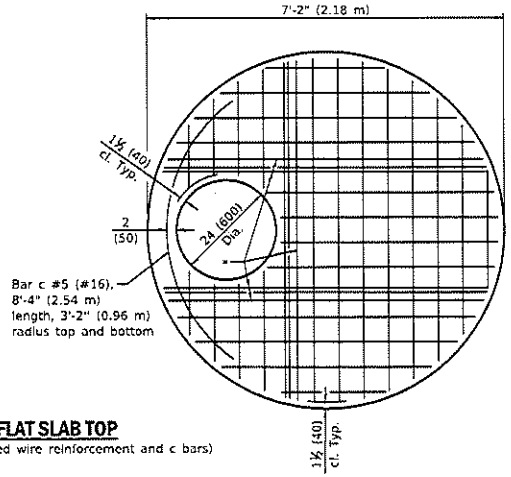
STANDARD 602406-10





PLAN - FLAT SLAB TOP
(Showing layout of bottom reinforcement bars and c bars)





PLAN - FLAT SLAB TOP
(Showing layout of welded wire reinforcement and c bars)

* #5 (#16) bars for risers ≤ 10 ft. (3.05 m) tall or #6 (#19) bars for risers > 10 ft. (3.05 m) tall bottom. Bundle first bar with closest WWR bar to the opening and place second bar ±3 (75) away.

Illinois Department of Transportation

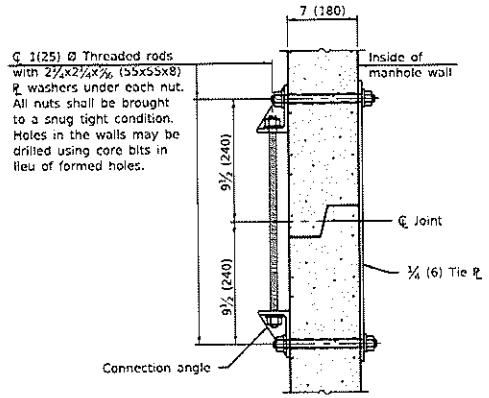
PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

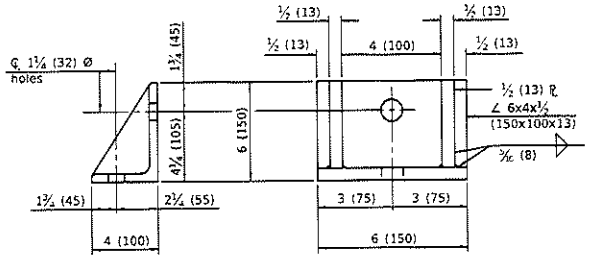
ISSUED 1-1-97

PRECAST MANHOLE TYPE A
6' (1.83 m) DIAMETER

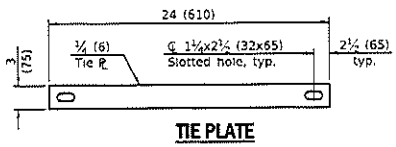
STANDARD 602406-10



JOINT SPLICE



CONNECTION ANGLE



TIE PLATE

FLAT SLAB TOP REINFORCEMENT

Location	Riser Height (RH)	WWR (each direction)		Rebar (each direction except as noted)		
		A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Top Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	RH ≤ 10 ft. (3.05 m)	** 0.62 sq. in./ft. (1312 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#5 (#16)
	RH > 10 ft. (3.05 m)	** 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)			#6 (#19)

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_s (min.)	Spacing (max.)
4 ft. (1.22 m) Ø Riser	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
6 ft. (1.83 m) Ø Barrel	Circumferential	0.18 sq. in./ft. (381 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)

BASE SLAB REINFORCEMENT

Location	Riser Height (RH)/ Total Height (TH)	WWR or Rebar (each direction)	
		A_s (min.)	Spacing (max.)
Top Mat	RH ≤ 10 ft. (3.05 m) & TH ≤ 20 ft. (6.10 m)	0.28 sq. in./ft. (593 sq. mm/m)	6 (150)
	RH > 10 ft. (3.05 m) or TH > 20 ft. (6.10 m)	0.40 sq. in./ft. (847 sq. mm/m)	6 (150)
Bottom Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)

Illinois Department of Transportation

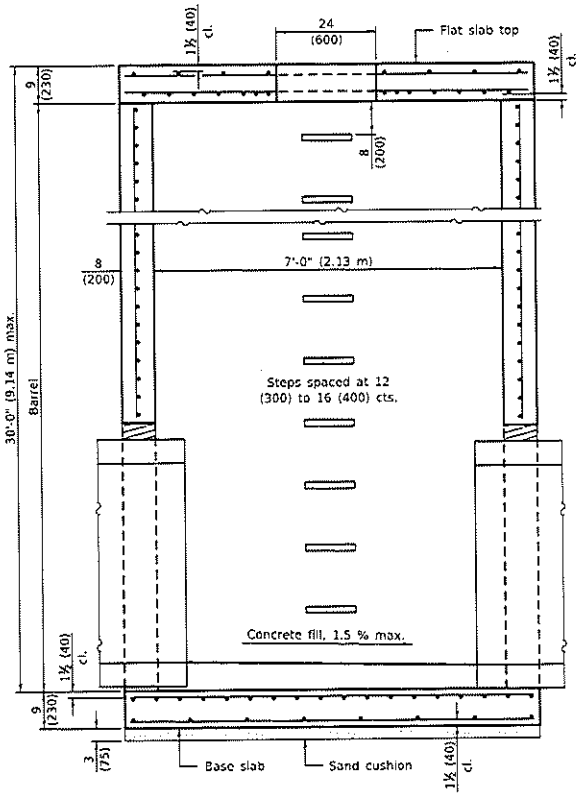
PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

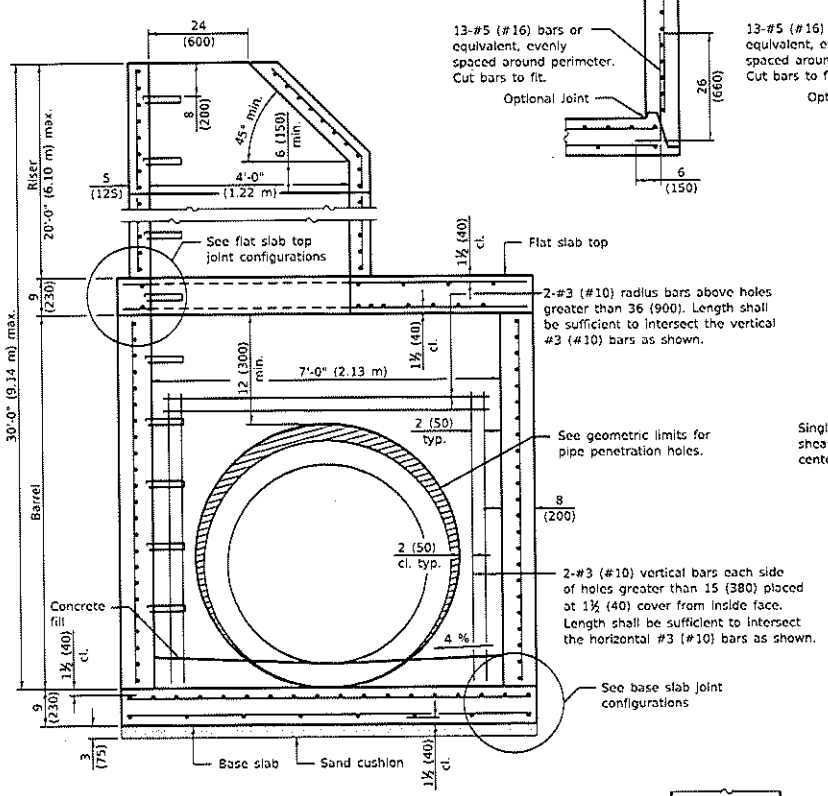
1-1-97

PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER

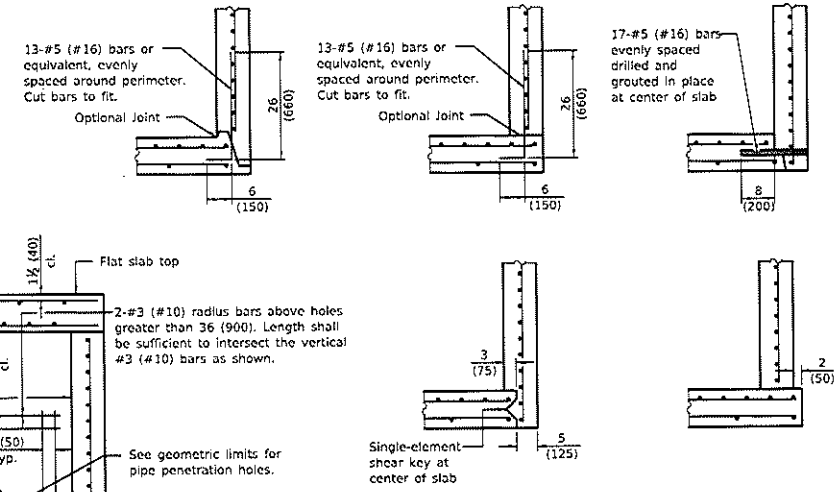
STANDARD 602406-10



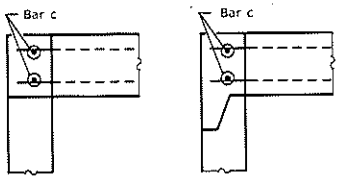
SECTION PARALLEL TO PIPE
(Without conical top riser)



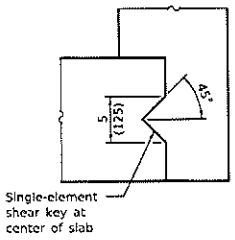
SECTION PERPENDICULAR TO PIPE
(With conical top riser)



BASE SLAB JOINT CONFIGURATIONS



FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)



SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

1. A minimum of 12 (300) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 36 (900).
2. A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).
3. A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.
4. Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.
5. The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).
6. Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.

GENERAL NOTES

Pipe holes shall be formed to facilitate proper placement of hole reinforcement.

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations, except as noted.

See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise noted.

