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CONSTRUCTION PLANS FOR

WILLOW AVENUE WEST STREET TO WHEATON AVENUE UTILITY IMPROVEMENTS

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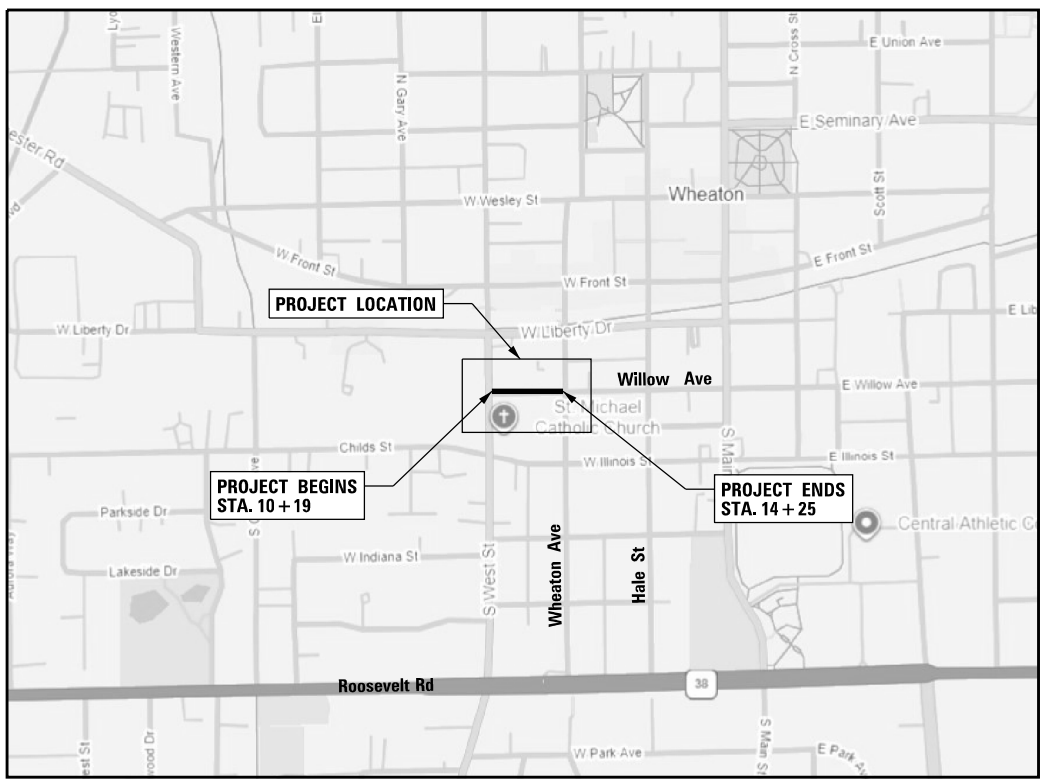
LIST OF DISTRICT ONE DETAILS:

BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
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TC-13	TYPICAL PAVEMENT MARKINGS

LIST OF STATE STANDARDS:

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701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS- DAY ONLY
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIUM
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIUM
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS

FOR THE
CITY OF WHEATON
DuPAGE COUNTY, ILLINOIS



LOCATION MAP

LENGTH OF PROJECT TOTAL= 430 FEET (0.08 MILES)



SIGNED: _____
DONALD KINZLER, P.E., CFM

DATE: _____
IL REGISTRATION NUMBER: 062-063193
EXPIRES: 11/30/2027

CITY OF WHEATON

SUBMITTED: _____, 20____

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

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GENERAL NOTES:

1. ALL EXCESS MATERIAL (BROKEN CONCRETE, ASPHALT, CULVERT PIPE, WASTE ROADWAY EXCAVATION, AND SURPLUS MATERIALS FROM UTILITY TRENCHES) SHALL BE WASTED OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMPING SITES. HE/SHE SHALL PROVIDE A LIST OF THESE SITES TO THE ENGINEER FOR HIS/HER EXAMINATION AND GENERAL INFORMATION.

4. ALL PROPERTY AND SURFACE STRUCTURES WITHIN THE RIGHT-OF-WAY SHALL BE PROTECTED DURING CONSTRUCTION OPERATIONS UNLESS THE ENGINEER DIRECTS REMOVAL FOR PURPOSES RELATED TO CONSTRUCTION UNDER THIS CONTRACT. ANY FENCES, POLES, FLAGSTONE, DECORATIVE STONE, SPECIAL LANDSCAPING, OR OTHER MAN MADE SURFACE IMPROVEMENT WHICH IS REMOVED OR DISTURBED BY THE CONTRACTOR SHALL BE RESTORED BY HIM TO ITS ORIGINAL CONDITION AFTER THE CONSTRUCTION ACTIVITIES ARE COMPLETED. ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM THIS WORK SHALL BE INCLUDED IN THE CONTRACT.

5. ALL FRAMES, GRATES, LIDS, FIRE HYDRANTS, AND VALVE BOXES WHICH ARE REMOVED AND ARE TO BE ABANDONED SHALL REMAIN THE PROPERTY OF THE CITY OF WHEATON. ANY OF THESE ITEMS WHICH ARE DAMAGED BY THE CONTRACTOR DURING HANDLING SHALL BE REPLACED BY HIM AT HIS EXPENSE. NO ADDITIONAL COMPENSATION SHALL BE GIVEN FOR SALVAGING THESE ITEMS. UPON REMOVAL FROM THEIR WORKING LOCATIONS, THEY ARE TO BE STOCKPILED AT AN ON-SITE LOCATION DETERMINED BY THE ENGINEER WHERE THEY WILL BE PICKED UP BY CITY PERSONNEL AT THE CONCLUSION OF WORK ON THAT STREET.

6. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE AND PUBLIC DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO ACCEPT ALL STORM WATER THAT WILL BE DELIVERED BY THESE DRAINS AND BASINS AND SHALL DISCHARGE THE SAME. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT AND TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF WATER WHICH IS RECEIVED FROM ALL TEMPORARY CONNECTIONS. THESE TEMPORARY FACILITIES SHALL BE MAINTAINED UNTIL ALL PERMANENT CONNECTIONS ARE COMPLETED.

7. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE FOLLOWED WHEN EXISTING CURB AND GUTTER IS REMOVED AND EXISTING DRAINAGE STRUCTURES ARE TO REMAIN ACTIVE. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DETAIL PROVIDED IN THE CONTRACT DOCUMENTS. ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THIS WORK SHALL BE INCLUDED IN THE CONTRACT LINE ITEM COMBINATION CURB AND GUTTER REMOVAL.

8. THE ENGINEER SHALL MARK THE AREAS TO BE MILLED IN THE FIELD.

9. PAVEMENT SAW CUTTING FOR ITEMS TO BE REMOVED ON THE PLANS, AS SPECIFIED IN SECTION 440 OF THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER, SHALL BE INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.

10. THE THICKNESS OF THE HMA SHOWN ON THE PLANS IS NOMINAL. DEVIATIONS MAY OCCUR IN THE FIELD DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE UPON WHICH THE HMA IS BEING PLACED.

11. THE ENGINEER SHALL DETERMINE THE LIMITS FOR REPLACEMENT FOR EACH DRIVEWAY BASED ON DRAINAGE AND AESTHETIC CONSIDERATIONS, NOT PAVEMENT CONDITION. ALL SAWCUTTING SHALL BE INCLUDED IN THE REMOVAL OF THE PAVEMENT.

12. THE LOCATIONS AND ELEVATIONS OF THE VARIOUS UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL EXERCISE CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR UTILITIES TO PREVENT DAMAGE. THE FAILURE OF A UTILITY COMPANY TO ACCURATELY LOCATE THEIR UTILITY DOES NOT FREE THE CONTRACTOR FROM RESPONSIBILITY. THE MAJOR CONCERN OF THE CITY OF WHEATON IS PUBLIC SAFETY.

13. THE CONTRACTOR SHALL COOPERATE WITH THE CITY IN ANY UNDERGROUND UTILITY CONSTRUCTION WHICH THE CITY MAY WANT TO PERFORM DURING THE CONTRACTOR'S OPERATIONS.

14. THE CONTRACTOR SHALL HAVE LINE AND/OR FORMS SET A MINIMUM OF FOUR WORKING HOURS PRIOR TO THE SCHEDULED ARRIVAL OF CONCRETE ON SITE FOR THE PLACEMENT OF CURB AND GUTTER, DRIVEWAYS, AND SIDEWALK TO ALLOW THE ENGINEER TIME TO CHECK LINE AND GRADE.

15. TRANSITION CURB AND GUTTER FROM THE PROPOSED COMBINATION CONCRETE CURB AND GUTTER SHALL BE PAID FOR AS COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE BEING INSTALLED AS PART OF THIS CONTRACT.

16. ALL RADII FOR PROPOSED COMBINATION CONCRETE CURB AND GUTTER SHALL BE PLACED AT THE EXISTING DIMENSION UNLESS OTHERWISE INDICATED ON THE PROJECT PLANS OR AS DIRECTED BY THE ENGINEER. ELEVATIONS SHOWN AT POINT ON THE CURB INDICATED FLOW LINE ELEVATIONS UNLESS NOTED OTHERWISE.

17. AGGREGATE BASE COURSE PLACED UNDER THE PROPOSED CURB AND GUTTER SHALL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF THE COMBINATION CURB AND GUTTER. THE QUANTITY OF THIS AGGREGATE SHALL BE OF A DEPTH SUFFICIENT TO BRING THE CURB AND GUTTER TO THE PROPOSED GRADE. ALL GUTTER FLAG SHALL BE A MINIMUM OF NINE INCHES THICK, UNLESS INDICATED OTHERWISE.


















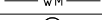
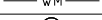







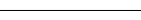
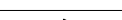
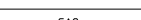
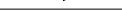






18. ALL CONSTRUCTION PERSONNEL SHALL BE REQUIRED TO WEAR A FLUORESCENT YELLOW / GREEN SAFETY VEST AT ALL TIMES WHILE ON THE CONSTRUCTION SITE. THIS REQUIREMENT SHALL BE INCLUDED IN THE CONTRACT.

GENERAL NOTES - SEWERS:

1. ALL SANITARY SEWER SHALL BE POLYVINYL CHLORIDE WATER-QUALITY PIPE CONFORMING TO SDR-26 (STANDARD DIMENSION RATIO), UNLESS NOTED OTHERWISE.
2. ALL STORM SEWER SHALL BE EITHER REINFORCED CONCRETE CULVERT PIPE, OR POLYVINYL CHLORIDE (PVC) PIPE WITH AN SDR RATING OF 26, AS SPECIFIED IN THE PROJECT PLANS AND SPECIFICATIONS.
3. EXISTING SANITARY SERVICES SHALL REMAIN ACTIVE UNTIL CONNECTED TO PR. SANITARY SEWER, 8".

SANITARY SEWER INSTALLATION

1. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS FOR CONSTRUCTION OF SANITARY SEWER PIPE AND ALL ASSOCIATED SANITARY SEWER WORK AND BYPASS OF FLOWS.
2. MEANS AND METHODS TO COMPLETE THIS WORK SHALL REQUIRE REVIEW AND APPROVAL BY THE ENGINEER AND CITY.
3. EXISTING SERVICES SHALL REMAIN ACTIVE UNTIL CONNECTED TO PR. SANITARY SEWER.
4. LANE CLOSURES OF WEST STREET AND WHEATON AVENUE ARE LIMITED TO THE DURATION OF OF SINGLE-DAY WORK HOURS WITH THE CONTRACTOR PRESENT.

LEGEND	EXISTING	PROPOSED
MAIL BOX		
HANDHOLD		
EVERGREEN TREE		
DECIDUOUS TREE		
BUSH		
PAVEMENT BUTT JOINT		
CONCRETE DRIVEWAY		
ASPHALT DRIVEWAY		
DRIVEWAY / SIDEWALK REMOVAL		
POWER POLE		
TELEPHONE BOX		
B-BOX		
FIRE HYDRANT		
VALVE		
VALVE VAULT		
ABANDON VALVE VAULT		
WATER MAIN		
MANHOLE		
ABANDON MANHOLE		
CATCH BASIN		
INLET		
STORM SEWER LINE		
SANITARY SEWER LINE		
GAS MAIN		
INDICATES STORM MANHOLE		
INDICATES SANITARY MANHOLE		
INDICATES STORM SEWER STRUCTURE		
INDICATES VALVE TO BE ADJUSTED		
INDICATES TYPICAL CROSS SECTION LOCATION		

LIST OF ABBREVIATIONS

CB	CATCH BASIN	SF	SQUARE FEET
C&G	CURB & GUTTER	SY	SQUARE YARDS
DIA.	DIAMETER	T1FCL	TYPE 1 FRAME, CLOSED LID
FR	FRAME	T1FOL	TYPE 1 FRAME, OPEN LID
HMA	HOT-MIX ASPHALT	WM	WATER MAIN
INV.	INVERT	TBA	TO BE ADJUSTED
LF	LINEAL FEET	STM	STORM
MH	MANHOLE	SAN	SANITARY
P.C.C.	PORTLAND CEMENT CONCRETE	WQ	WATER QUALITY

NOTE: ALL BOXED IN NOTATIONS INDICATE INFORMATION PERTAINING TO WORK TO BE INCLUDED IN THE COST OF SPECIFIC CONTRACT LINE ITEMS.

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DATE

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12/29/25

N.T.S.



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2625 butterfield road
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CITY OF WHEATON
WILLOW AVENUE UTILITY IMPROVEMENT

GENERAL NOTES

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PAY ITEM	DESCRIPTION	UNIT	TOTAL QUANTITY
1	ONE YEAR GUARANTEE	L SUM	1
2	TRAFFIC CONTROL & PROTECTION	L SUM	1
3	CONSTRUCTION LAYOUT	L SUM	1
4	DUST CONTROL WATERING	UNIT	20
5	INLET FILTERS	EACH	6
6	CONCRETE TRUCK WASHOUT	EACH	1
7	TREE PROTECTION	EACH	5
8	TREE ROOT PRUNING	EACH	4
9	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	15
10	EXPLORATORY EXCAVATION	EACH	2
11	AGGREGATE FOR TEMPORARY ACCESS	TON	52
12	TEMPORARY PATCHING, 3"	SQ YD	492
13	HMA SURFACE REMOVAL, 3"	SQ YD	442
14	COMBINATION CURB AND GUTTER REMOVAL	FOOT	125
15	COMBINATION CURB AND GUTTER	FOOT	125
16	P.C.C. SIDEWALK, REMOVAL AND REPLACEMENT, 4", COMPLETE	SQ FT	200
17	DETECTABLE WARNINGS	SQ FT	8
18	WATER MAIN, DUCTILE IRON, CLASS 52, RESTRAINED JOINT, 12"	FOOT	390
19	POLYETHYLENE ENCASEMENT	FOOT	435
20	WATER VALVES WITH VALVE BOX, 4"	EACH	1
21	WATER VALVES WITH VALVE BOX, 6"	EACH	2
22	WATER VALVES WITH VALVE BOX, 12"	EACH	2
23	FIRE HYDRANTS W/ AUXILIARY VALVE AND VALVE BOX	EACH	1
24	FIELD LOK GASKETS FOR DUCTILE IRON WATER MAIN	EACH	10
25	CUT IN CONNECTION	EACH	2
26	WATER SERVICE LINE 4"	FOOT	15
27	WATER SERVICE LINE 6"	FOOT	30
28	CUT AND INSTALL END CAPS, 6"	EACH	5
29	CUT AND INSTALL END CAPS, 12"	EACH	5
30	ADJUST WATER MAIN, 6"	FOOT	10
31	ADJUST WATER MAIN, 12"	FOOT	20
32	SANITARY MANHOLE	EACH	1
33	SANITARY SEWERS, PVC, SDR-26, 8"	FOOT	418
34	CONNECT TO EXISTING SANITARY MANHOLE	EACH	2
35	SANITARY SERVICE LINE, 6"	FOOT	137
36	SANITARY SEWER REMOVAL, 8"	FOOT	418
37	CUT AND CAP SANITARY PIPE	EACH	10
38	STORM SEWER REMOVAL, 12"	FOOT	23
39	CATCH BASIN, 3' DIA, W/FR AND CL	EACH	1
40	STORM SEWER REMOVAL AND REPLACEMENT WITH WATER QUALITY PIPE, 6"	FOOT	10
41	STORM SEWER REMOVAL AND REPLACEMENT WITH WATER QUALITY PIPE, 8"	FOOT	10
42	STORM SEWER REMOVAL AND REPLACEMENT WITH WATER QUALITY PIPE, 10"	FOOT	8
43	STORM SEWER REMOVAL AND REPLACEMENT WITH WATER QUALITY PIPE, 12"	FOOT	43
44	STORM SEWER REMOVAL AND REPLACEMENT WITH WATER QUALITY PIPE, 15"	FOOT	42
45	STORM SEWER REMOVAL AND REPLACEMENT WITH WATER QUALITY PIPE, 27"	FOOT	30
46	INLETS TO BE RECONSTRUCTED	EACH	1
47	CONNECT TO EXISTING MANHOLE	EACH	1
48	TRENCH BACKFILL	CU YD	740
49	CLASS D PATCHING, TY I, 9"	SQ YD	10
50	CLASS D PATCHING, TY II, 9"	SQ YD	32
51	CLASS D PATCHING, TY III, 9"	SQ YD	30
52	CLASS D PATCHING, TY IV, 9"	SQ YD	180
53	HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 3"	TON	90
54	FIRE HYDRANTS TO BE REMOVED	EACH	1
55	VALVE BOX TO BE REMOVED	EACH	5
56	WATER VALVE AND BOX TO BE REMOVED, 6"	EACH	1
57	WATER VALVE AND BOX TO BE REMOVED, 12"	EACH	1
58	PCC DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	16
59	SODDING	SQ YD	100
60	SUPPLEMENTAL WATERING	UNIT	10
61	THERMOPLASTIC PAVEMENT MARKING- LINE 24"	FOOT	106
62	SPECIAL/NON-SPECIAL WASTE DISPOSAL	CU YD	20

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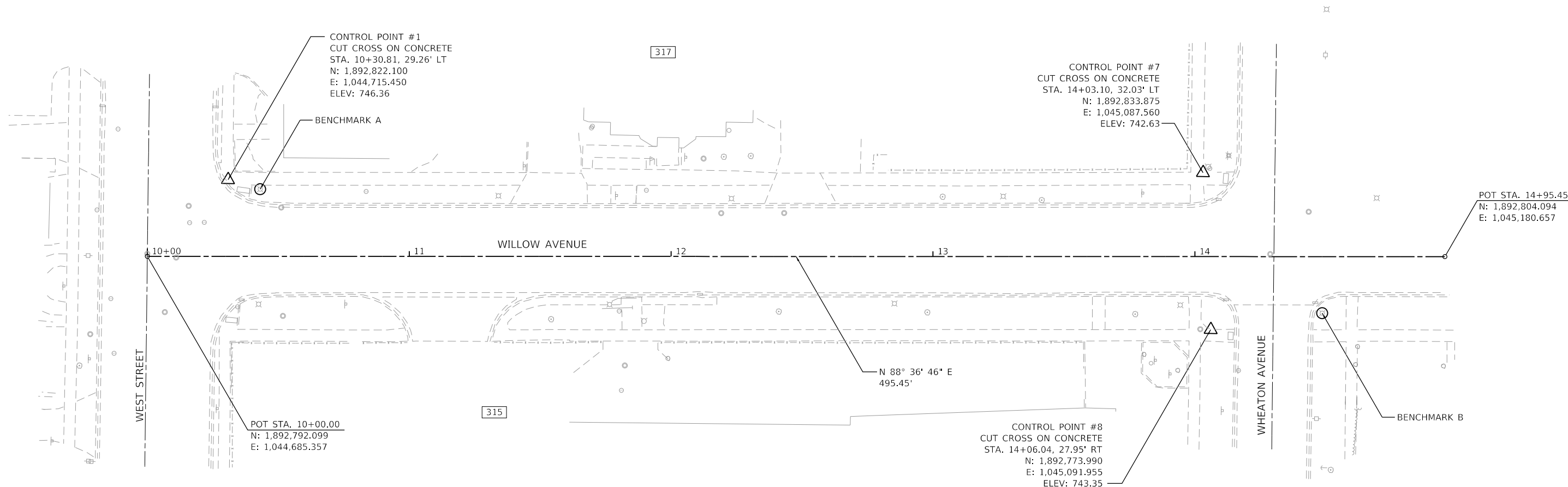
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CITY OF WHEATON
WILLOW AVENUE UTILITY IMPROVEMENT

SUMMARY OF QUANTITIES

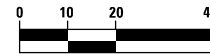
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BENCHMARKS

- A. CUT SQUARE ON SOUTH EDGE TOP OF CONCRETE LIGHT POLE FOUNDATION AT NORTHEAST CORNER OF WILLOW AVENUE AND WEST STREET. ELEV: 746.72
- B. CUT SQUARE ON NORTHWEST TOP OF CONCRETE LIGHT POLE FOUNDATION AT SOUTHEAST CORNER OF WILLOW AVENUE AND WHEATON AVENUE. ELEV: 743.50
- C. DUPAGE COUNTY MONUMENT AT NORTHEAST CORNER OF LIBERTY DRIVE AND CARLTON AVENUE ON RETAINING WALL FOR PARKING GARAGE (BM 0109). ELEV: 753.20



HORIZONTAL SCALE IN FEET

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1" = 20'



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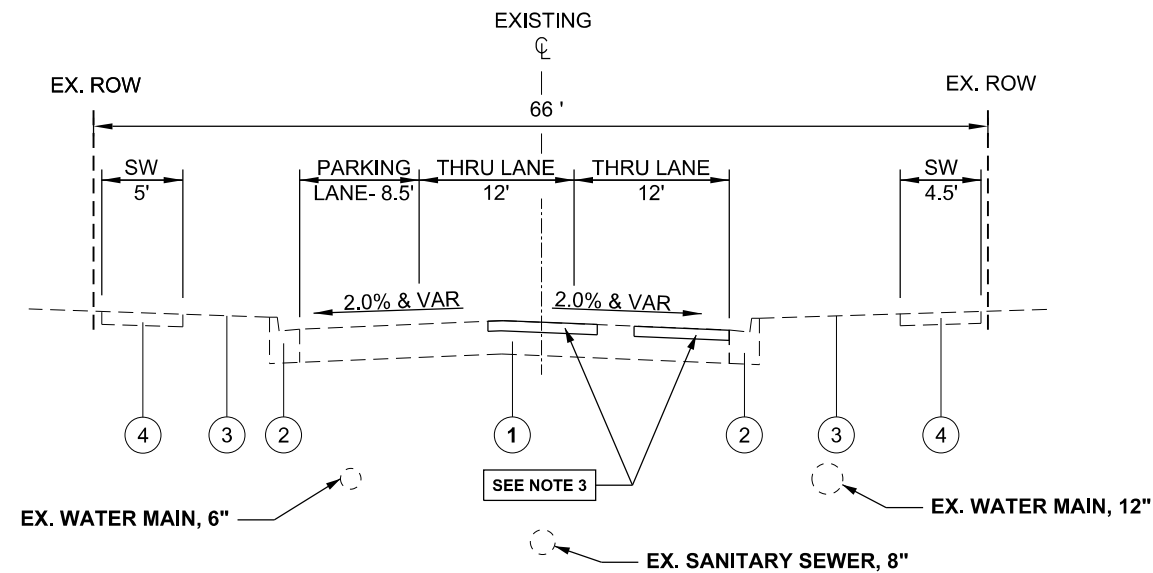
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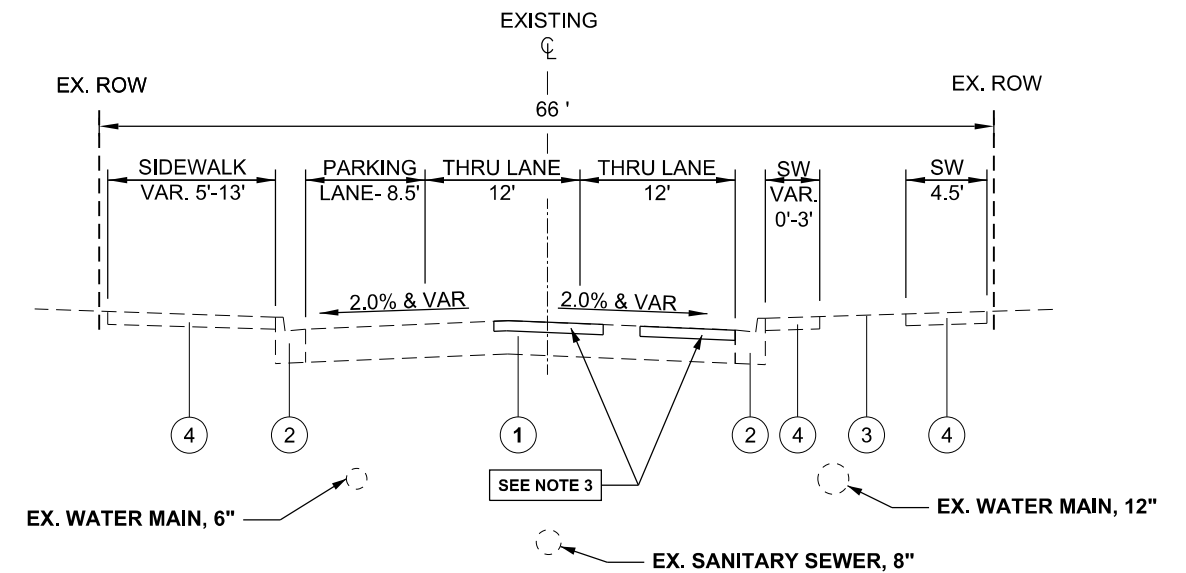
ALIGNMENT, BENCHMARKS,
AND CONTROL POINTS

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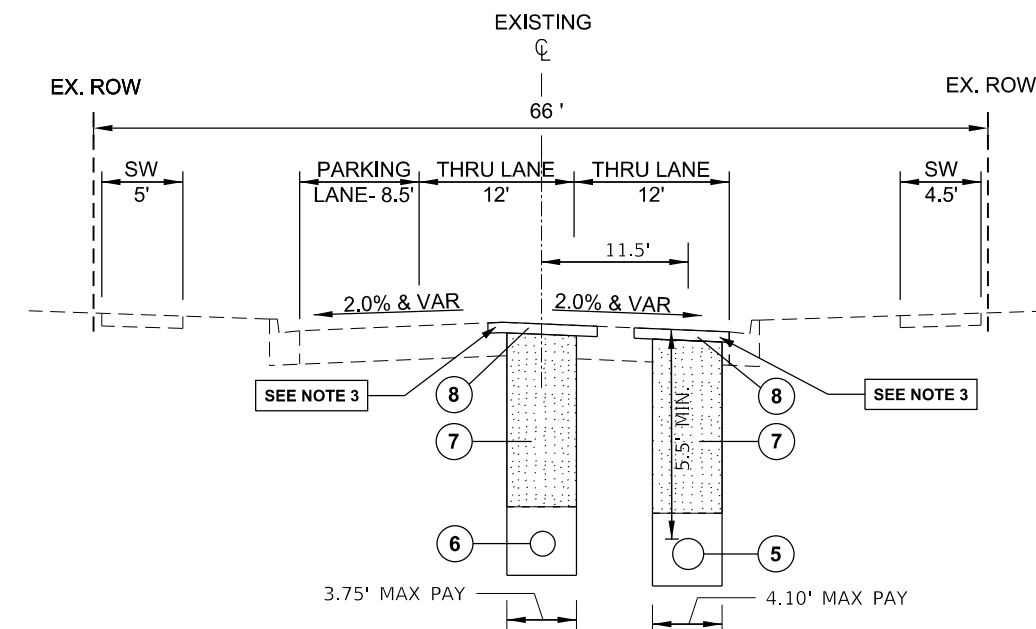
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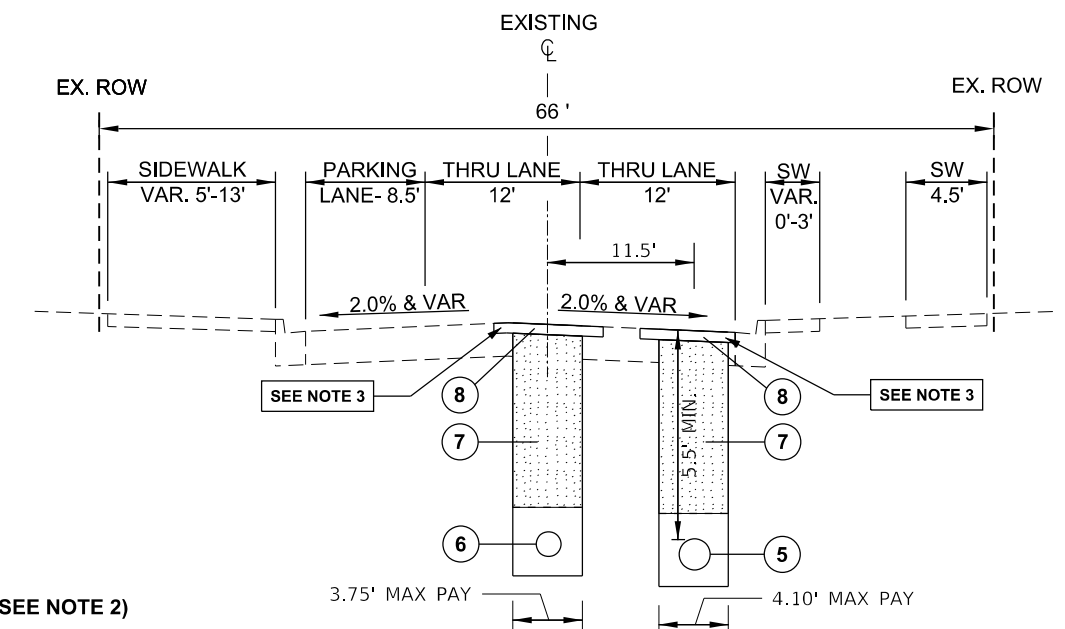
EXISTING TYPICAL SECTION
WILLOW AVENUE
STA. 10+19 TO STA. 11+37
STA. 12+60 TO STA. 14+25



EXISTING TYPICAL SECTION
WILLOW AVENUE
STA. 11+37 TO STA. 12+60



PROPOSED TYPICAL SECTION
WILLOW AVENUE
STA. 10+19 TO STA. 11+37
STA. 12+60 TO STA. 14+25



PROPOSED TYPICAL SECTION
WILLOW AVENUE
STA. 11+37 TO STA. 12+60

- LEGEND**
- ① EX HMA PAVEMENT
 - ② EX COMB. CURB AND GUTTER, TY-6.12
 - ③ EX PARKWAY
 - ④ EX SIDEWALK
 - ⑤ PR. WATERMAIN, 12" (SEE NOTE 1)
 - ⑥ PR. SANITARY SEWER (SEE NOTE 1)
 - ⑦ PR. TRENCH BACKFILL (SEE NOTE 1)
 - ⑧ PR. AGGREGATE FOR TEMP. ACCESS (SEE NOTE 2)

- NOTE:**
- 1. THE CONTRACTOR SHALL NOTIFY AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF OPERATIONS AFFECTING DRIVEWAY INGRESS AND EGRESS.
 - 2. AT ROADS UNDER TRAFFIC, DRIVEWAYS AND SIDEWALKS
 - 3. WHERE CLASS D PATCHES ARE SHOWN, HMA SURFACE REMOVAL, 3" AND HMA SURFACE COURSE, 3" SHALL EXTEND ONE FOOT (1') BEYOND EDGE OF CLASS D PATCHES.