Illinois Department of Transportation

PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES

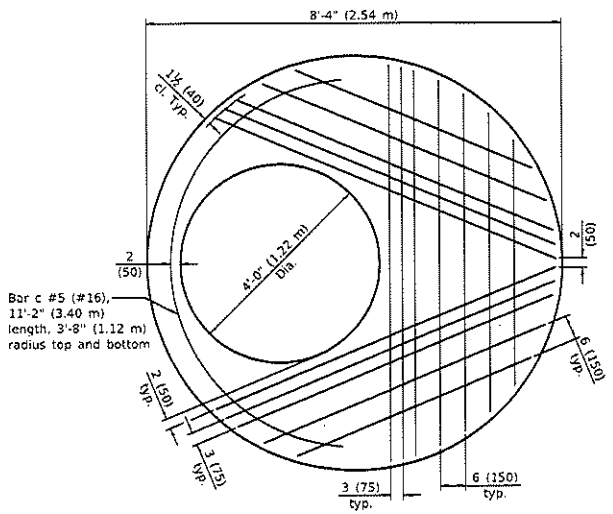
APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

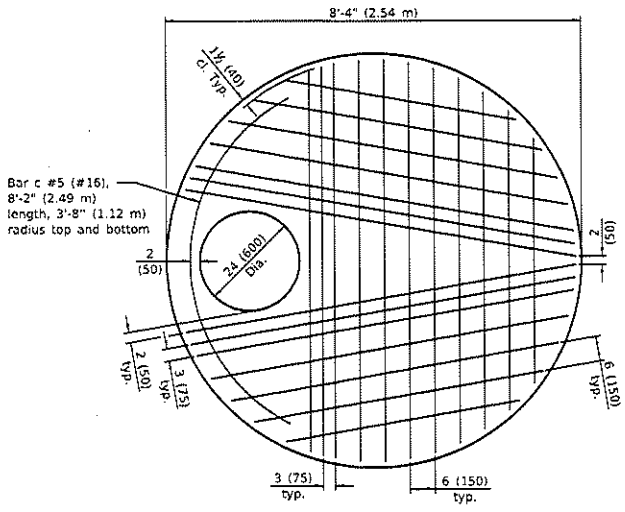
ISSUED 4-1-05

DATE	REVISIONS
3-1-19	Moved wall reinforcement from
	inside face to middle.
1-1-19	Expanded / refined reinforcement
	options. Increased manhole depths.

PRECAST MANHOLE TYPE A
7' (2.13 m) DIAMETER

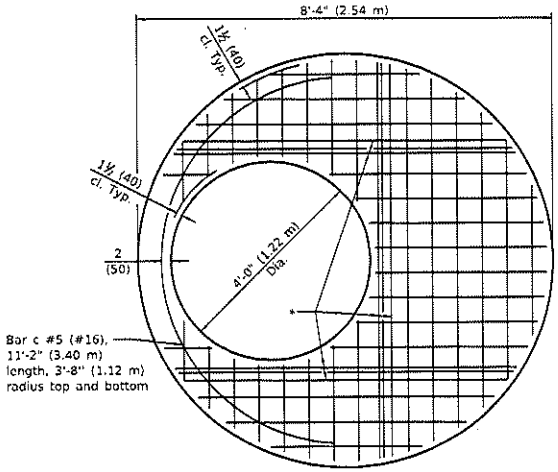
STANDARD 602411-08

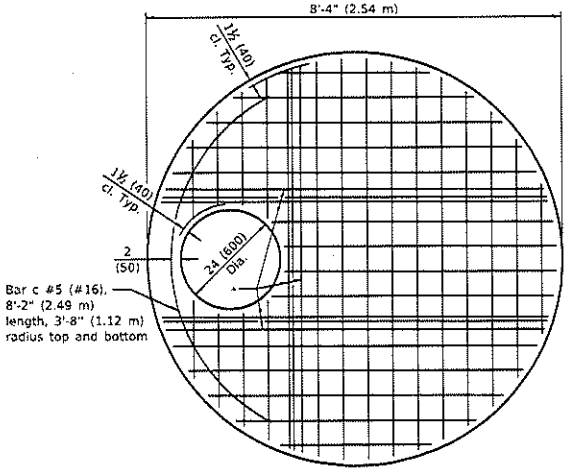




PLAN - FLAT SLAB TOP

(Showing layout of bottom reinforcement bars and c bars)





PLAN - FLAT SLAB TOP

(Showing layout of Welded Wire Reinforcement and c bars)
WWR not permitted for riser heights > 10' (3.05 m).

* #5 (#16) bars bottom. Bundle first bar with closest WWR bar to the opening and place second bar ±3 (75) away.

Illinois Department of Transportation

PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES

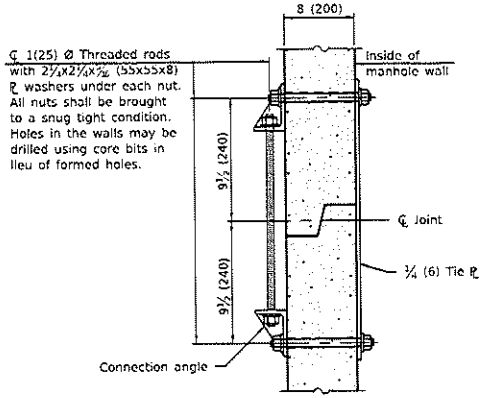
APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

BSSD 4 (1-19)

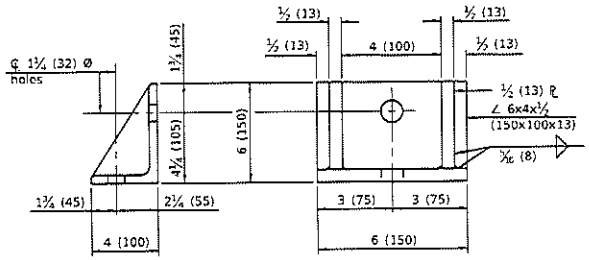
PRECAST MANHOLE TYPE A
7' (2.13 m) DIAMETER

(Sheet 2 of 3)

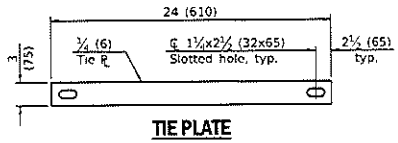
STANDARD 602411-08



JOINT SPLICE



CONNECTION ANGLE



TIE PLATE

FLAT SLAB TOP REINFORCEMENT

Location	Riser Height (RH)	WWR (each direction)		Rebar (each direction except as noted)		
		A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Top Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	RH ≤ 10 ft. (3.05 m)	** 0.62 sq. in./ft. (312 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#5 (#16)
	RH > 10 ft. (3.05 m)	WWR not permitted				#7 (#22)

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_s (min.)	Spacing (max.)
4 ft. (1.22 m) Ø Riser	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
7 ft. (2.13 m) Ø Barrel	Circumferential	0.21 sq. in./ft. (445 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)

BASE SLAB REINFORCEMENT

Location	Riser Height (RH)/ Total Height (TH)	WWR or Rebar (each direction)	
		A_s (min.)	Spacing (max.)
Top Mat	RH ≤ 10 ft. (3.05 m) & TH ≤ 20 ft. (6.10 m)	0.32 sq. in./ft. (677 sq. mm/m)	6 (150)
	RH > 10 ft. (3.05 m) or TH > 20 ft. (6.10 m)	0.52 sq. in./ft. (1101 sq. mm/m)	6 (150)
Bottom Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)

Illinois Department of Transportation

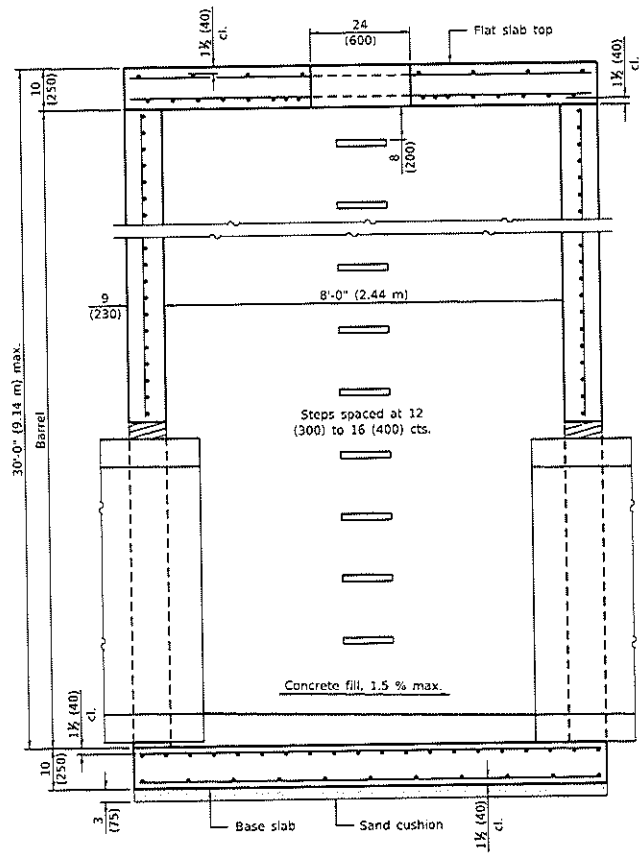
PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

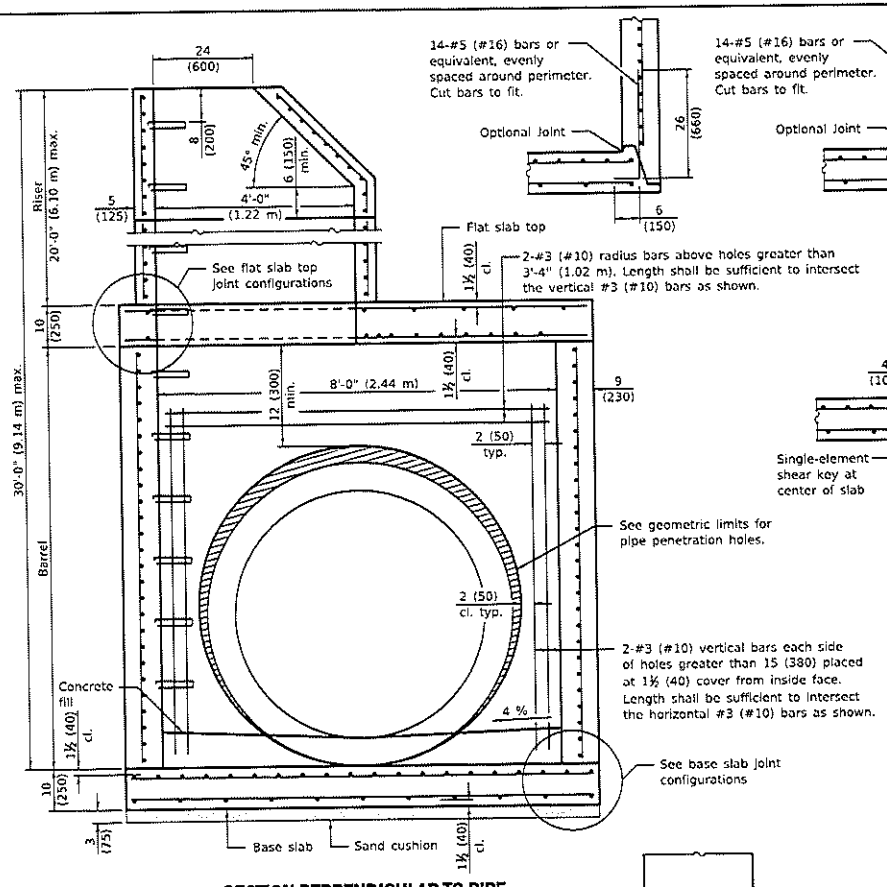
ISSUED 4-16

PRECAST MANHOLE TYPE A 7' (2.13 m) DIAMETER

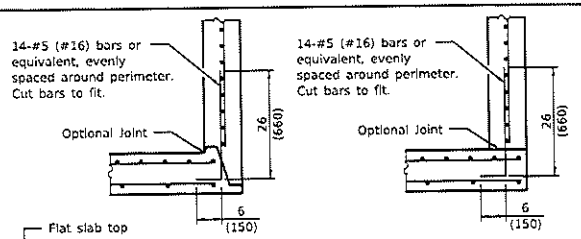
STANDARD 602411-08

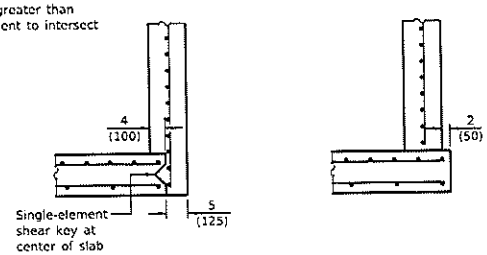


SECTION PARALLEL TO PIPE
(Without conical top riser)