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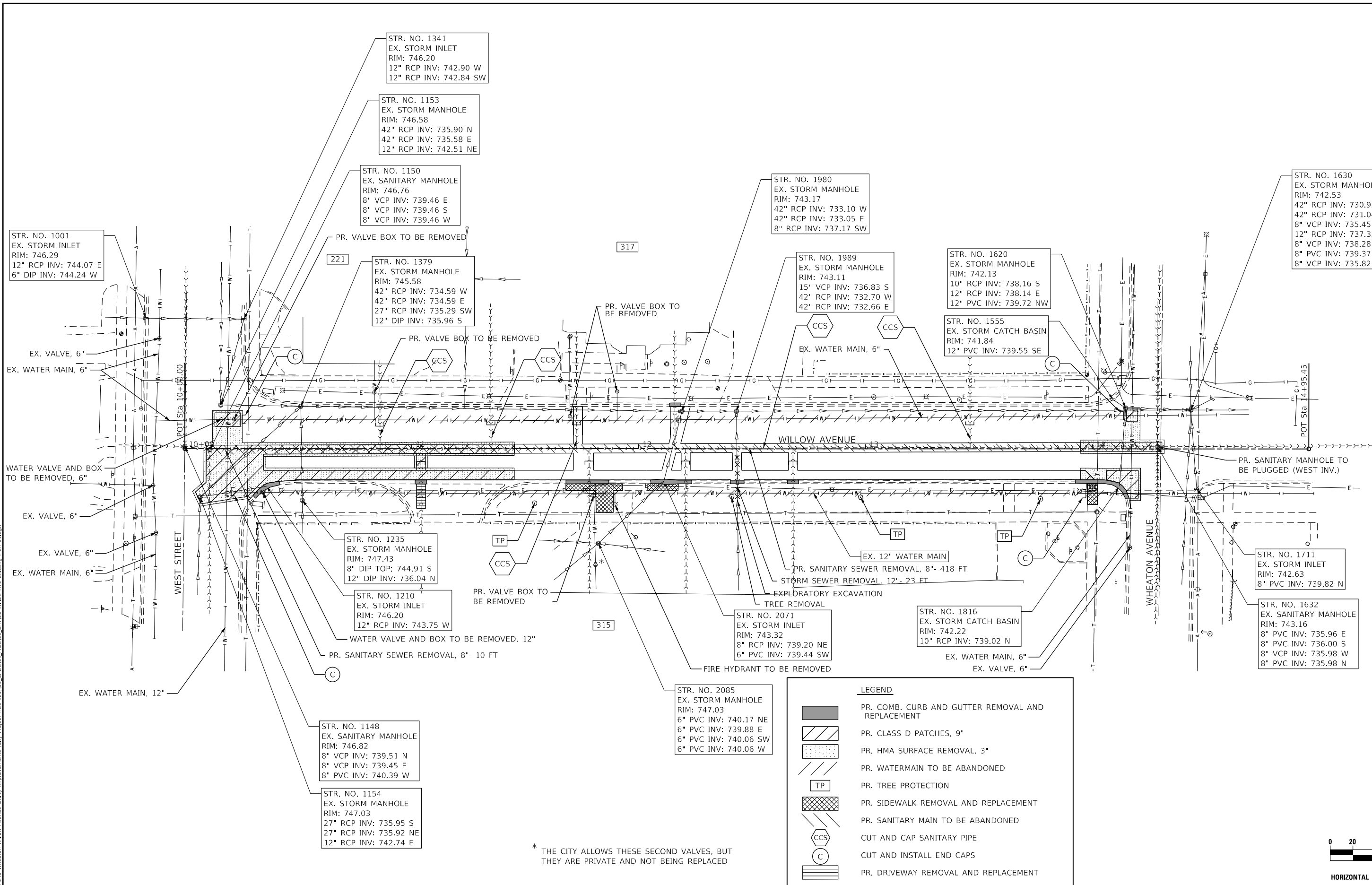
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CITY OF WHEATON
WILLOW AVENUE UTILITY IMPROVEMENT

TYPICAL SECTIONS
WILLOW AVENUE

DRAWING NO.

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* THE CITY ALLOWS THESE SECOND VALVES, BUT
THEY ARE PRIVATE AND NOT BEING REPLACED

LEGEND

PR. COMB. CURB AND GUTTER REMOVAL AND REPLACEMENT

PR. CLASS D PATCHES, 9"

PR. HMA SURFACE REMOVAL, 3"

PR. WATERMAIN TO BE ABANDONED

PR. TREE PROTECTION

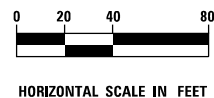
PR. SIDEWALK REMOVAL AND REPLACEMENT

PR. SANITARY MAIN TO BE ABANDONED

CUT AND CAP SANITARY PIPE

CUT AND INSTALL END CAPS

PR. DRIVEWAY REMOVAL AND REPLACEMENT



MODEL: Default
FILE NAME: T:\Projects\25-129\05-CADD\01-MOD\03-SHT\06-Willow Ave Existing Plan 01.dgn

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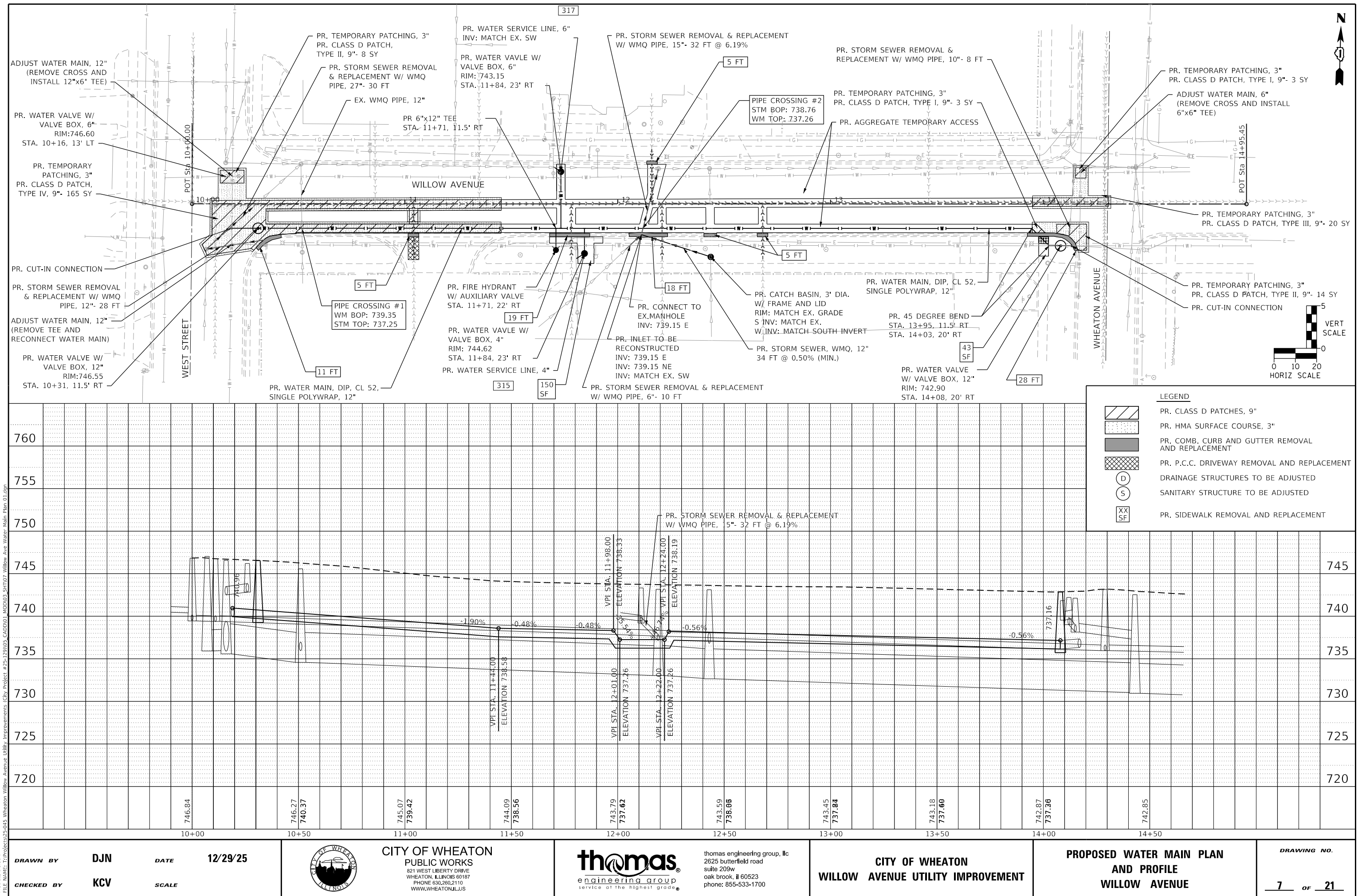


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phone: 855-533-1700

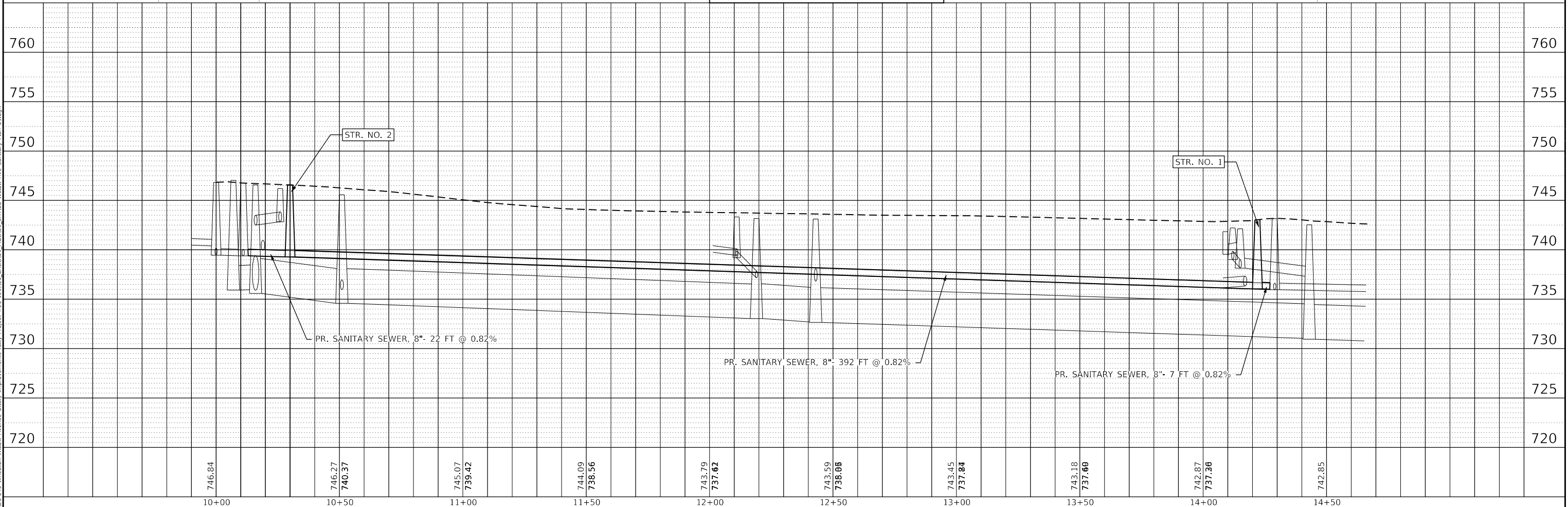
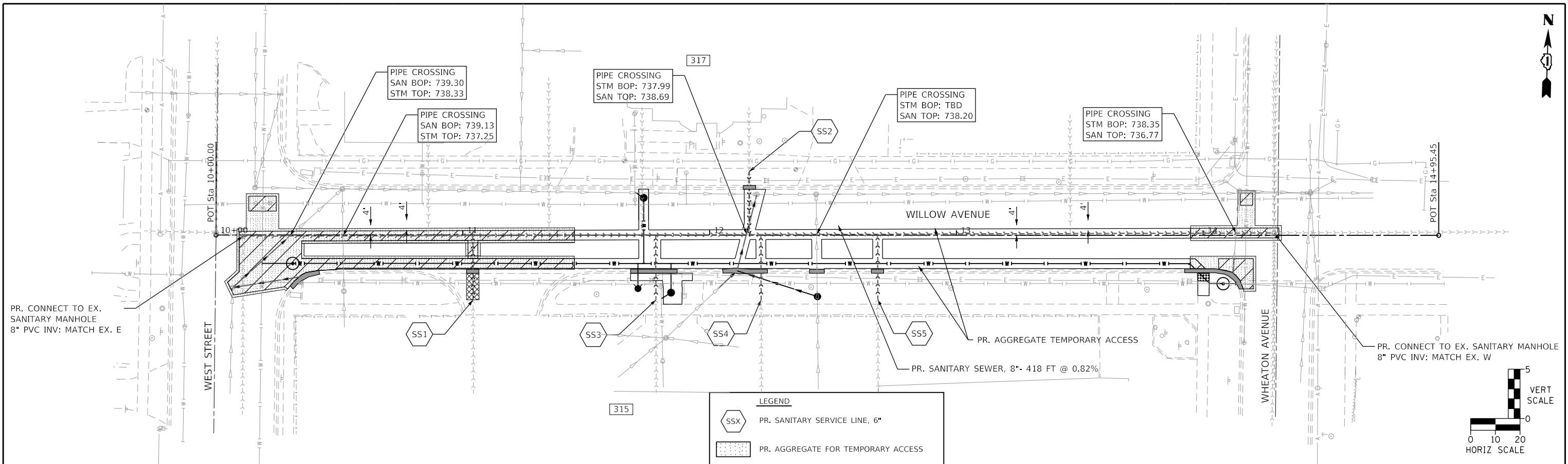
CITY OF WHEATON WILLOW AVENUE UTILITY IMPROVEMENT
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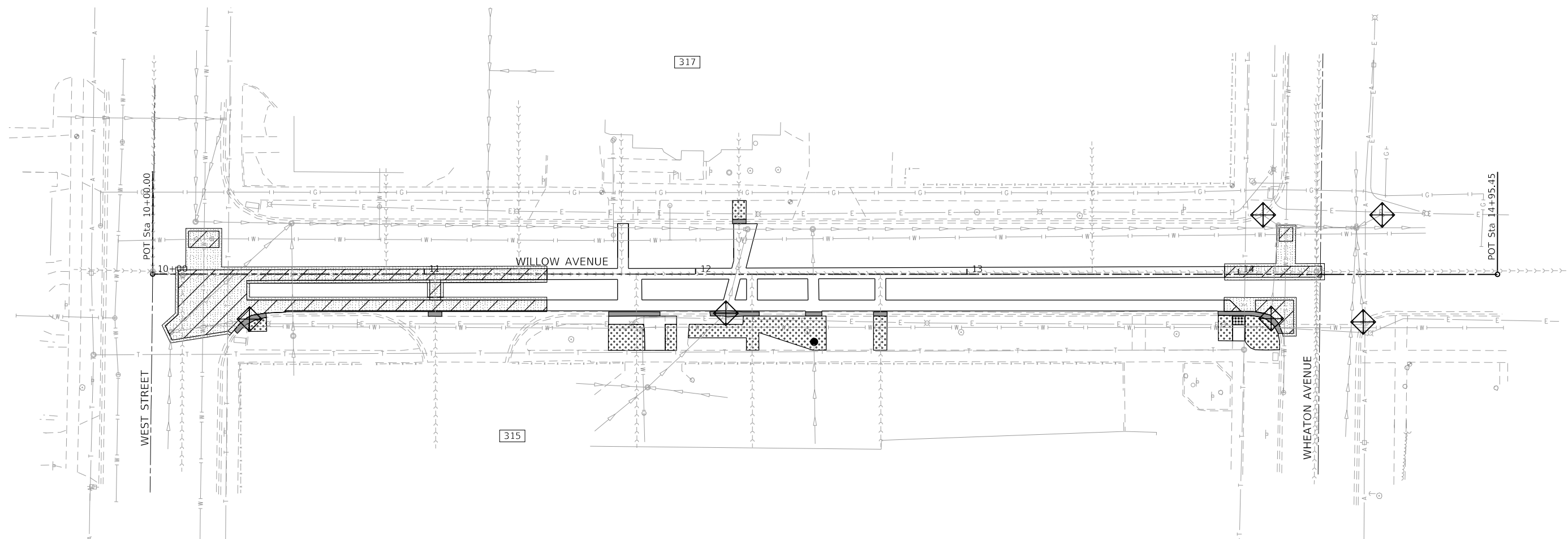
EXISTING CONDITIONS AND REMOVALS PLAN WILLOW AVENUE