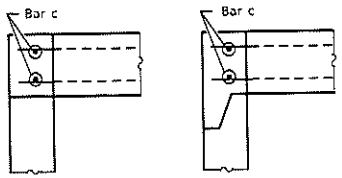


SECTION PERPENDICULAR TO PIPE
(With conical top riser)





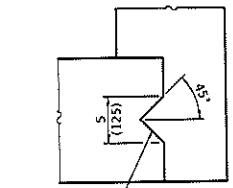
BASE SLAB JOINT CONFIGURATIONS



FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

1. A minimum of 12 (300) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 3'-4" (1.02 m).
2. A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).
3. A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.
4. Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.
5. The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).
6. Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.



SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

GENERAL NOTES

Pipe holes shall be formed to facilitate proper placement of hole reinforcement.

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations, except as noted.

See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise noted.

Illinois Department of Transportation

PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES

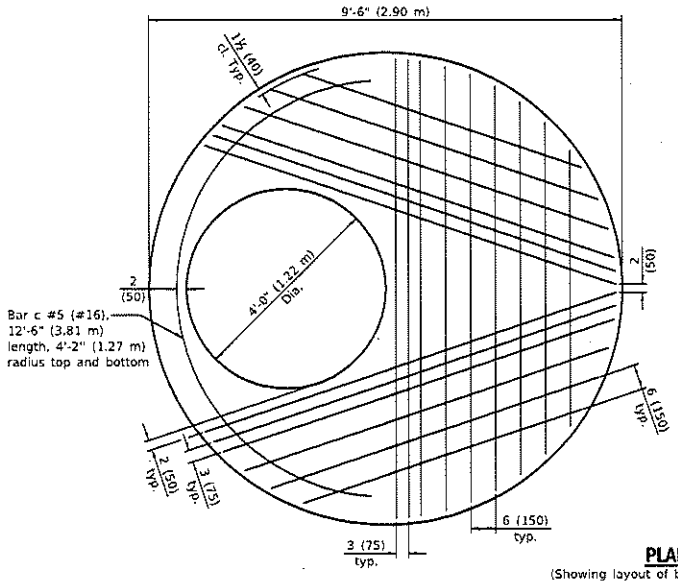
APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

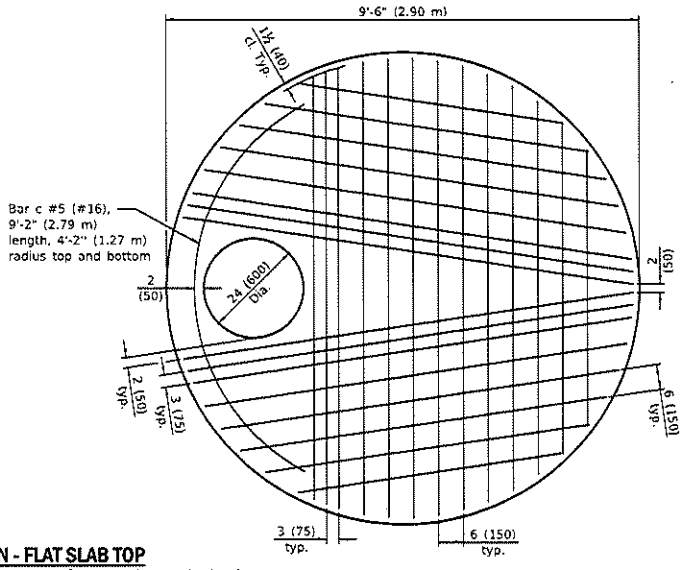
ISSUED 4-1-19

DATE	REVISIONS
3-1-19	Moved wall reinforcement from
	inside face to middle.
1-1-19	Expanded / refined reinforcement
	options. Increased manhole depths.

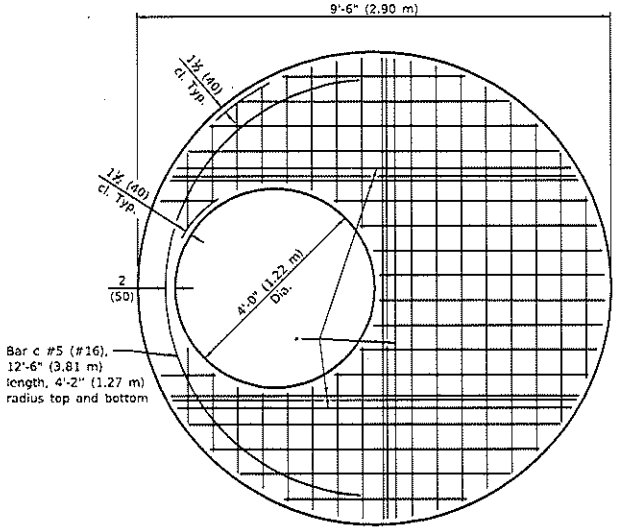
PRECAST MANHOLE TYPE A
8' (2.44 m) DIAMETER

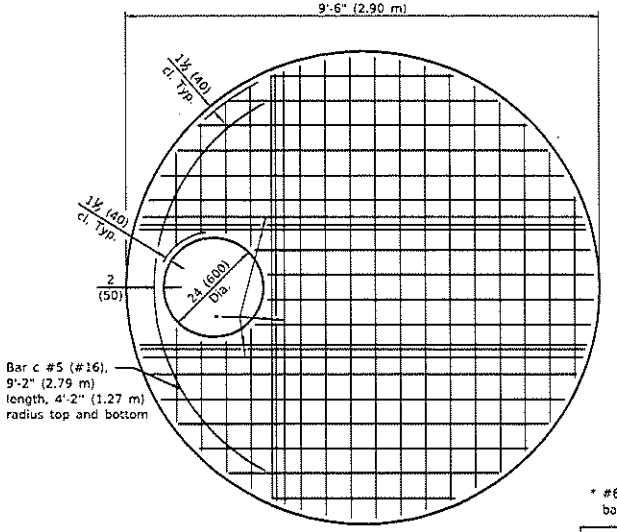
STANDARD 602416-08





PLAN - FLAT SLAB TOP
(Showing layout of bottom reinforcement bars and c bars)





* #6 (#19) bars bottom. Bundle first bar with closest WWR bar to the opening and place second bar ±3 (75) away.

PLAN - FLAT SLAB TOP
(Showing layout of Welded Wire Reinforcement and c bars)
WWR not permitted for riser heights > 10' (3.05 m).

Illinois Department of Transportation

PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES

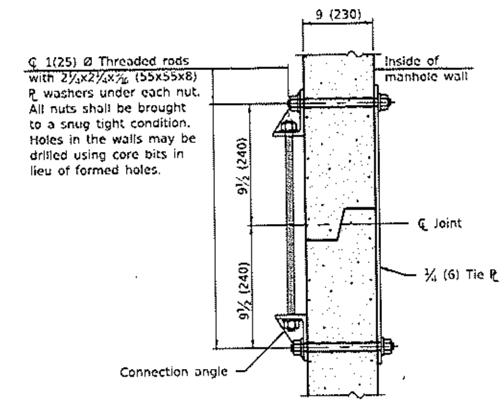
APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 4-1-05

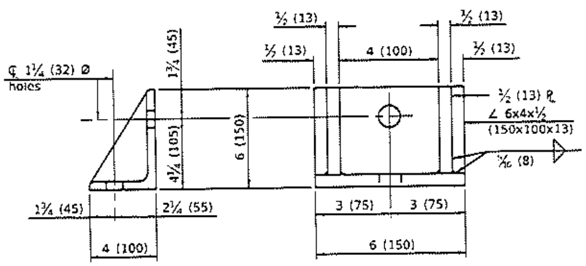
PRECAST MANHOLE TYPE A
8' (2.44 m) DIAMETER

(Sheet 2 of 3)

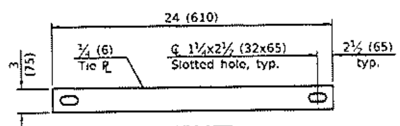
STANDARD 602416-08



JOINT SPLICE



CONNECTION ANGLE



TIE PLATE

FLAT SLAB TOP REINFORCEMENT

Location	Riser Height (RH)	WWR (each direction)		Rebar (each direction except as noted)		
		A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Top Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	RH ≤ 10 ft. (3.05 m)	** 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)
	RH > 10 ft. (3.05 m)	WWR not permitted				#7 (#22)

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_s (min.)	Spacing (max.)
4 ft. (1.22 m) Ø Riser	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
8 ft. (2.44 m) Ø Barrel	Circumferential	0.24 sq. in./ft. (508 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)

BASE SLAB REINFORCEMENT

Location	Riser Height (RH)/ Total Height (TH)	WWR or Rebar (each direction)	
		A_s (min.)	Spacing (max.)
Top Mat	RH ≤ 10 ft. (3.05 m) & TH ≤ 20 ft. (6.10 m)	0.36 sq. in./ft. (762 sq. mm/m)	6 (150)
	RH > 10 ft. (3.05 m) or TH > 20 ft. (6.10 m)	0.60 sq. in./ft. (1270 sq. mm/m)	6 (150)
Bottom Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)

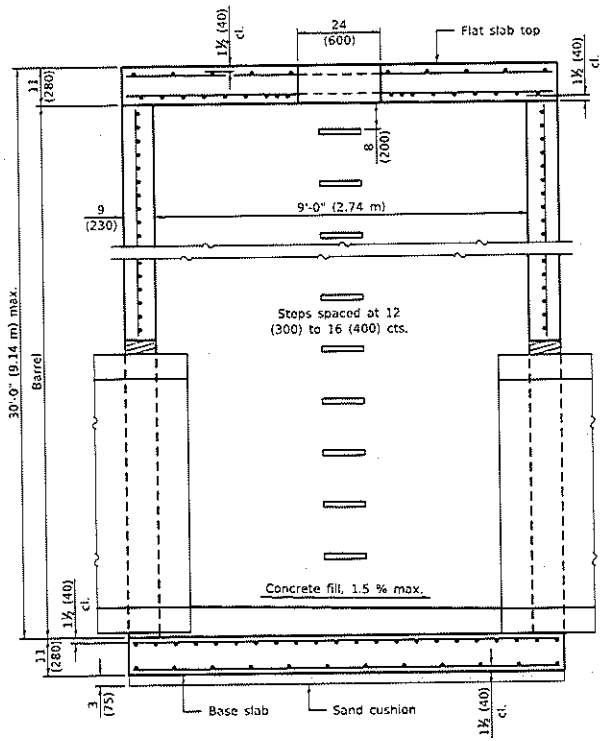
Illinois Department of Transportation

PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES
APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 4-1-05