DRAWING NO.
6 OF 21





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LEGEND

 PR. INLET FILTERS

 PR. SODDING



HORIZONTAL SCALE IN FEET

MODEL: Default
FILE NAME: I:\Projects\25-045 Wheaton Willow Avenue Utility Improvements (City Project #25-129)\05-CADD\01-MOD\03-SHT\09 Willow Ave Erosion Plan 01.dgn

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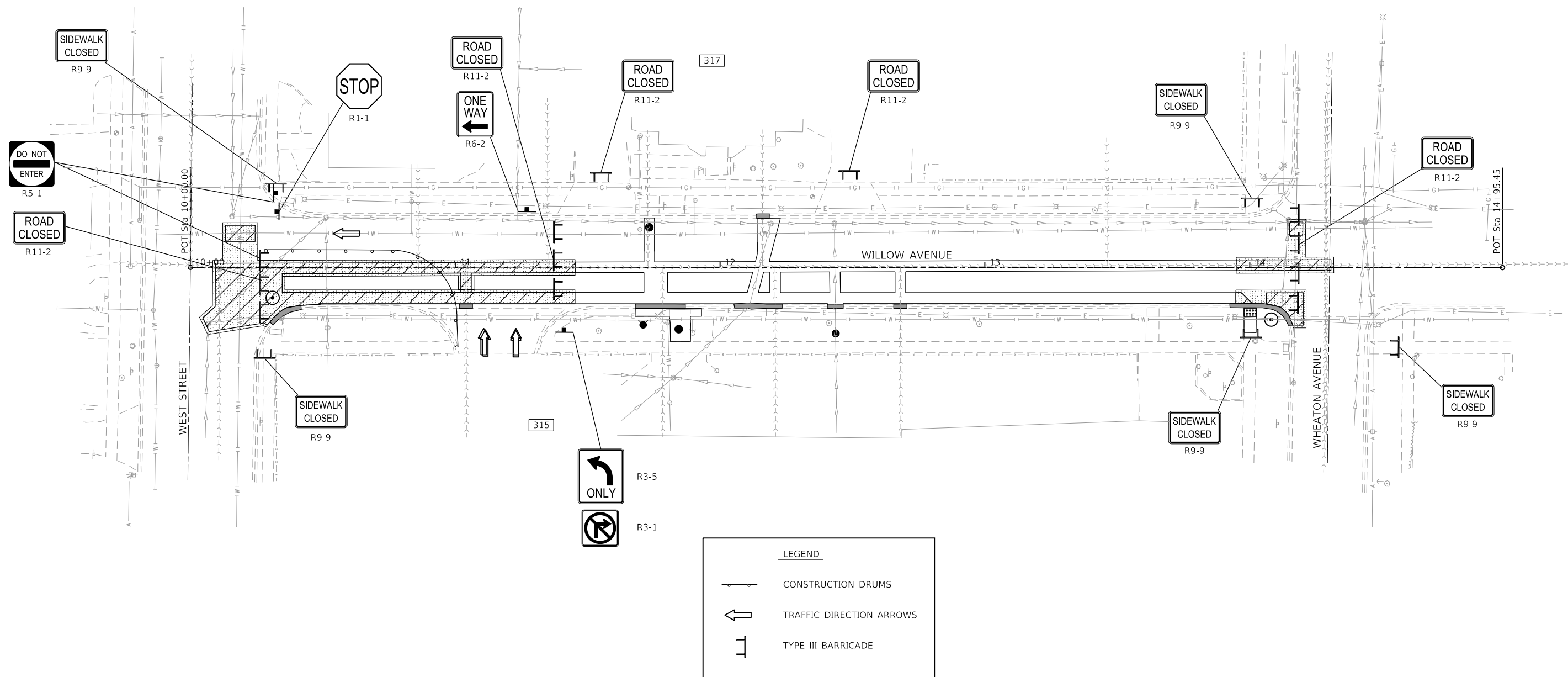


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CITY OF WHEATON
WILLOW AVENUE UTILITY IMPROVEMENT

EROSION CONTROL AND
LANDSCAPING PLAN
WILLOW AVENUE

DRAWING NO.
9 OF 21



NOTE:

1. ALL COSTS ASSOCIATED WITH "MAINTENANCE OF TRAFFIC PLANS" SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE FOR "TRAFFIC CONTROL AND PROTECTION (LUMP SUM)."



HORIZONTAL SCALE IN FEET

MODEL: Default
FILE NAME: T:\Projects\25-045 Wheaton Willow Avenue Utility Improvements (City Project #25-129)\05-CADD\01-MOD\03-SHT10 Willow Ave NOT 01.dgn

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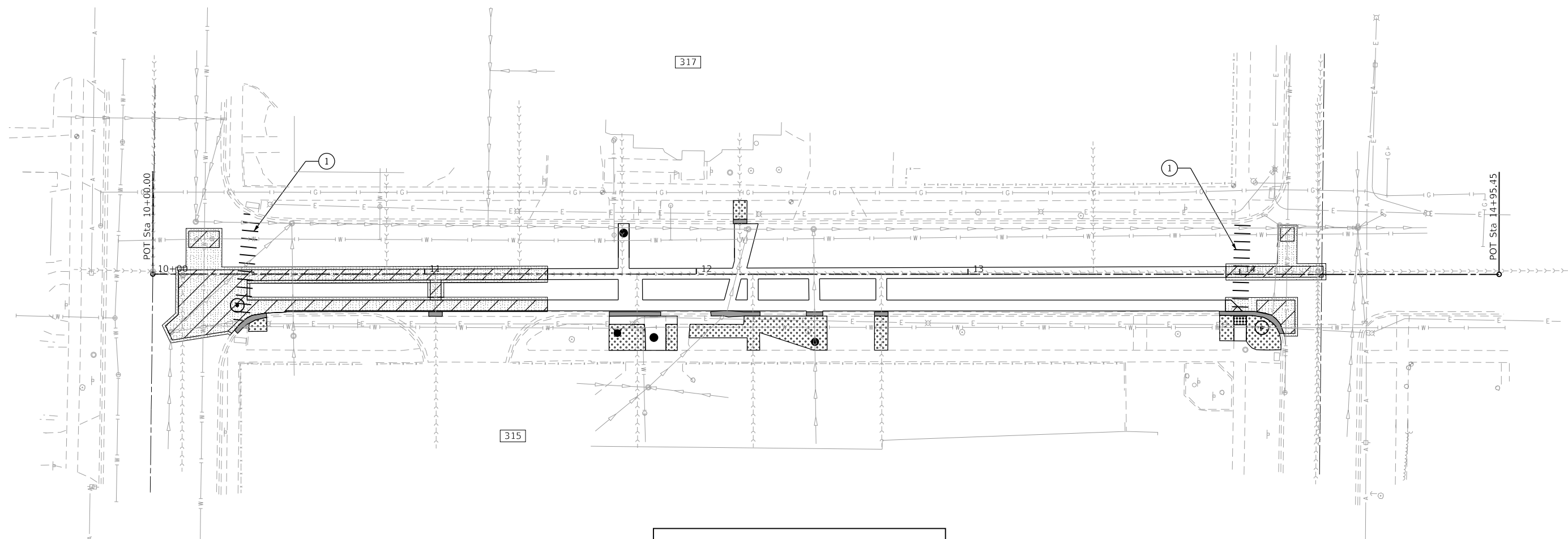
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WILLOW AVENUE UTILITY IMPROVEMENT

MAINTENANCE OF TRAFFIC PLAN
WILLOW AVENUE

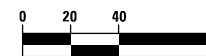
DRAWING NO.

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PAVEMENT MARKING LEGEND

① THERMOPLASTIC PAVEMENT MARKING-LINE 24"
SCHOOL CROSSWALK LINES, WHITE, TYP.



HORIZONTAL SCALE IN FEET

MODEL: Default
FILE NAME: T:\Projects\25-045 Wheaton Willow Avenue Utility Improvements (City Project #25-129)\05-CADD\01-MOD\03-SHT11 Willow Ave PM 01.dgn

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CITY OF WHEATON WILLOW AVENUE UTILITY IMPROVEMENT
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PAVEMENT MARKING PLAN WILLOW AVENUE
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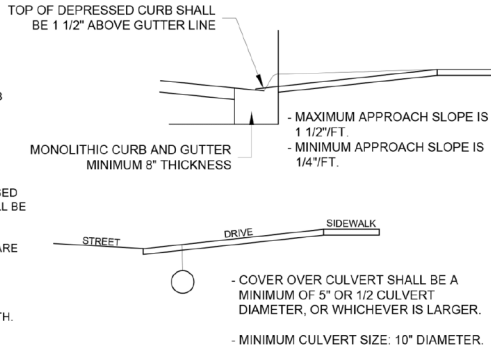
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MODEL: Default
FILE NAME: I:\Projects\25-045 Wheaton Willow Avenue Utility Improvements (City Project #25-129)\05-CADD\01-MOD\03-SHT12-16 City of Wheaton Standards.dgn

DRIVE APPROACH & SIDEWALK SPECIFICATIONS

GENERAL STANDARDS

1. ALL PORTLAND CEMENT CONCRETE SHALL CONFORM TO ILLINOIS DEPARTMENT OF TRANSPORTATION CLASS SI MIX.
2. WHERE NEW CONCRETE WORK MEETS OR ABUTS ANY EXISTING CONCRETE STRUCTURES, THE EXISTING CONCRETE SHALL BE SAW CUT TO A STRAIGHT AND CLEAN EDGE AND EXPANSION MATERIAL PLACED BETWEEN THE NEW AND EXISTING WORK.
3. EXPANSION MATERIAL IS ALSO REQUIRED BETWEEN NEW CURB AND NEW CONCRETE APPROACHES, NEW SIDEWALK AND NEW CONCRETE DRIVEWAYS; AND NEW CURB AND NEW SIDEWALK.
4. A CULVERT WILL BE REQUIRED WHERE THE STREET DOES NOT HAVE CURB AND GUTTER.
5. REPLACEMENT OF BARRIER CURB AND GUTTER WITH DEPRESSED CURB AND GUTTER TO BE WITH A SINGLE POUR. GUTTER SHALL BE A MINIMUM OF 8" THICK.
6. WIRE MESH, REBAR, AND OTHER FORMS OF REINFORCEMENT ARE NOT ALLOWED IN CITY SIDEWALKS.
7. PEA GRAVEL IS NOT ALLOWED AS FILL OR BASE MATERIAL.
8. ALL CURB REPLACEMENTS SHALL BE A MINIMUM OF 5' IN LENGTH.



RESIDENTIAL APPROACH

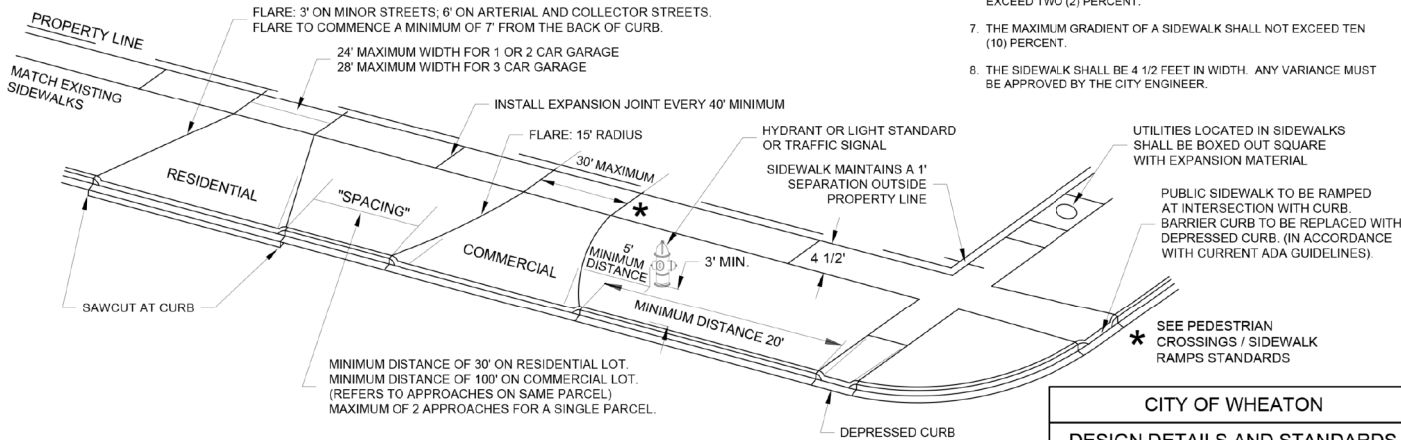
1. SHALL BE 5" THICK, PORTLAND CEMENT CONCRETE, CLASS SI
2. 1 1/2" BITUMINOUS CONCRETE ON AN 8" THICK AGGREGATE BASE
3. BRICK PAVERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. MANUFACTURER'S SPECIFICATIONS MUST BE SUBMITTED AS PART OF THE PERMIT APPLICATION.