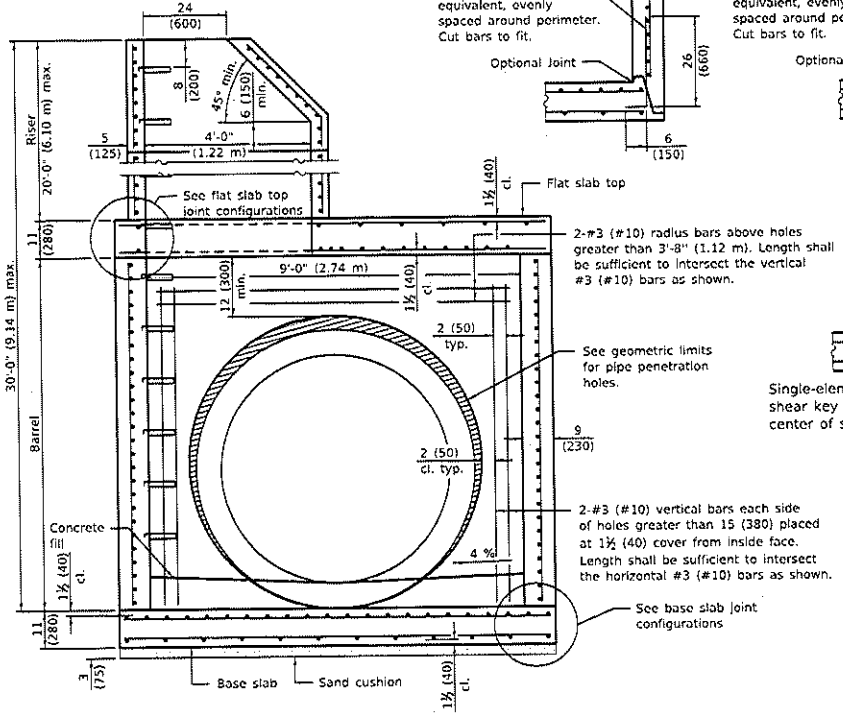
PRECAST MANHOLE TYPE A 8' (2.44 m) DIAMETER

(Sheet 3 of 3)

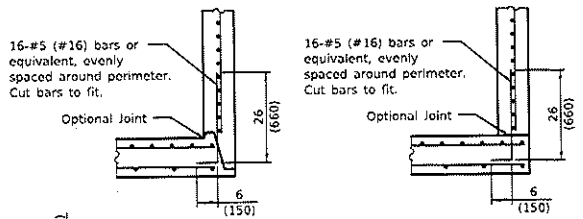
STANDARD 602416-08

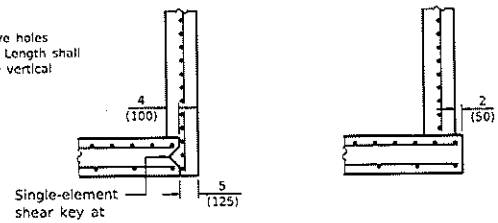


SECTION PARALLEL TO PIPE
(Without conical top riser)

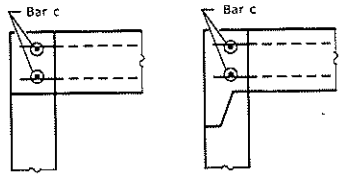


SECTION PERPENDICULAR TO PIPE
(With conical top riser)





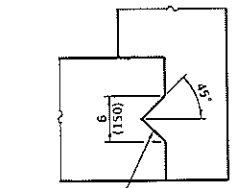
BASE SLAB JOINT CONFIGURATIONS



FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

1. A minimum of 12 (300) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 3'-8" (1.12 m).
2. A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).
3. A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.
4. Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.
5. The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).
6. Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.



SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

GENERAL NOTES

Pipe holes shall be formed to facilitate proper placement of hole reinforcement.

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations, except as noted.

See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise noted.

Illinois Department of Transportation

PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES

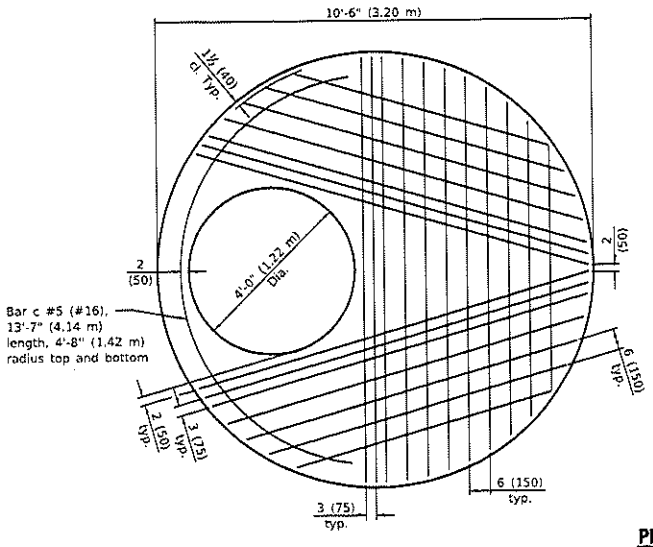
APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

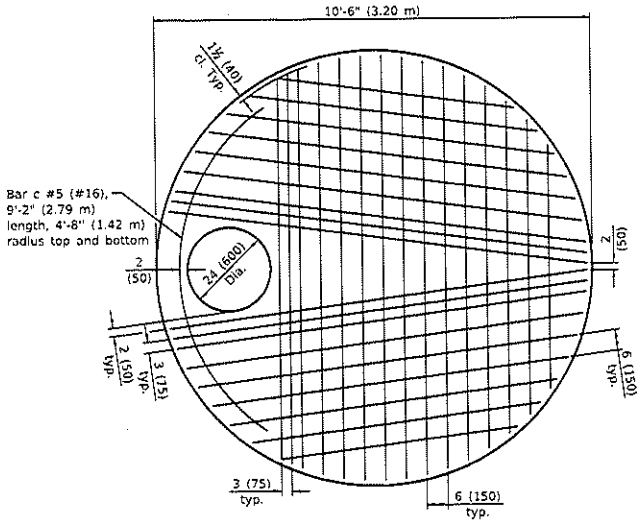
ISSUED 01-19

DATE	REVISIONS
3-1-19	Moved wall reinforcement from
	inside face to middle.
1-1-19	Expanded / refined reinforcement
	options. Increased manhole depths.

PRECAST MANHOLE TYPE A
9' (2.74 m) DIAMETER

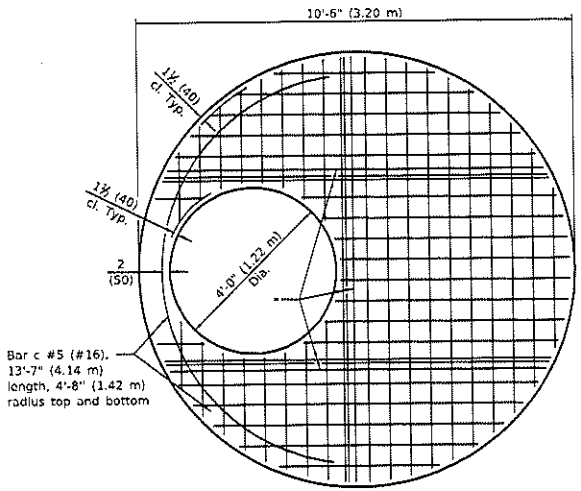
STANDARD 602421-08

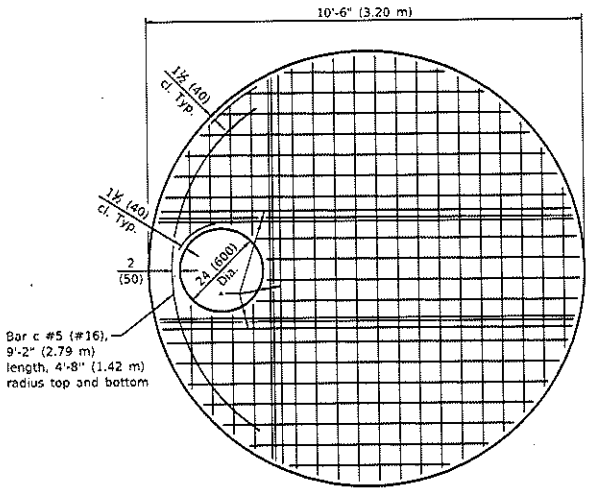




PLAN - FLAT SLAB TOP

(Showing layout of bottom reinforcement bars and c bars)





PLAN - FLAT SLAB TOP

(Showing layout of welded wire reinforcement and c bars)
WWR not permitted for riser heights > 10' (3.05 m).

* #6 (#19) bars bottom. Bundle first bar with closest WWR bar to the opening and place second bar ±3 (75) away.