COMMERCIAL APPROACH

1. 6" THICK, PORTLAND CEMENT CONCRETE, CLASS SI (BITUMINOUS IS NOT PERMITTED)

SIDEWALK

1. 4" THICK, PORTLAND CEMENT CONCRETE ON A COMPACTED CRUSHED AGGREGATE OR BANK RUN GRAVEL BASE.
2. 5" THICK THROUGH RESIDENTIAL APPROACHES
3. 6" THICK THROUGH COMMERCIAL APPROACHES
4. WALK SHALL BE NO LOWER THAN THE CENTERLINE OF THE STREET.
5. THE SIDEWALK SHALL HAVE SCORED TRANSVERSE JOINTS AT EQUAL SPACING OF FIVE (5) FEET.
6. THE MAXIMUM TRANSVERSE GRADIENT OF A SIDEWALK SHALL NOT EXCEED TWO (2) PERCENT.
7. THE MAXIMUM GRADIENT OF A SIDEWALK SHALL NOT EXCEED TEN (10) PERCENT.
8. THE SIDEWALK SHALL BE 4 1/2 FEET IN WIDTH. ANY VARIANCE MUST BE APPROVED BY THE CITY ENGINEER.



CITY OF WHEATON

DESIGN DETAILS AND STANDARDS

FIGURE # 1

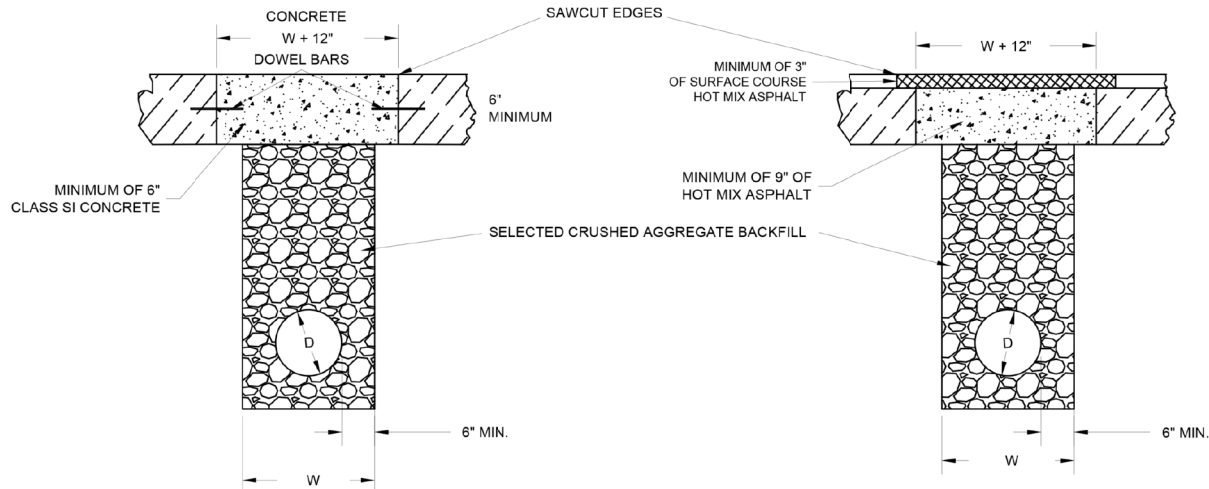
DATE: 12-07-20

FILE NAME: Drive Approach & Sidewalk.dwg

STREET CUT REPAIR SPECIFICATIONS

Reference "Standard Specifications for Road and Bridge Construction" LATEST EDITION.

- * ASPHALT PATCHES ONLY FOR ASPHALT ROADWAYS
- * CONCRETE PATCHES ONLY FOR CONCRETE ROADWAYS



SECTION 58-106 - ANY STREET OR SIDEWALK DISTURBED BY EXCAVATION SHALL BE RESTORED TO ITS ORIGINAL CONDITION WITHIN 72 HOURS FROM THE TIME THE WORK COMMENCED, UNLESS GRANTED AN EXTENSION BY THE CITY ENGINEER. IN ALL CASES, HOWEVER, STREET OPENINGS SHALL BE BACK FILLED WITH APPROVED GRANULAR MATERIAL AND A TEMPORARY PAVEMENT SURFACE OF COMPACTED, COLD ASPHALT MATERIAL, A MINIMUM OF TWO INCHES IN DEPTH, SHALL BE PLACED ON THE AREA DISTURBED BY CONSTRUCTION WITHIN 12 HOURS FROM THE TIME THE WORK COMMENCED.

PATCHING ON ARTERIAL, COLLECTOR AND CENTRAL BUSINESS DISTRICT ROADWAYS, OR ROADWAYS THAT MAY BE DESIGNATED BY THE CITY, MUST BE BACK FILLED AND PATCHED THE DAY OF CONSTRUCTION. REFERENCE CROSS SECTIONS ABOVE.

PERMIT REQUIREMENTS: A STREET CUT PERMIT IS REQUIRED PRIOR TO ANY WORK.

A MINIMUM OF 24 HRS. NOTICE IS REQUIRED PRIOR TO INSPECTION.

SECTION 58-107 - NOTICE SHALL BE GIVEN TO THE DEPARTMENT LISTED ON THE PERMIT AT LEAST 24 HOURS BEFORE THE WORK OF REFILLING ANY EXCAVATION OR TUNNEL IN ANY STREET, ALLEY OR OTHER PUBLIC PLACE COMMENCES.

SECTION 58-14 - ANY PERSON DOING ANY PERMITTED WORK WITHIN ANY STREET OR ALLEY RIGHT-OF-WAY WITHIN THE CITY SHALL MAINTAIN SUFFICIENT AND SUITABLE SIGNS, BARRICADES AND LIGHTS DESIGNED TO WARN THE PUBLIC AGAINST HAZARDS CREATED BY THE PERMITTED WORK BEING DONE OR TO PREVENT DAMAGE TO ANY SUCH WORK.

NOTE:

1. ONE LANE OF TRAFFIC SHALL BE MAINTAINED FOR PERMITTED FULL WIDTH STREET CUTS.
2. CONCRETE PATCHES NOT PERMITTED ON ASPHALT STREETS.
3. DOWEL BARS SHALL BE USED TO TIE NEW CONCRETE INTO EXISTING CONCRETE.

CITY OF WHEATON

DESIGN DETAILS AND STANDARDS

FIGURE # 2

DATE: 12-07-20

FILE NAME: Street Cut Repair.dwg

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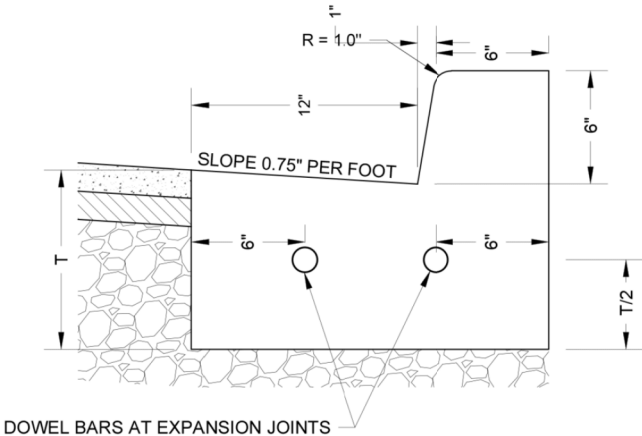
CITY OF WHEATON STANDARDS

DRAWING NO.

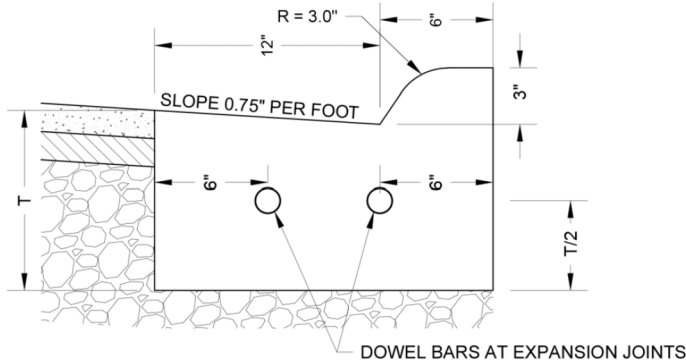
12 OF 21

CURB & GUTTER SPECIFICATIONS

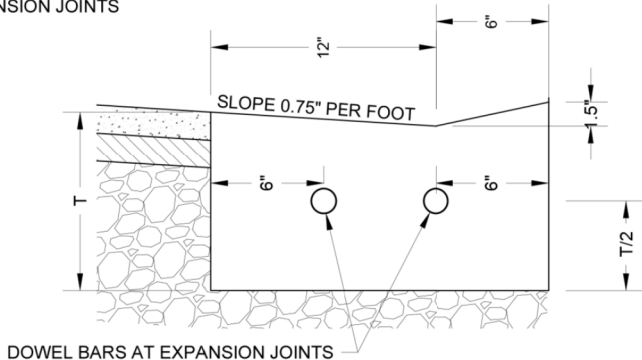
TYPE B 6.12



TYPE M 3.12



DEPRESSED CURB



NOTE:

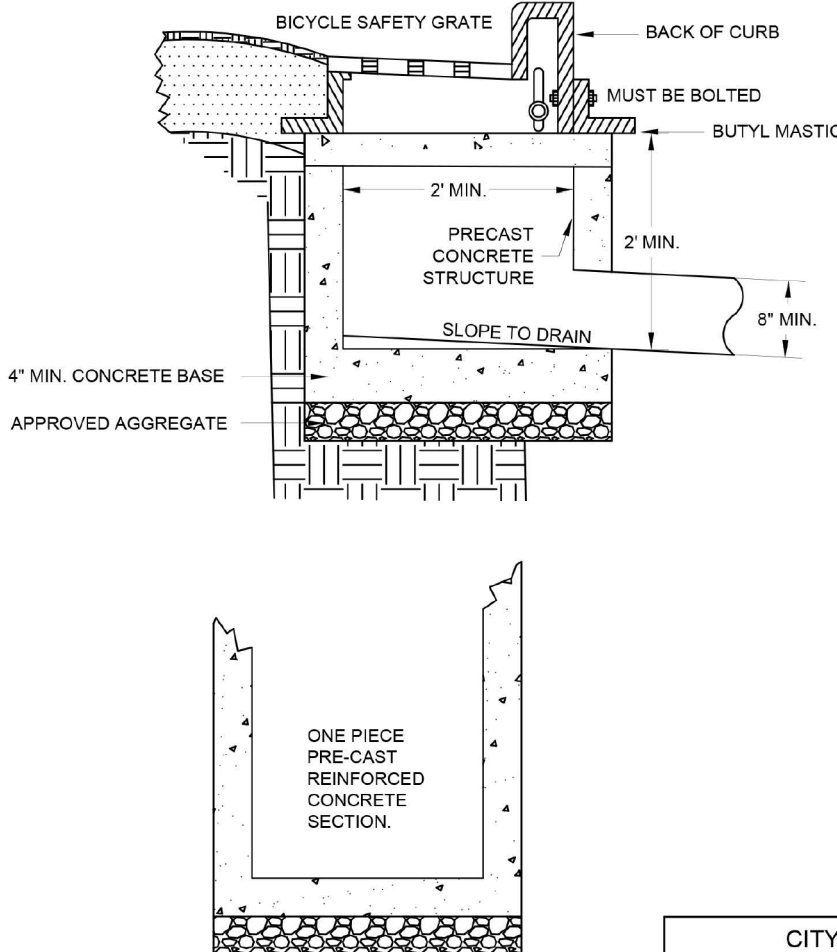
- 1. TWO NO.6 STEEL DOWEL BARS WITH CAPS TO BE USED AT ALL EXPANSION JOINTS 100 ft. INTERVALS.
- 2. CONSTRUCTION JOINTS AT 25 ft. INTERVALS.
- 3. INSTALL THREE 3/8" REBAR AT ALL TRENCH CROSSINGS. BARS TO EXTEND TWO FEET BEYOND EDGE OF TRENCH AND HAVE A MINIMUM LENGTH OF 10 FT.
- 4. THE BASE COURSE WILL BE OF A DEPTH SUFFICIENT TO BRING THE CURB AND GUTTER TO THE PROPOSED GRADE.
- 5. THE BASE COURSE LOCATED UNDER THE CURB AND GUTTER WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE SPECIFIED.

T = THICKNESS OF PAVEMENT

CITY OF WHEATON	
DESIGN DETAILS AND STANDARDS	
FIGURE # 4	
DATE: 12-07-20	FILE NAME: Curb & Gutter.dwg

CURBLINE INLET OR CATCH BASIN

- 1. A MAXIMUM ADJUSTMENT OF 8" USING 2 (TWO) RISER RINGS. NO METAL RISER RINGS OR BRICKS ALLOWED.
 - A. CONCRETE ADJUSTING RINGS SHALL HAVE A MINIMUM THICKNESS OF 2"
 - B. RUBBER ADJUSTING RINGS SHALL TOTAL NO MORE THAN 3"
- 2. FRAME AND GRATE SHALL BE NEENAH R-3010
- 3. ALL JOINTS BETWEEN BARREL SECTION, RISER, AND CASTING SHALL BE SEALED WITH FLEXIBLE BUTYL MASTIC MATERIAL 2-1/4" WIDE AND 3/8" THICK OR ENGINEER APPROVED SUBSTITUTE. MORTAR IS NOT ALLOWED.
- 4. THE GRATE SHALL BE A BICYCLE SAFETY GRATE.
- 5. REFERENCE: STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, CURRENT EDITION
- 6. IN ALL INSTANCES WHERE 2 OR MORE PIPES ENTER OR EXIT AN INLET OR CATCH BASIN, 4' INSIDE DIAMETER STRUCTURE MUST BE USED. ANY SUBSTITUTIONS MUST BE APPROVED BY THE CITY ENGINEER.



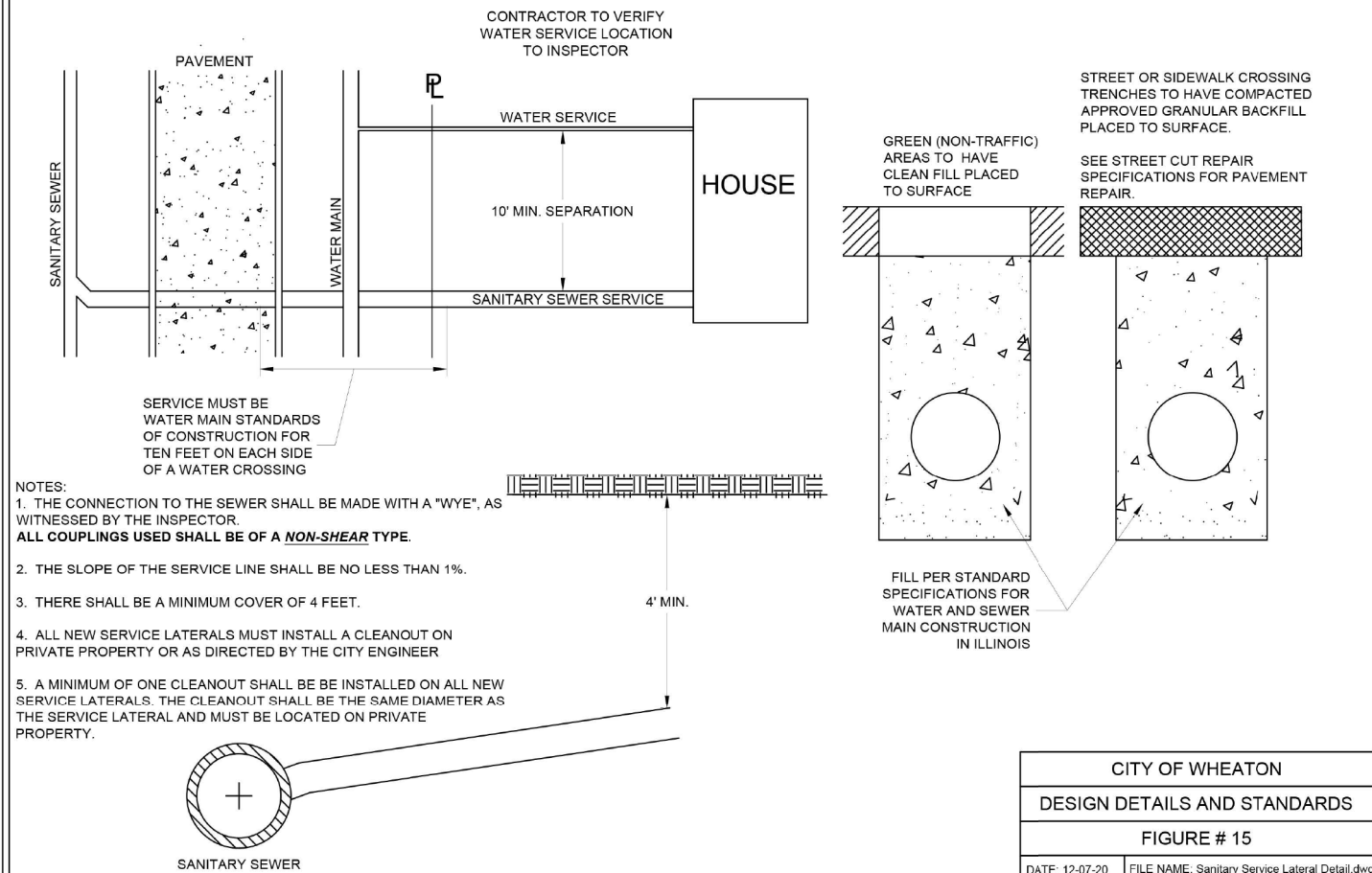
CITY OF WHEATON	
DESIGN DETAILS AND STANDARDS	
FIGURE # 5	
DATE: 12-07-20	FILE NAME: Curbline Inlet or Catch Basin.dwg

MODEL: Default
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SANITARY SEWER SERVICE LATERAL DETAIL

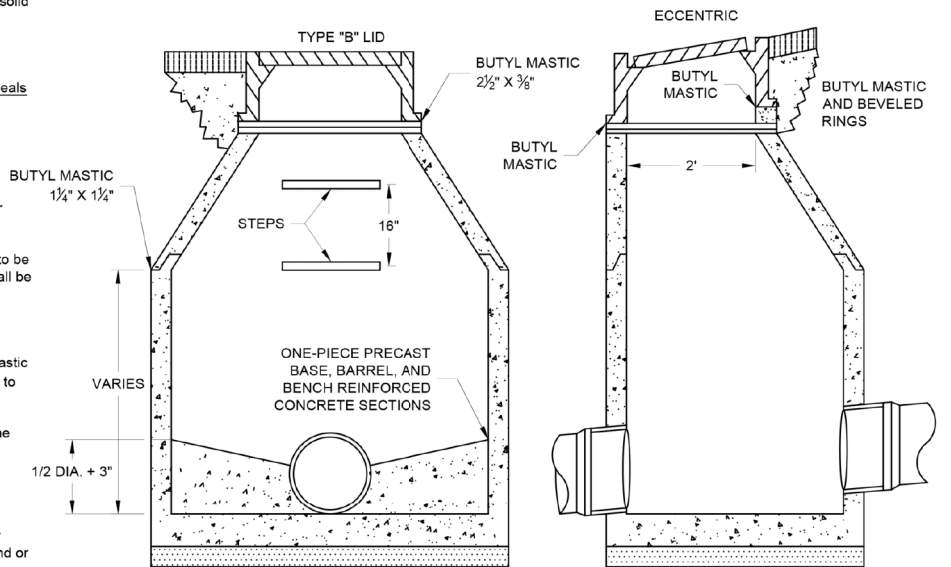
A MINIMUM 24-HOUR NOTICE IS REQUIRED PRIOR TO SCHEDULING AN INSPECTION



SANITARY MANHOLE

NOTES:

1. Sanitary Manhole castings
 - A. In paved and parkway areas Neenah R-1772 (380 lbs.) with a solid lid.
 - B. In backlot areas Neenah R-1772 (325 lbs.).
2. All frames and lids must have concealed pick holes and gasketed self-sealing features. "O" ring seals are not permitted. Flat gaskets "T" seals are required, and frame must accommodate chimney seal.
3. All lids must be stamped "Sanitary Manhole".
4. Manholes to have one piece integral base and barrel section.
5. Manholes to be 4' diameter for sewers 18" or less, and 5' diameter for sewers larger than 18" and less than 48".
6. Manholes 4' in diameter which exceed a depth of 4' shall have steps to be coated with polypropylene plastic. "Press Fit" type installation. Steps shall be 16" apart on center.
7. All Manholes to have chimney seal collars.
8. All joints between barrel sections shall be sealed with flexible butyl mastic material 1 1/4" wide by 1 1/4" thick. All joints between riser rings and frames to be sealed with flexible butyl mastic material 2 1/2" wide 3/8" thick.
9. External or internal chimney seals must be installed between the dome and frame.
10. All connections to be by preinstalled synthetic rubber sleeve with stainless steel clamps, non shear-type.
11. When shimming to grade is required in paved areas, beveled rubber adjustment rings and butyl mastic shall be used. No shimming of any kind or mortar layers are allowed.
13. The maximum amount of adjustment for frame elevation is 8" with 2 riser rings. Concrete adjusting rings shall have a minimum thickness of 2". Rubber adjusting rings shall total no more than 3". Beveled riser rings shall be used in cases where a difference in elevation exists. Metal riser rings are not allowed and bricks shall not be used for shimming the frame on the structure.
14. When an eccentric cone is used:
 - A. If the Manhole is of 4' dia. then the cone shall be of 2'-6" in height.
 - B. If the Manhole is of 5' dia. then the cone shall be of 3'-9" in height



CITY OF WHEATON	
DESIGN DETAILS AND STANDARDS	
FIGURE # 16	
DATE: 12-07-20	FILE NAME: Sanitary Manhole.dwg

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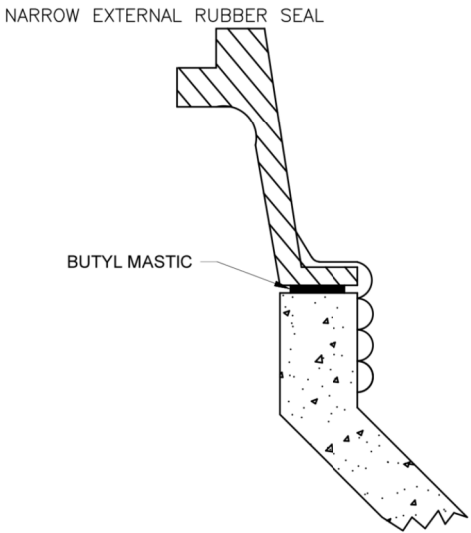
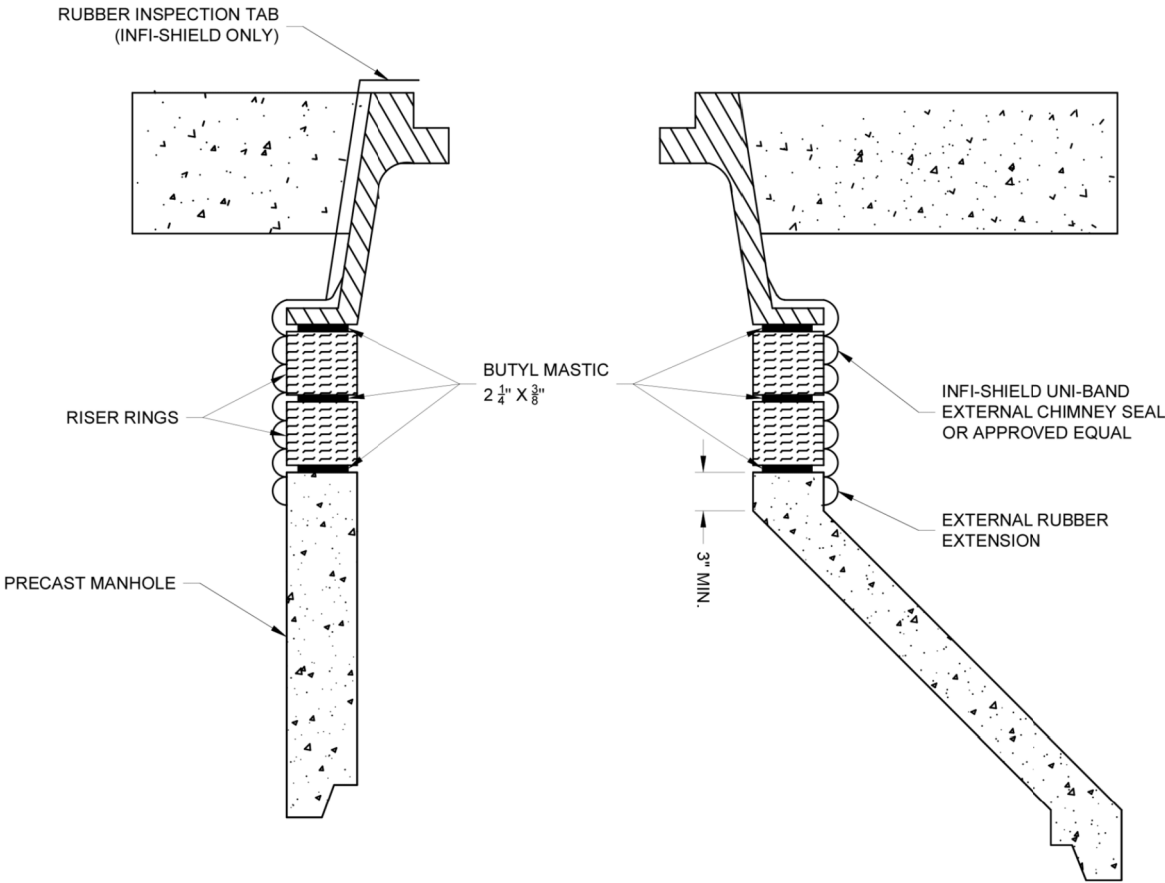
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WILLOW AVENUE UTILITY IMPROVEMENT

CITY OF WHEATON STANDARDS

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SANITARY MANHOLE EXTERNAL CHIMNEY SEAL



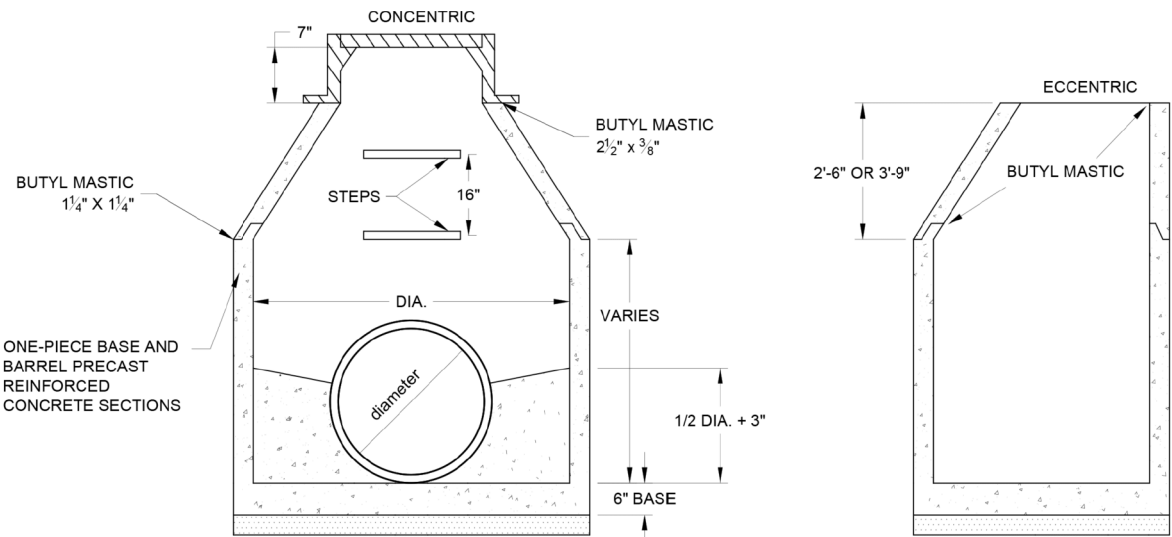
TO SPAN CHIMNEY HEIGHTS OF:
0-3\"/>

Must meet ASTM C-923, A240, F593, 594,
TYPE 304 or approved equal.

Maximum adjustment of 8\"/>

CITY OF WHEATON	
DESIGN DETAILS AND STANDARDS	
FIGURE # 17	
DATE: 12-07-20	FILE NAME: Sanitary Manhole External Chimney Seal.dwg

TYPE "A" STORM SEWER MANHOLE



- NOTES:
- Manhole castings
 - In paved and parkway areas Neenah R-1772 (380 lbs.) or an approved equal product with a solid lid as allowed by the City Engineer. EJIW 1022-3 (370 lbs.) will not be accepted.
 - In back lot areas Neenah R-1772 or an approved equal product with a solid lid as allowed by the City Engineer.
 - Manholes to have ONE piece integral base and barrel section.
 - Manholes to be a minimum 4' diameter for sewers 18" diameter or less, and 5' diameter for sewers larger than 18" diameter and less than 48" diameter.
 - Manholes 4' in diameter which exceed a depth of 4' shall have steps to be coated with polypropylene plastic, "Press Fit" type installation. Steps shall be 16" apart on center.
 - All Manholes to have chimney seal collars.
 - All joints between barrel sections shall be sealed with flexible butyl mastic material 1 1/4" wide by 1 1/4" thick. All joints between riser rings and frames to be sealed with flexible butyl mastic material 2 1/2" wide and 3/8" thick.
 - When shimming is required in street areas, beveled rubber riser rings shall be used. BRICK SHIMMING OR MORTAR IS NOT ALLOWED.
 - The 4" base shall be made of poured in place Class SI concrete or precast with 4" aggregate cushion.
 - The maximum amount of adjustment for frame elevation is 8" with 2 rings.
 - Concrete adjusting rings shall have a minimum thickness of 2"
 - Rubber adjusting rings shall total no more than 3"
 - When an eccentric cone is used:
 - If the Manhole is of 4' dia. then the cone shall be 2'-6" in height.
 - If the Manhole is of 5' dia. then the cone shall be 3'-9" in height.