Illinois Department of Transportation

PASSED March 1 2019
ENGINEER OF POLICY AND PROCEDURES

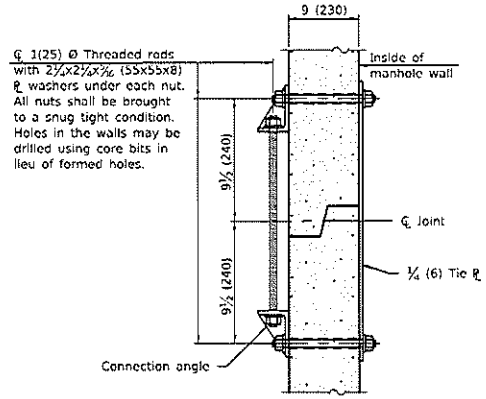
APPROVED March 1 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 4-1-19

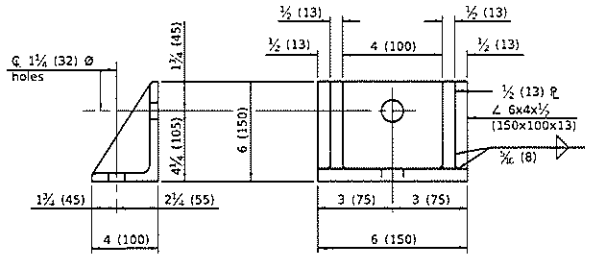
PRECAST MANHOLE TYPE A 9' (2.74 m) DIAMETER

(Sheet 2 of 3)

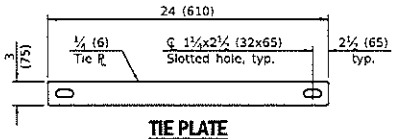
STANDARD 602421-08



JOINT SPLICE



CONNECTION ANGLE



TIE PLATE

FLAT SLAB TOP REINFORCEMENT

Location	Riser Height (RH)	WWR (each direction)		Rebar (each direction except as noted)		
		A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Top Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	RH ≤ 10 ft. (3.05 m)	** 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)
	RH > 10 ft. (3.05 m)	WWR not permitted				#8 (#25)

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_s (min.)	Spacing (max.)
4 ft. (1.22 m) Ø Riser	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
9 ft. (2.74 m) Ø Barrel	Circumferential	0.27 sq. in./ft. (572 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)

BASE SLAB REINFORCEMENT

Location	Riser Height (RH)/ Total Height (TH)	WWR or Rebar (each direction)	
		A_s (min.)	Spacing (max.)
Top Mat	RH ≤ 10 ft. (3.05 m) & TH ≤ 20 ft. (6.10 m)	0.44 sq. in./ft. (931 sq. mm/m)	6 (150)
	RH > 10 ft. (3.05 m) or TH > 20 ft. (6.10 m)	0.72 sq. in./ft. (1524 sq. mm/m)	6 (150)
Bottom Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)

Illinois Department of Transportation

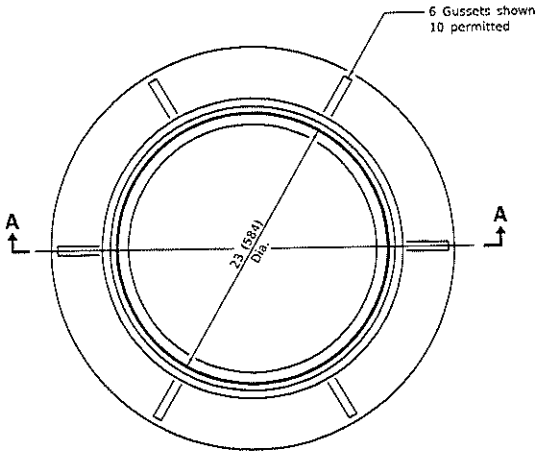
PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

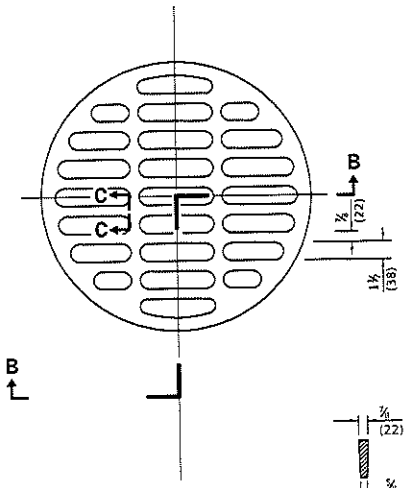
ISSUED 4-1-05

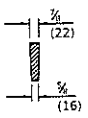
PRECAST MANHOLE TYPE A 9' (2.74 m) DIAMETER

STANDARD 602421-08

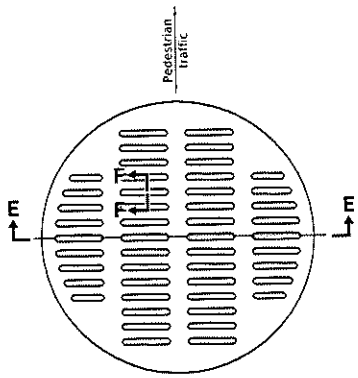


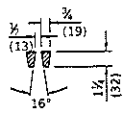
CAST FRAME



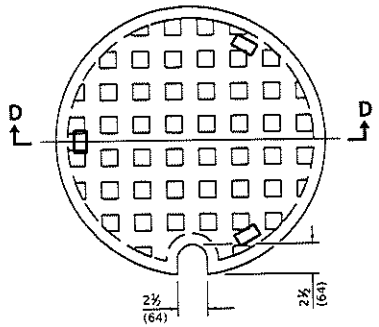


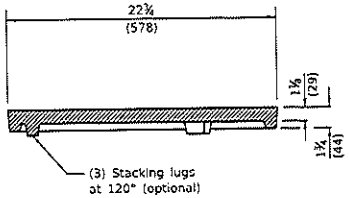
SECTION C-C





SECTION F-F

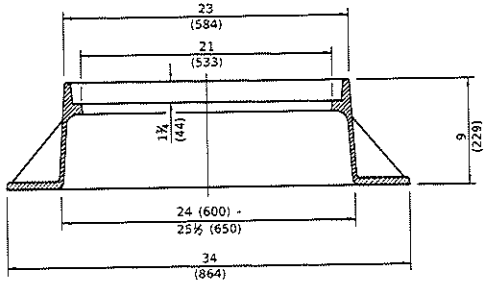




SECTION D-D

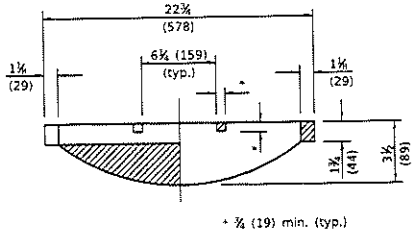
CAST CLOSED LID

Gray Iron Lid



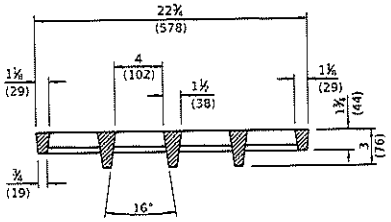
SECTION A-A

Gray Iron



SECTION B-B

CAST OPEN LID



SECTION E-E

ADA COMPLIANT
CAST OPEN LID

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-20	Revised dimension in Section B-B
	of cast open lid.
1-1-15	Revised dimensioning of
	frame. Added ADA compliant
	open lid.
1-1-09	Switched units to English (metric).

FRAME AND LIDS TYPE 1

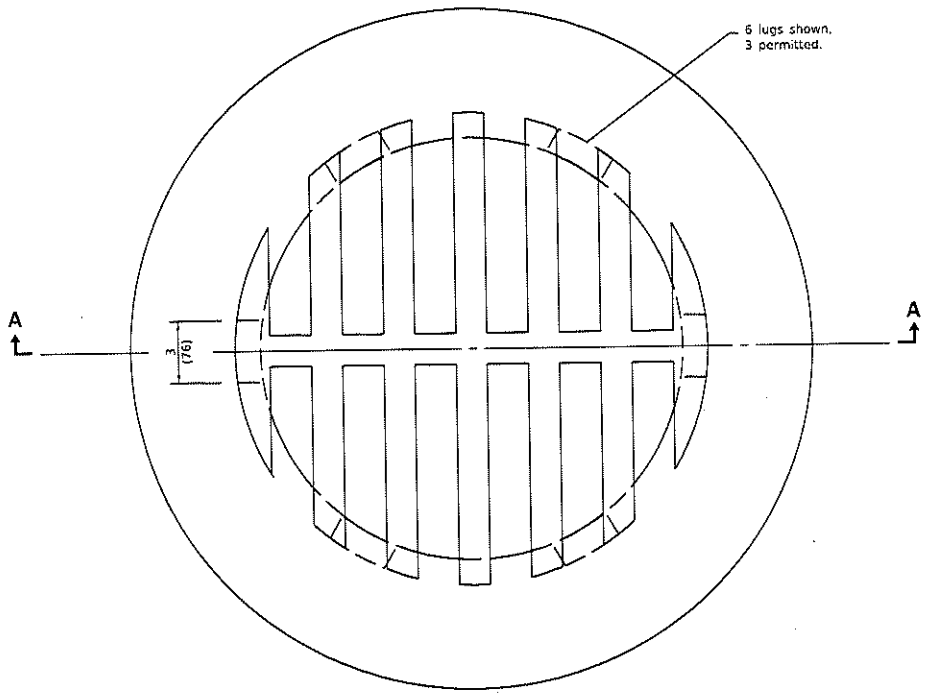
STANDARD 604001-05

Illinois Department of Transportation

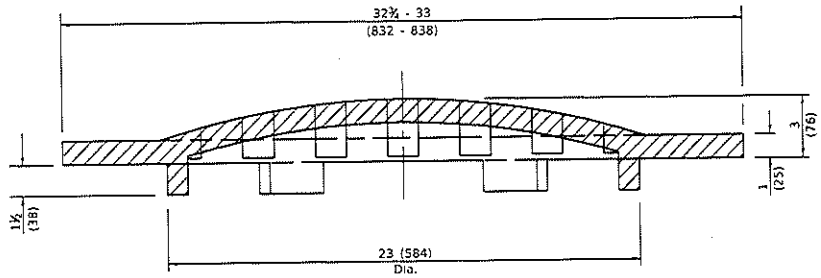
PASSED January 1, 2020
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2020
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



CAST GRATE



SECTION A-A

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-15	Revised dimensions.
1-1-09	Switched units to
	English (metric).

GRATE TYPE 8

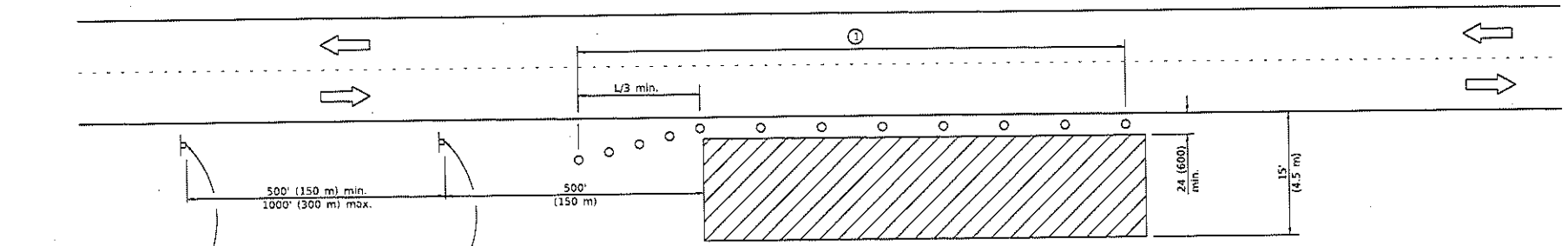
STANDARD 604036-03

Illinois Department of Transportation

PASSED January 1, 2015
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 11 97



For contract construction projects

W20-I103(0)-48

W21-1(0)-48

For maintenance and utility projects

W20-1(0)-48

TYPICAL APPLICATIONS

Utility operations
Culvert extensions
Side slope changes
Guardrail installation and maintenance
Delineator installation
Landscaping operations
Shoulder repair
Sign installation and maintenance

SYMBOLS

Work area

Sign

Cone, drum or barricade

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

GENERAL NOTES

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24 (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS English	(Metric)
40 mph (70 km/h) or less:	$L=\frac{WS^2}{60}$	$L=\frac{WS^2}{150}$
45 mph (80 km/h) or greater:	L=(W)(S)	L=0.65(W)(S)

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1 2014
ENGINEER OF SAFETY ENGINEERING