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DESIGN DETAILS AND STANDARDS	
FIGURE # 21	
DATE: 12-07-20	FILE NAME: Type A Storm Sewer.dwg

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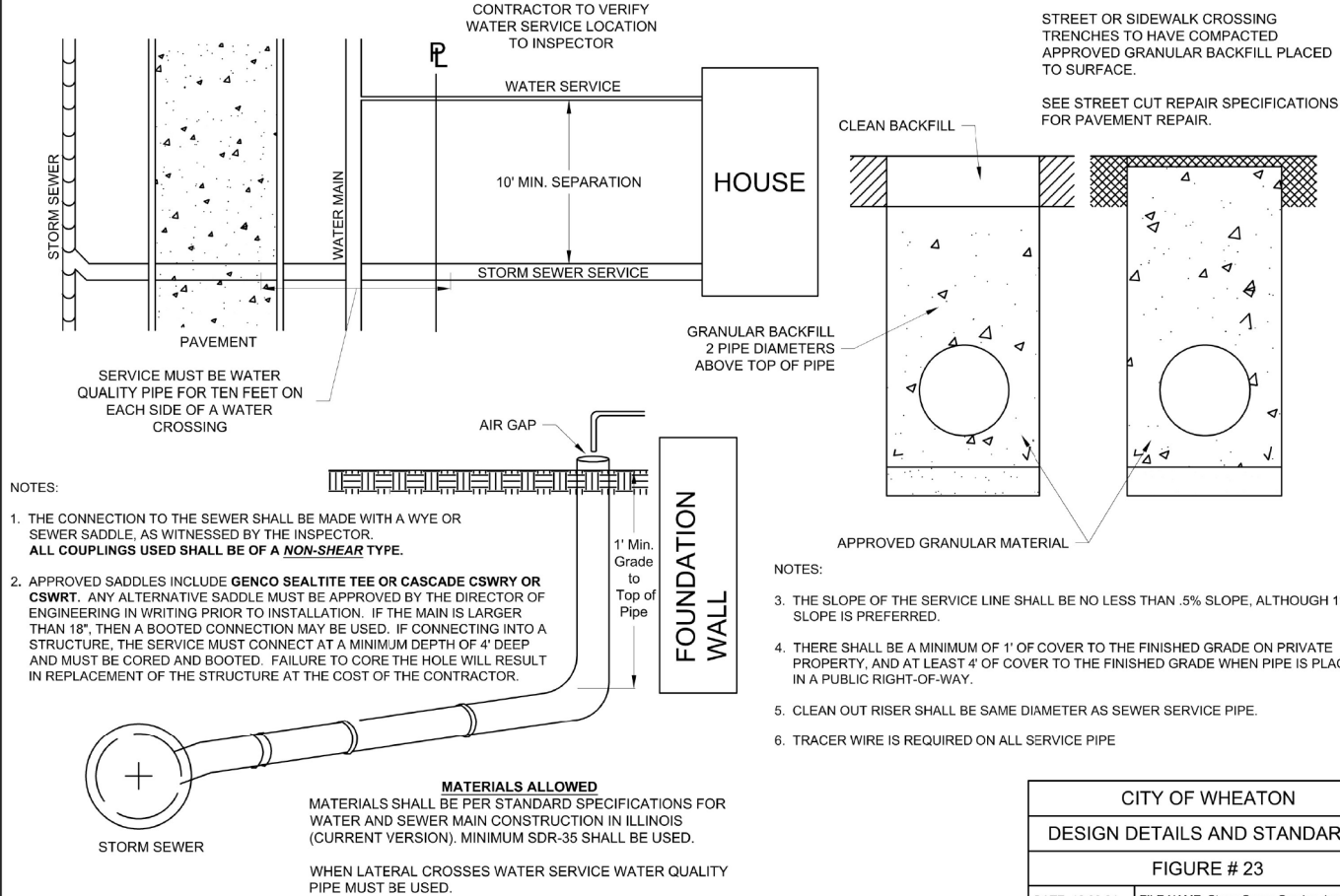
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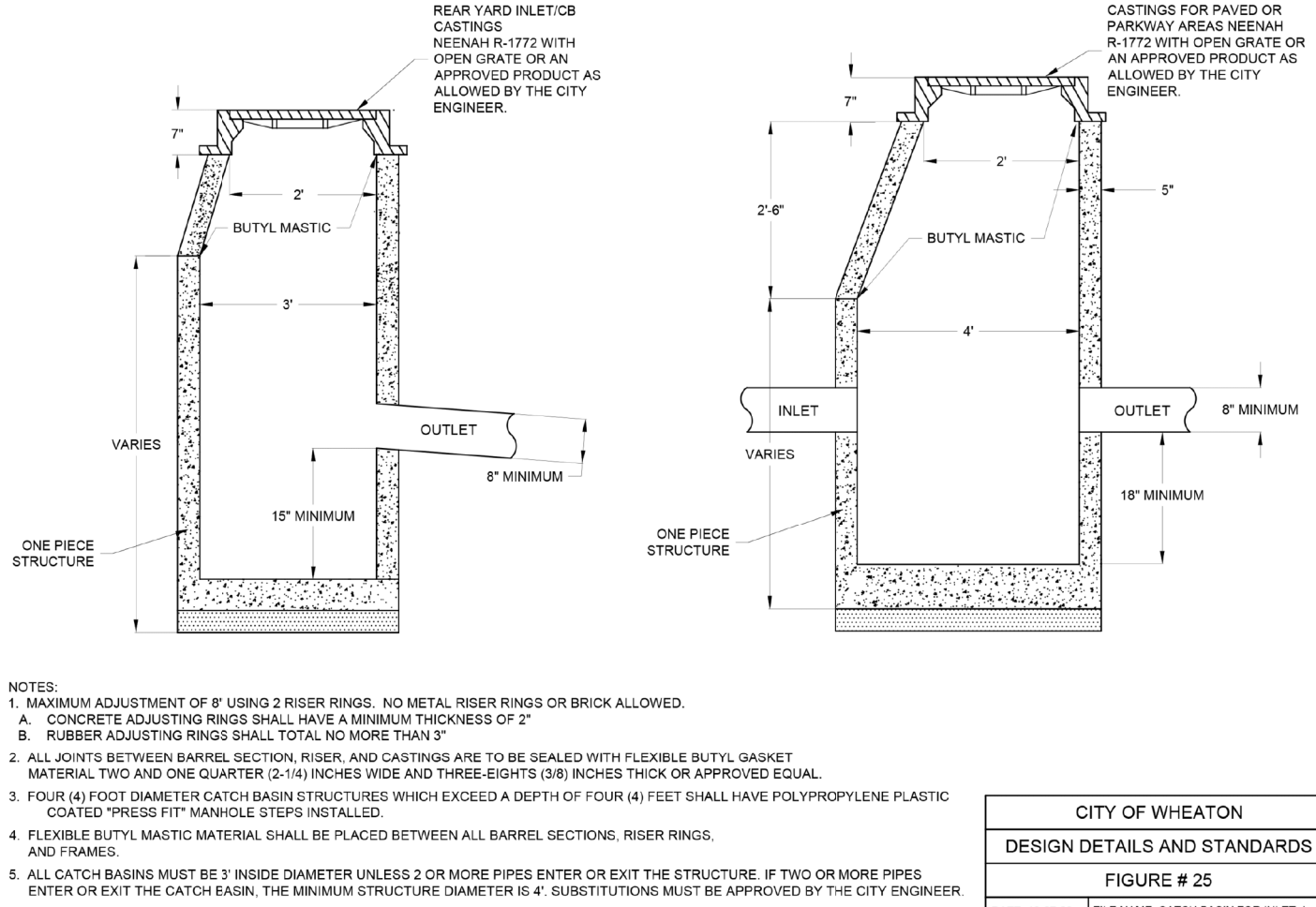
STORM SEWER SERVICE CONNECTION DETAIL

A MINIMUM 48-HOUR NOTICE IS REQUIRED PRIOR TO SCHEDULING AN INSPECTION



CITY OF WHEATON	
DESIGN DETAILS AND STANDARDS	
FIGURE # 23	
DATE: 12-06-24	FILE NAME: Storm Sewer Service.dwg

CATCH BASIN WITH FRAME AND GRATE FOR INLET



CITY OF WHEATON	
DESIGN DETAILS AND STANDARDS	
FIGURE # 25	
DATE: 12-07-20	FILE NAME: CATCH BASIN FOR INLET.dwg

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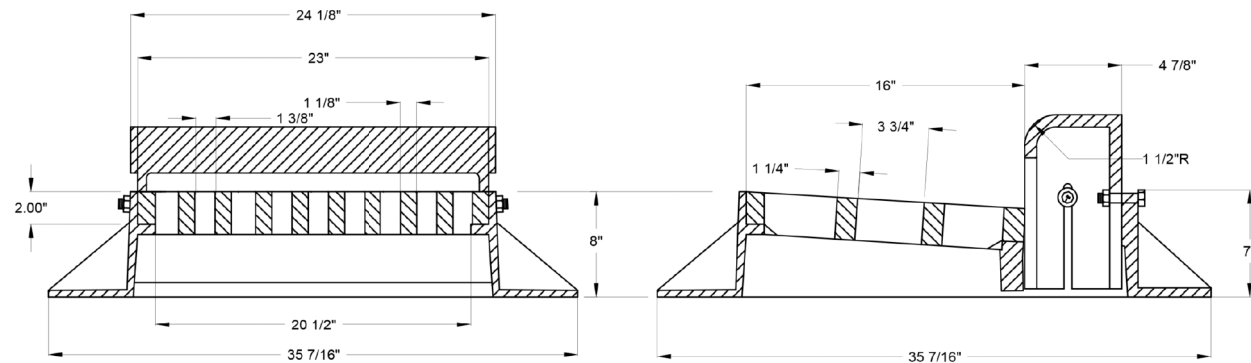
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FILE NAME: T:\Projects\25-045 Wheaton Willow Avenue Utility Improvements (City Project #25-129)\05 CADD\01 MOD\03 SH112-16 City of Wheaton Standards.dgn

SPECIAL FRAME AND GRATE FOR CATCH BASIN AND INLET

TOTAL WEIGHT 355 lbs

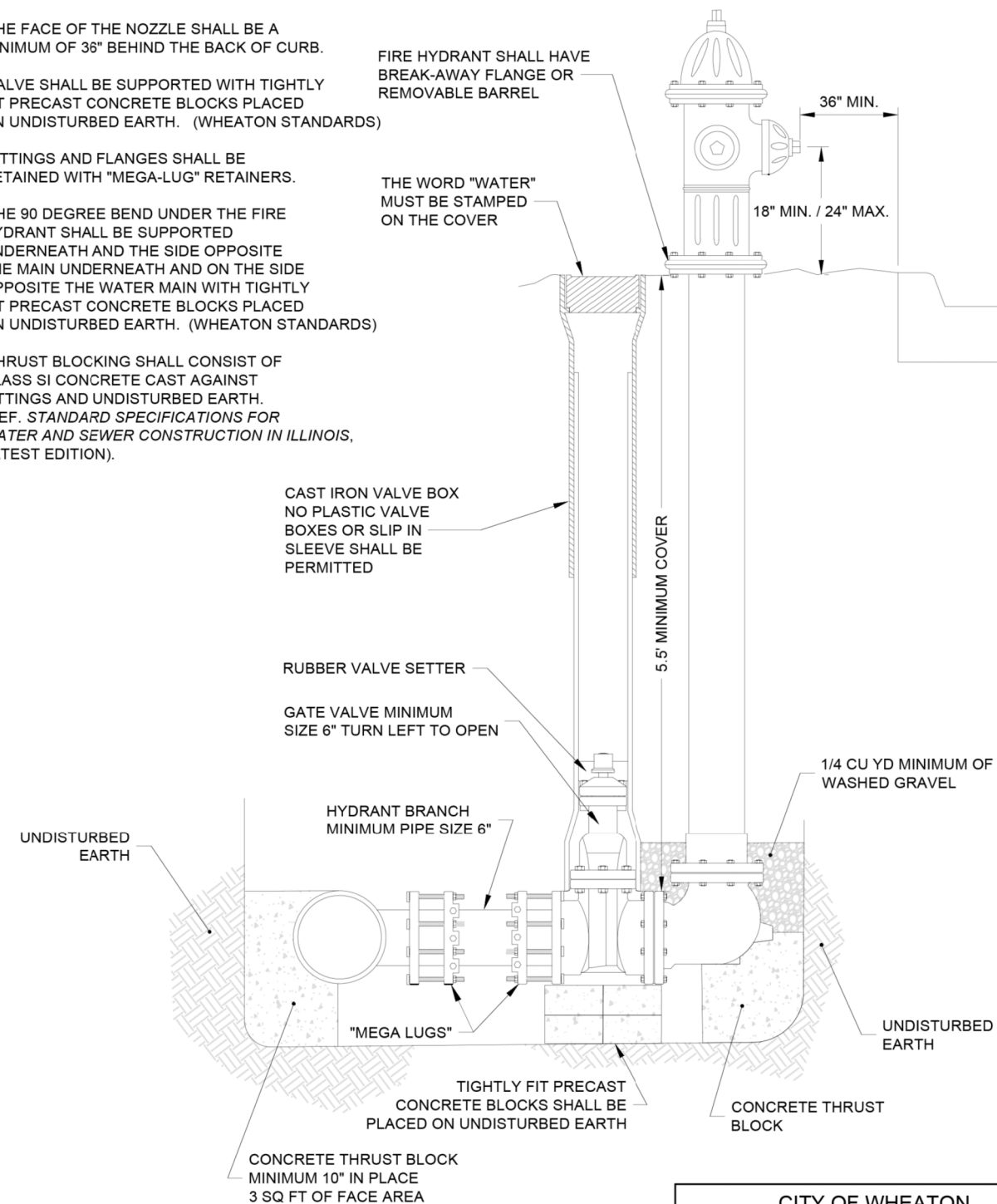


NEENAH #R-3010 OR EQUIVALENT FRAME AND GRATE
1. Use Vane grates, specify right or left, this shall be approved by Sewer Division first.
2. Curb box shall be adjustable from three (3) inches to seven (7) inches.
3. All frame backs must have stamped symbol of a fish per NPDES regulations.

CITY OF WHEATON	
DESIGN DETAILS AND STANDARDS	
FIGURE # 26	
DATE: 12-07-20	FILE NAME: Special Frame and Grate.dwg

FIRE HYDRANT AND VALVE DETAIL

1. FIRE HYDRANT SHALL BE INSTALLED WITH THE STEAMER NOZZLE FACING THE STREET.
2. THE FACE OF THE NOZZLE SHALL BE A MINIMUM OF 36" BEHIND THE BACK OF CURB.
3. VALVE SHALL BE SUPPORTED WITH TIGHTLY FIT PRECAST CONCRETE BLOCKS PLACED ON UNDISTURBED EARTH. (WHEATON STANDARDS)
4. FITTINGS AND FLANGES SHALL BE RETAINED WITH "MEGA-LUG" RETAINERS.
5. THE 90 DEGREE BEND UNDER THE FIRE HYDRANT SHALL BE SUPPORTED UNDERNEATH AND THE SIDE OPPOSITE THE MAIN UNDERNEATH AND ON THE SIDE OPPOSITE THE WATER MAIN WITH TIGHTLY FIT PRECAST CONCRETE BLOCKS PLACED ON UNDISTURBED EARTH. (WHEATON STANDARDS)
6. THRUST BLOCKING SHALL CONSIST OF CLASS SI CONCRETE CAST AGAINST FITTINGS AND UNDISTURBED EARTH. (REF. STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, LATEST EDITION).