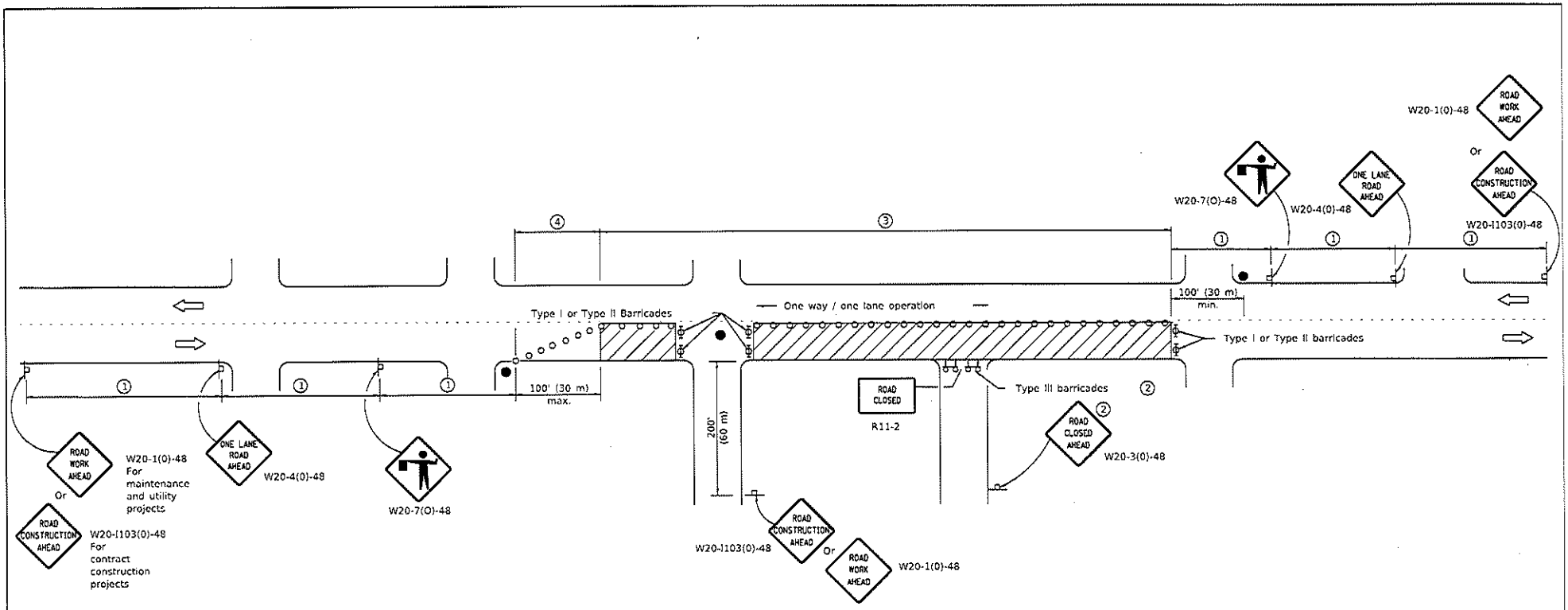
APPROVED January 1 2014
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-14	Revised workers sign
	number to agree with
	current MUTCD.
1-1-13	Omitted text 'WORKERS'
	sign.

OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

STANDARD 701006-05



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

SYMBOLS

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

(1) Refer to SIGN SPACING TABLE for distances.

(2) For approved sideroad closures.

(3) Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.

(4) Cones, drums or barricades at 20' (6 m) centers.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2011
ENGINEER OF SAFETY ENGINEERING

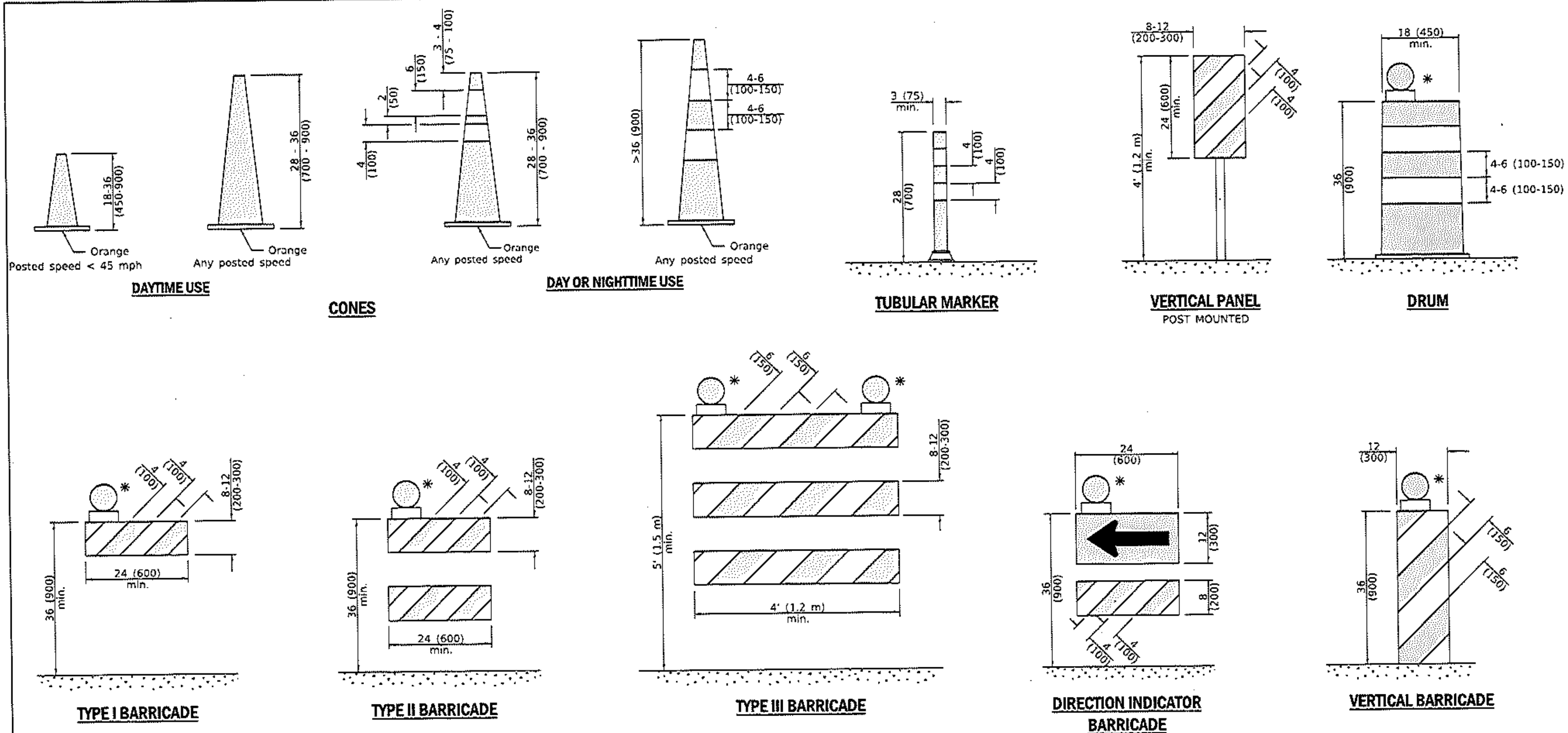
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

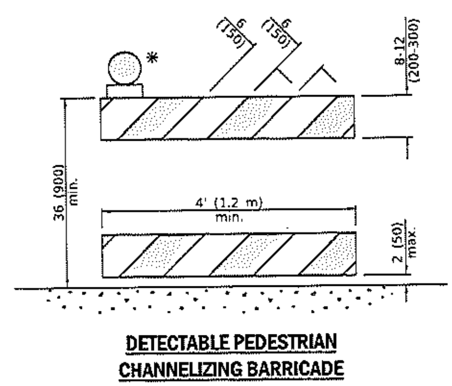
ISSUED 11-97

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to
	English (metric).
	Corrected sign No.'s.

URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

STANDARD 701501-06





* Warning lights (if required)

GENERAL NOTES

All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Revised cone usage and added cones >36" (900 m) height.
1-1-18	Revised END WORK ZONE SPEED LIMIT sign from orange to white background.

TRAFFIC CONTROL DEVICES

(Sheet 1 of 3)

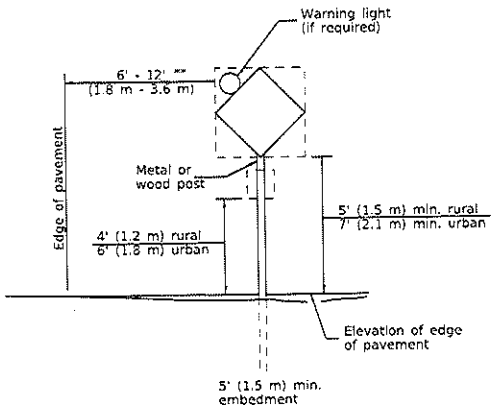
STANDARD 701901-08

Illinois Department of Transportation

APPROVED January 1, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

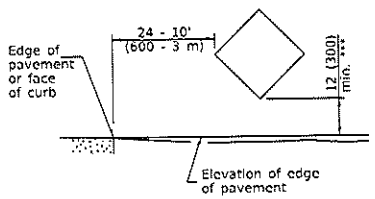
APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13



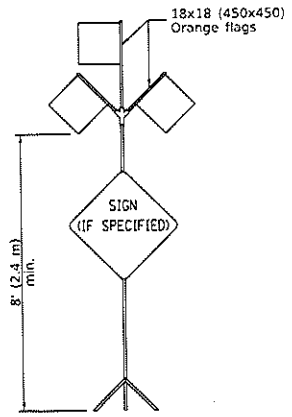
POST MOUNTED SIGNS

** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.

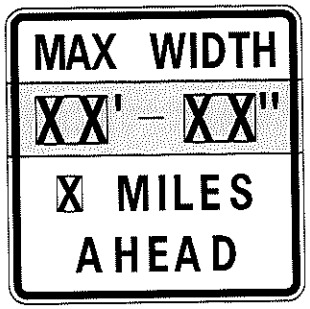


SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



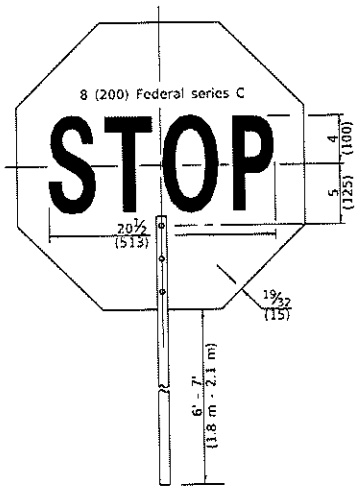
HIGH LEVEL WARNING DEVICE



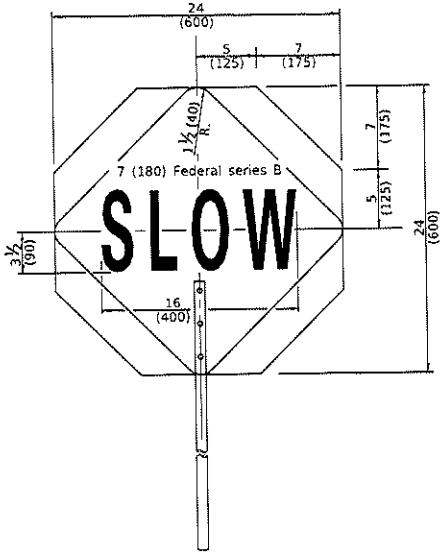
W12-I103-4848

WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.



FRONT SIDE



REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN

ROAD CONSTRUCTION NEXT X MILES

G20-I104(0)-6036

END CONSTRUCTION

G20-I105(0)-6024

This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING

WORK ZONE
SPEED LIMIT
XX
PHOTO ENFORCED

W21-I115(0)-3618

R2-1-3648

R10-I108p-3618 ****

$XXX FINE MINIMUM

R2-I106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.

END WORK ZONE SPEED LIMIT

G20-I103-6036

This sign shall be used when the above sign assembly is used.

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R10-I108p shall only be used along roadways under the juristiction of the State.

Illinois Department of Transportation

APPROVED January 3, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

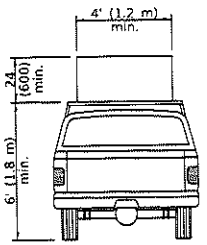
APPROVED January 3, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-19

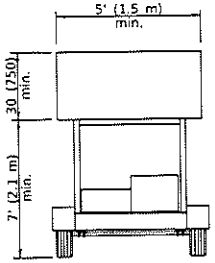
TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

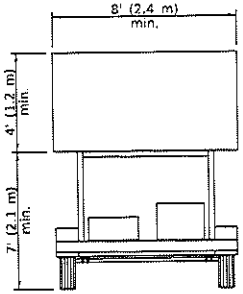
STANDARD 701901-08



TYPE A
ROOF
MOUNTED

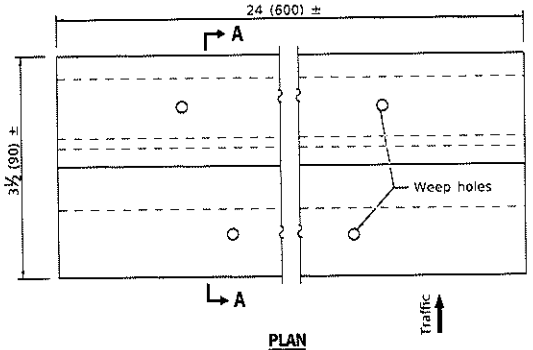


TYPE B
ROOF OR TRAILER
MOUNTED

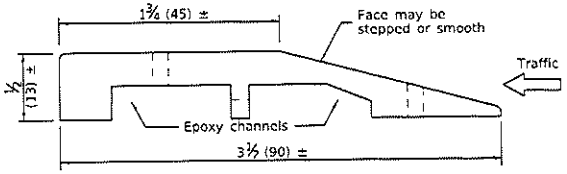


TYPE C
TRAILER
MOUNTED

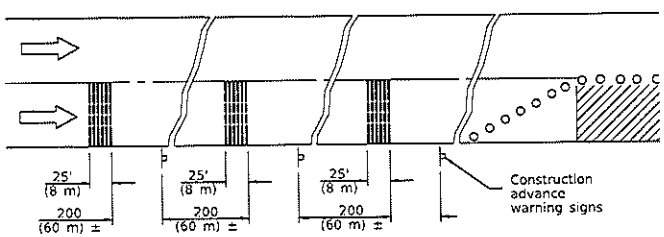
ARROW BOARDS

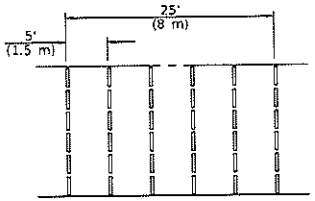


PLAN



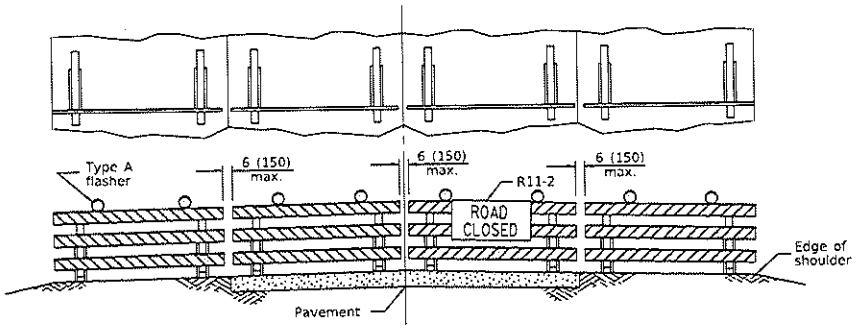
SECTION A-A





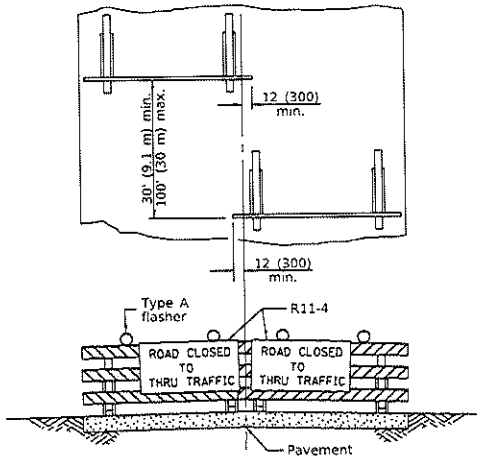
TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC

Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



ROAD CLOSED TO THRU TRAFFIC

Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

TYPICAL APPLICATIONS OF
TYPE III BARRICADES CLOSING A ROAD

Illinois Department of Transportation

APPROVED January 1, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-19

TRAFFIC CONTROL DEVICES

(Sheet 3 of 3)

STANDARD 701901-08

Will County Prevailing Wage Rates posted on 7/15/2019

Trade Title	Rg	Type	C	Base	Foreman	Overtime M-F	Sa	Su	Hol	H/W	Pension	Vac	Trng	Other Ins
ASBESTOS ABT-GEN	All	ALL		43.72	44.72	1.5	1.5	2.0	2.0	14.99	13.61	0.00	0.90	
ASBESTOS ABT-MEC	All	BLD		37.88	40.38	1.5	1.5	2.0	2.0	13.42	12.20	0.00	0.72	
BOILERMAKER	All	BLD		50.51	55.05	2.0	2.0	2.0	2.0	6.97	14.65	0.00	1.10	
BRICK MASON	All	BLD		46.88	51.57	1.5	1.5	2.0	2.0	10.85	19.31	0.00	0.95	
CARPENTER	All	ALL		48.55	53.41	2.0	2.0	2.0	2.0	11.79	24.17	0.00	0.73	
CEMENT MASON	All	ALL		43.00	45.00	2.0	1.5	2.0	2.0	10.65	26.92	0.00	0.50	
CERAMIC TILE FINISHER	All	BLD		40.56	40.56	1.5	1.5	2.0	2.0	11.00	12.80	0.00	0.86	
COMMUNICATION TECHNICIAN	All	BLD		37.00	40.70	1.5	1.5	2.0	2.0	15.54	13.87	0.00	0.72	1.75
ELECTRIC PWR EQMT OP	All	ALL		53.40	58.40	1.5	1.5	2.0	2.0	12.36	17.72	0.00	3.39	
ELECTRIC PWR GRNDMAN	All	ALL		41.65	58.40	1.5	1.5	2.0	2.0	9.64	13.82	0.00	2.65	
ELECTRIC PWR LINEMAN	All	ALL		53.40	58.40	1.5	1.5	2.0	2.0	12.36	17.72	0.00	3.39	
ELECTRICIAN	All	BLD		45.50	49.60	1.5	1.5	2.0	2.0	16.09	18.52	0.00	1.20	4.10
ELEVATOR CONSTRUCTOR	All	BLD		56.61	63.69	2.0	2.0	2.0	2.0	15.58	17.51	4.53	0.62	
GLAZIER	All	BLD		44.85	46.35	1.5	2.0	2.0	2.0	14.49	22.29	0.00	0.94	
HEAT/FROST INSULATOR	All	BLD		50.50	53.00	1.5	1.5	2.0	2.0	13.42	13.66	0.00	0.72	
IRON WORKER	All	ALL		44.00	48.40	2.0	2.0	2.0	2.0	11.96	26.44	0.00	0.85	
LABORER	All	ALL		43.72	44.47	1.5	1.5	2.0	2.0	14.99	13.61	0.00	0.90	
LATHER	All	ALL		48.55	53.41	2.0	2.0	2.0	2.0	11.79	24.17	0.00	0.73	
MACHINIST	All	BLD		48.93	51.43	1.5	1.5	2.0	2.0	7.68	8.95	1.85	1.32	
MARBLE FINISHER	All	ALL		35.15	48.33	1.5	1.5	2.0	2.0	10.85	17.66	0.00	0.52	
MARBLE MASON	All	BLD		46.03	50.63	1.5	1.5	2.0	2.0	10.85	18.78	0.00	0.64	
MATERIAL TESTER I	All	ALL		33.72		1.5	1.5	2.0	2.0	14.99	13.61	0.00	0.90	
MATERIALS TESTER II	All	ALL		38.72		1.5	1.5	2.0	2.0	14.99	13.61	0.00	0.90	
MILLWRIGHT	All	ALL		48.55	53.41	2.0	2.0	2.0	2.0	11.79	24.17	0.00	0.73	
OPERATING ENGINEER	All	BLD	1	51.10	55.10	2.0	2.0	2.0	2.0	20.50	16.85	2.00	1.65	
OPERATING ENGINEER	All	BLD	2	49.80	55.10	2.0	2.0	2.0	2.0	20.50	16.85	2.00	1.65	
OPERATING ENGINEER	All	BLD	3	47.25	55.10	2.0	2.0	2.0	2.0	20.50	16.85	2.00	1.65	
OPERATING ENGINEER	All	BLD	4	45.50	55.10	2.0	2.0	2.0	2.0	20.50	16.85	2.00	1.65	
OPERATING ENGINEER	All	BLD	5	54.85	55.10	2.0	2.0	2.0	2.0	20.50	16.85	2.00	1.65	
OPERATING ENGINEER	All	BLD	6	52.10	55.10	2.0	2.0	2.0	2.0	20.50	16.85	2.00	1.65	
OPERATING ENGINEER	All	BLD	7	54.10	55.10	2.0	2.0	2.0	2.0	20.50	16.85	2.00	1.65	

OPERATING ENGINEER	All	FLT	1	58.20	58.20	1.5	1.5	2.0	2.0	19.65	15.10	2.00	1.40	
OPERATING ENGINEER	All	FLT	2	56.70	58.20	1.5	1.5	2.0	2.0	19.65	15.10	2.00	1.40	
OPERATING ENGINEER	All	FLT	3	50.45	58.20	1.5	1.5	2.0	2.0	19.65	15.10	2.00	1.40	
OPERATING ENGINEER	All	FLT	4	41.95	58.20	1.5	1.5	2.0	2.0	19.65	15.10	2.00	1.40	
OPERATING ENGINEER	All	FLT	5	59.70	58.20	1.5	1.5	2.0	2.0	19.65	15.10	2.00	1.40	
OPERATING ENGINEER	All	FLT	6	38.00	58.20	1.5	1.5	2.0	2.0	19.65	15.10	2.00	1.40	
OPERATING ENGINEER	All	HWY	1	49.30	53.30	1.5	1.5	2.0	2.0	20.50	16.85	2.00	1.65	
OPERATING ENGINEER	All	HWY	2	48.75	53.30	1.5	1.5	2.0	2.0	20.50	16.85	2.00	1.65	
OPERATING ENGINEER	All	HWY	3	46.70	53.30	1.5	1.5	2.0	2.0	20.50	16.85	2.00	1.65	
OPERATING ENGINEER	All	HWY	4	45.30	53.30	1.5	1.5	2.0	2.0	20.50	16.85	2.00	1.65	
OPERATING ENGINEER	All	HWY	5	44.10	53.30	1.5	1.5	2.0	2.0	20.50	16.85	2.00	1.65	
OPERATING ENGINEER	All	HWY	6	52.30	53.30	1.5	1.5	2.0	2.0	20.50	16.85	2.00	1.65	
OPERATING ENGINEER	All	HWY	7	50.30	53.30	1.5	1.5	2.0	2.0	20.50	16.85	2.00	1.65	
PAINTER	All	ALL		47.30	53.21	1.5	1.5	1.5	2.0	12.01	12.74	0.00	1.87	
PAINTER - SIGNS	All	BLD		39.06	43.86	1.5	1.5	2.0	2.0	2.67	3.32	0.00	0.00	
PILEDRIVER	All	ALL		48.55	53.41	2.0	2.0	2.0	2.0	11.79	24.17	0.00	0.73	
PIPEFITTER	All	BLD		49.60	52.60	1.5	1.5	2.0	2.0	10.75	19.85	0.00	2.67	
PLASTERER	All	BLD		44.50	47.17	1.5	1.5	2.0	2.0	14.50	17.29	0.00	1.50	
PLUMBER	All	BLD		51.00	54.05	1.5	1.5	2.0	2.0	15.37	14.75	0.00	1.35	
ROOFER	All	BLD		44.60	48.60	1.5	1.5	2.0	2.0	10.38	12.74	0.00	0.58	
SHEETMETAL WORKER	All	BLD		48.87	51.31	1.5	1.5	2.0	2.0	10.78	17.51	0.00	0.93	2.31
SPRINKLER FITTER	All	BLD		50.15	52.65	1.5	1.5	2.0	2.0	13.50	16.60	0.00	0.65	
STONE MASON	All	BLD		46.88	51.57	1.5	1.5	2.0	2.0	10.85	19.31	0.00	0.95	
TERRAZZO FINISHER	All	BLD		42.54	42.54	1.5	1.5	2.0	2.0	11.00	14.64	0.00	0.88	
TERRAZZO MASON	All	BLD		46.38	49.88	1.5	1.5	2.0	2.0	11.00	16.09	0.00	0.93	
TILE MASON	All	BLD		47.50	51.50	1.5	1.5	2.0	2.0	11.00	16.06	0.00	0.93	
TRAFFIC SAFETY WORKER	All	HWY		37.75	39.35	1.5	1.5	2.0	2.0	9.30	9.87	0.00	0.30	
TRUCK DRIVER	All	ALL	1	38.41	38.96	1.5	1.5	2.0	2.0	9.15	10.43	0.00	0.15	
TRUCK DRIVER	All	ALL	2	38.56	38.96	1.5	1.5	2.0	2.0	9.15	10.43	0.00	0.15	
TRUCK DRIVER	All	ALL	3	38.76	38.96	1.5	1.5	2.0	2.0	9.15	10.43	0.00	0.15	
TRUCK DRIVER	All	ALL	4	38.96	38.96	1.5	1.5	2.0	2.0	9.15	10.43	0.00	0.15	
TUCKPOINTER	All	BLD		46.50	47.50	1.5	1.5	2.0	2.0	8.34	18.40	0.00	0.93	

Legend

Rg Region

Type Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers

C Class
Base Base Wage Rate
OT M-F Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.
OT Sa Overtime pay required for every hour worked on Saturdays
OT Su Overtime pay required for every hour worked on Sundays
OT Hol Overtime pay required for every hour worked on Holidays
H/W Health/Welfare benefit
Vac Vacation
Trng Training
Other Ins Employer hourly cost for any other type(s) of insurance provided for benefit of worker.

Explanations WILL COUNTY

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER

The grouting, cleaning, and polishing of all classes of tile, whether for interior or exterior purposes, all burned, glazed or unglazed products; all composition materials, granite tiles, warning detectable tiles, cement tiles, epoxy composite materials, pavers, glass, mosaics, fiberglass, and all substitute materials, for tile made in tile-like units; all mixtures in tile like form of cement, metals, and other materials that are for and intended for use as a finished floor surface, stair treads, promenade roofs, walks, walls, ceilings, swimming pools, and all other places where tile is to form a finished interior or exterior. The mixing of all setting mortars including but not limited to thin-set mortars, epoxies, wall mud, and any other sand and cement mixtures or adhesives when used in the preparation, installation, repair, or maintenance of tile and/or similar materials. The handling and unloading of all sand, cement, lime, tile, fixtures, equipment, adhesives, or any other materials to be used in the preparation, installation, repair, or maintenance of tile and/or similar materials. Ceramic Tile Finishers shall fill all joints and voids regardless of method on all tile work, particularly and especially after installation of said tile work. Application of any and all protective coverings to all types of tile installations including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment used in preparing floors to receive tile. The clean up and removal of all waste and materials. All demolition of existing tile floors and walls to be re-tiled.

COMMUNICATIONS TECHNICIAN

Installation, operation, inspection, maintenance, repair and service of radio, television, recording, voice, sound and vision production and reproduction, telephone and telephone interconnect, facsimile, equipment and appliances used for domestic, commercial, educational and entertainment purposes, pulling of wire through conduit but not the installation of conduit.

MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be needed for the installation of such materials, building of scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for preparation of material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up of sand to cement for the installation of material and such other work as may be required in helping a Marble Setter in the handling of all material in the erection or installation of interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone any foreign or domestic materials as are specified and used in building interiors and exteriors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, risers treads, base, or any other materials that may be used as substitutes for any of the aforementioned materials and which are used on interior and exterior which are installed in a similar manner.

MATERIAL TESTER I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEER - BUILDING

Class 1. Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Conveyor (Truck Mounted); Concrete Paver Over 27E cu. ft; Concrete Paver 27E cu. ft. and Under: Concrete Placer; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes, All; Cranes, Hammerhead; Cranes, (GCI and similar Type); Creter Crane; Spider Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Heavy Duty Self-Propelled Transporter or Prime Mover; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and similar machines; Hoists, One, Two and Three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment); Locomotives, All; Motor Patrol; Lubrication Technician; Manipulators; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes: Squeeze Cretes-Screw Type Pumps; Gypsum Bulker and Pump; Raised and Blind Hole Drill; Roto Mill Grinder; Scoops - Tractor Drawn; Slip-Form Paver; Straddle Buggies; Operation of Tie Back Machine; Tournapull; Tractor with Boom and Side Boom; Trenching Machines.

Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Screed; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

Class 3. Air Compressor; Combination Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators (remodeling or renovation work); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Low Boys; Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 4. Bobcats and/or other Skid Steer Loaders; Oilers; and Brick Forklift.

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other similar type machines: ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower Cranes of all types: Creter Crane: Spider Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Dredges; Elevators, Outside type Rack & Pinion and Similar Machines; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Heavy Duty Self-Propelled Transporter or Prime Mover; Hydraulic Backhoes; Backhoes with shear attachments up to 40' of boom reach; Lubrication Technician; Manipulators; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Operation of Tieback Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Traffic Barrier Transfer Machine; Trenching; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole Drills (Tunnel Shaft); Underground Boring and/or Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Boring and/or Mining Machines under 5 ft. in diameter; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-Hole Digger; Power Saw, Concrete Power Driven; Pug Mills; Rollers, other than Asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper-Form-Motor Driven.

Class 4. Air Compressor; Combination - Small Equipment Operator; Directional Boring Machine; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Vacuum Trucks (excluding hose work); Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. SkidSteer Loader (all); Brick Forklifts; Oilers.

Class 6. Field Mechanics and Field Welders

Class 7. Dowell Machine with Air Compressor; Gradall and machines of like nature.

OPERATING ENGINEER - FLOATING

Class 1. Craft Foreman; Master Mechanic; Diver/Wet Tender; Engineer; Engineer (Hydraulic Dredge).

Class 2. Crane/Backhoe Operator; Boat Operator with towing endorsement; Mechanic/Welder; Assistant Engineer (Hydraulic Dredge); Leverman (Hydraulic Dredge); Diver Tender.

Class 3. Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more); Tug/Launch Operator; Loader/Dozer and like equipment on Barge, Breakwater Wall, Slip/Dock, or Scow, Deck Machinery, etc.

Class 4. Deck Equipment Operator, Machineryman/Fireman (4 Equipment Units or More); Off Road Trucks; Deck Hand, Tug Engineer, Crane Maintenance (50 Ton Capacity and Under) or Backhoe Weighing (115,000 pounds or less); Assistant Tug Operator.

Class 5. Friction or Lattice Boom Cranes.

Class 6. ROV Pilot, ROV Tender

TRAFFIC SAFETY - Effective November 30, 2018, the description of the traffic safety worker trade in this County is as follows: Work associated with barricades, horses and drums used to reduce lane usage on highway work, the installation and removal of temporary, non-temporary or permanent lane, pavement or roadway markings, and the installation and removal of temporary road signs.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled Dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

Class 2. Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers when pulling other than self-loading equipment or similar equipment under 16 cubic yards; Mixer Trucks under 7 yeards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.

Class 3. Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnatrailers or turnapulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

Class 4. Six axle trucks; Dual-purpose vehicles, such as mounted crane trucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front.

TERRAZZO FINISHER

The handling of sand, cement, marble chips, and all other materials that may be used by the Mosaic Terrazzo Mechanic, and the mixing, grinding, grouting, cleaning and sealing of all Marble, Mosaic, and Terrazzo work, floors, base, stairs, and wainscoting by hand or machine, and in addition, assisting and aiding Marble, Masonic, and Terrazzo Mechanics.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

Notwithstanding the difference in the classification title, the classification entitled "Material Tester I" involves the same job duties as the classification entitled "Material Tester/Inspector I". Likewise, the classification entitled "Material Tester II" involves the same job duties as the classification entitled "Material Tester/Inspector II".