CITY OF WHEATON	
DESIGN DETAILS AND STANDARDS	
FIGURE # 30	
DATE: 12-07-20	FILE NAME: Fire Hydrant and Valve.dwg

DRAWN BY DJN DATE 12/29/25
CHECKED BY KCV SCALE



CITY OF WHEATON
PUBLIC WORKS
821 WEST LIBERTY DRIVE
WHEATON, ILLINOIS 60187
PHONE: 630.260.2110
WWW.WHEATON.IL.US

thomas
engineering group
service at the highest grade.

thomas engineering group, llc
2625 butterfield road
suite 209w
oak brook, il 60523
phone: 855-533-1700

CITY OF WHEATON
WILLOW AVENUE UTILITY IMPROVEMENT

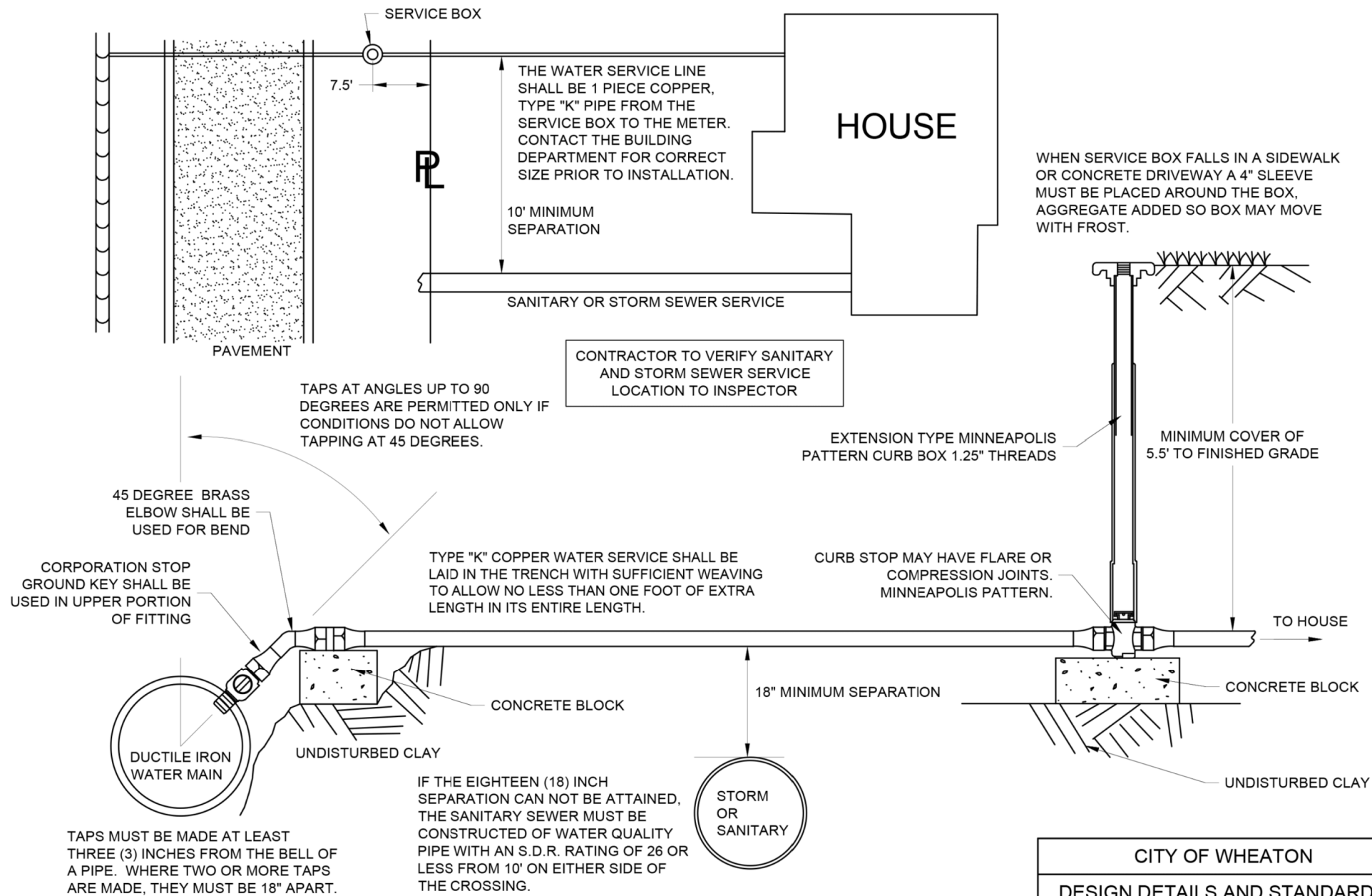
CITY OF WHEATON STANDARDS

DRAWING NO.

17 of 21

MODEL: Default
FILE NAME: T:\Projects\25-045 Wheaton Willow Avenue Utility Improvements (City Project #25-129)\05-CADD\01-MOD\03-SHT\12-16 City of Wheaton Standards.dgn

WATER SERVICE CONNECTION DETAIL

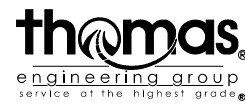


CITY OF WHEATON	
DESIGN DETAILS AND STANDARDS	
FIGURE # 31	
DATE: 12-07-20	FILE NAME: Water Service.dwg

DRAWN BY **DJN** DATE **12/29/25**
CHECKED BY **KCV** SCALE



CITY OF WHEATON
PUBLIC WORKS
821 WEST LIBERTY DRIVE
WHEATON, ILLINOIS 60187
PHONE: 630.260.2110
WWW.WHEATON.IL.US



thomas engineering group, llc
2625 butterfield road
suite 209w
oak brook, il 60523
phone: 855-533-1700

CITY OF WHEATON
WILLOW AVENUE UTILITY IMPROVEMENT

CITY OF WHEATON STANDARDS

DRAWING NO.

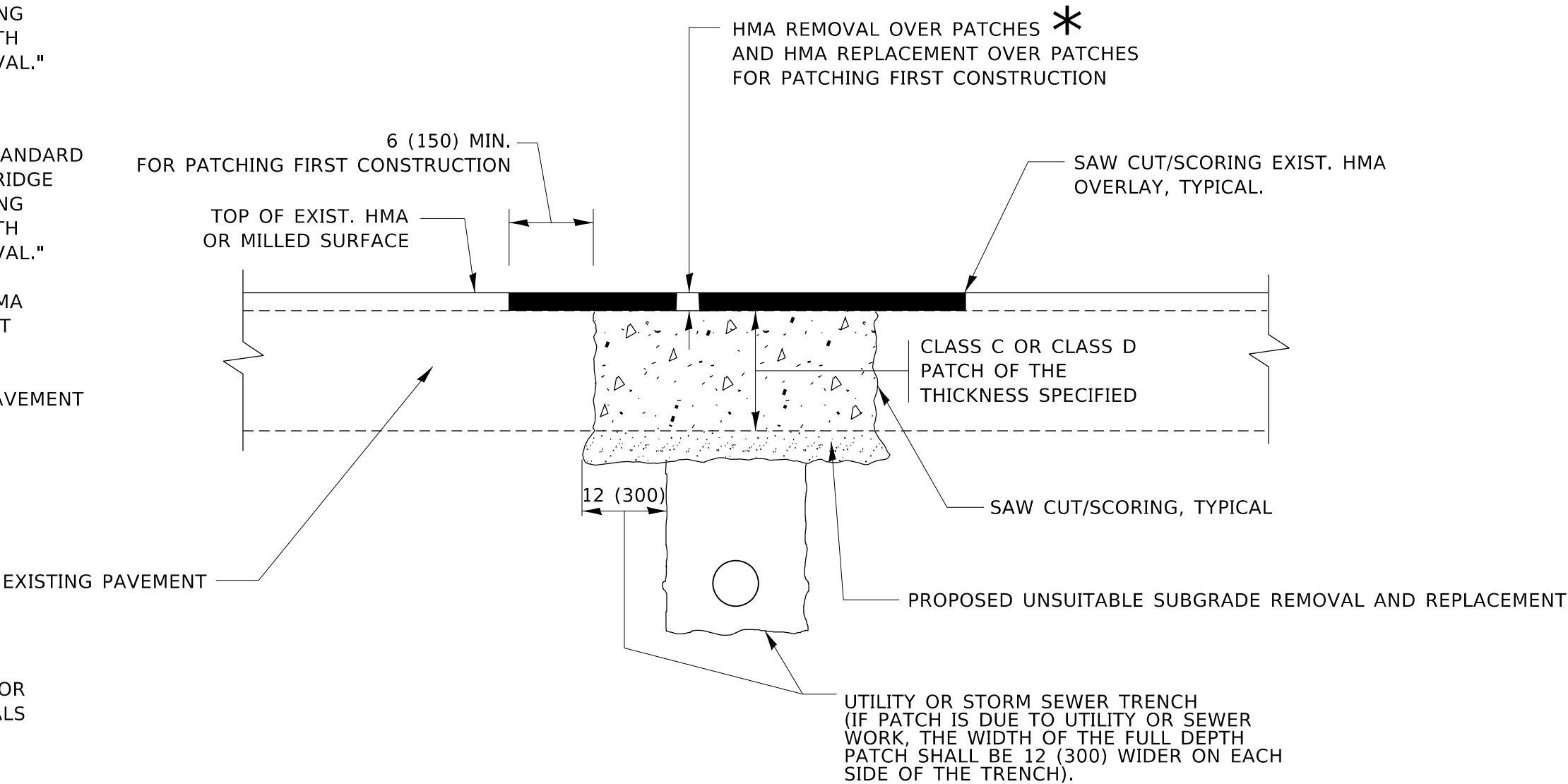
18 OF 21

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

- 1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
- 2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
- 3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

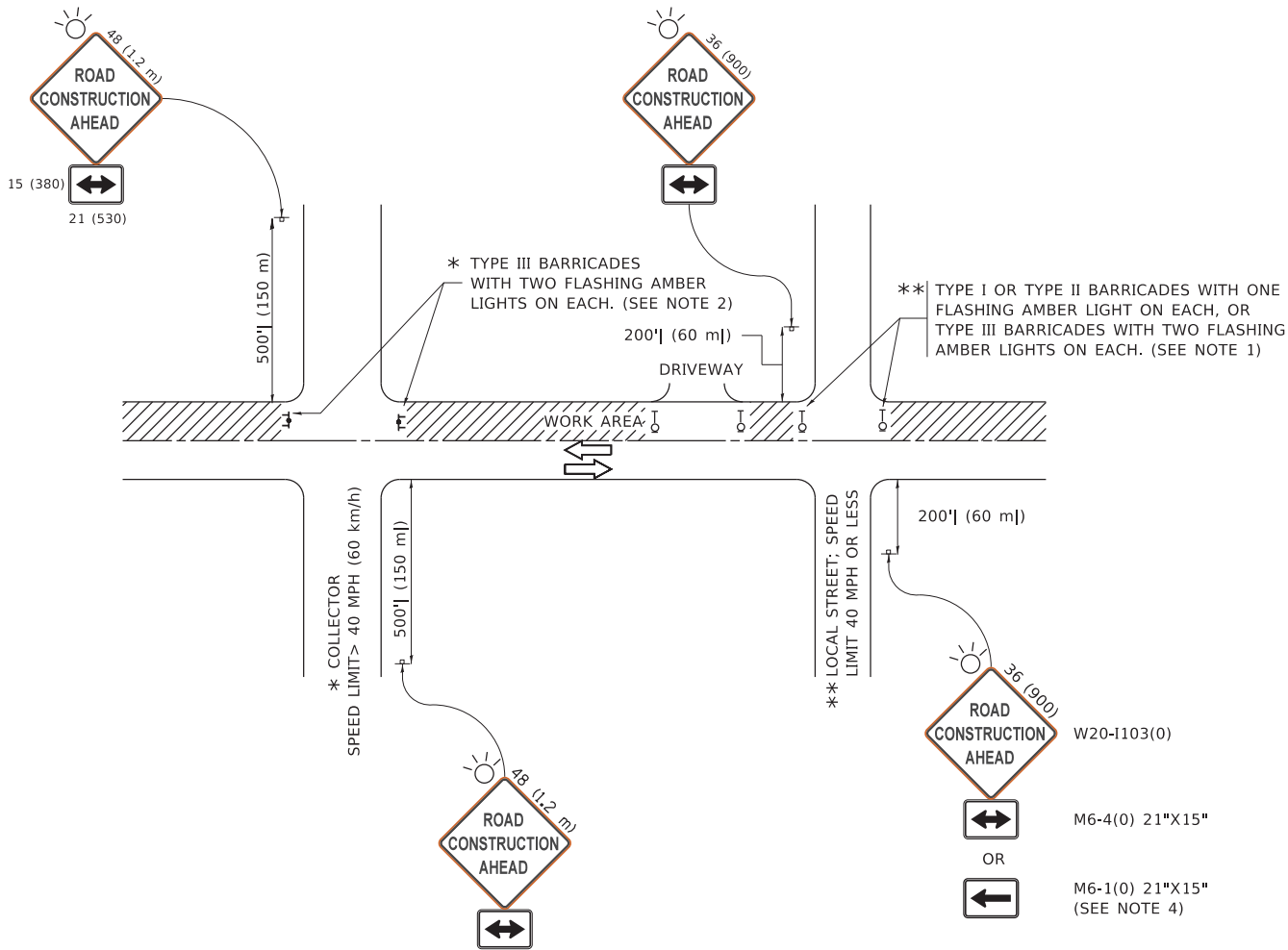
- 1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: Default
FILE: hma_patch.pwd
PROJECT: hma_patch.pwd
DRAWN: R. BORO
CHECKED: K. ENG
DATE: 11-18-22

	USER NAME = Lawrence,DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. BORO 09-04-07								21	19
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - K. ENG 10-27-08					BD400-04 (BD-22)		CONTRACT NO.		
	PLOT DATE = 11/18/2022	DATE - 10-25-94	REVISED - K. SMITH 11-18-22					SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS	FED. AID PROJECT

MODEL: Default
FILE NAME: p:\u0008a8e8d1n1te\Illinois.gov\PIWDOT\Documents\DOT_Offices\District_1\Projects\DUH5422\34\CADData\CAD Sheets\TC-10.dgn

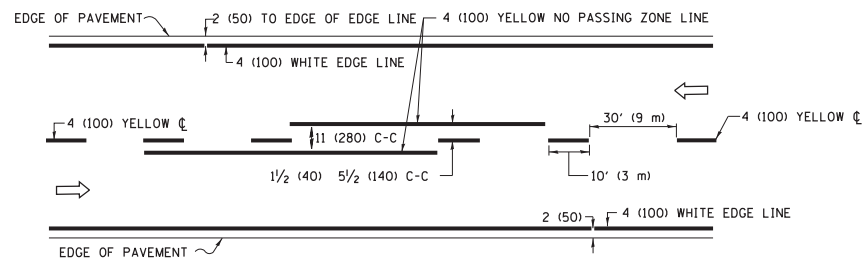


NOTES:

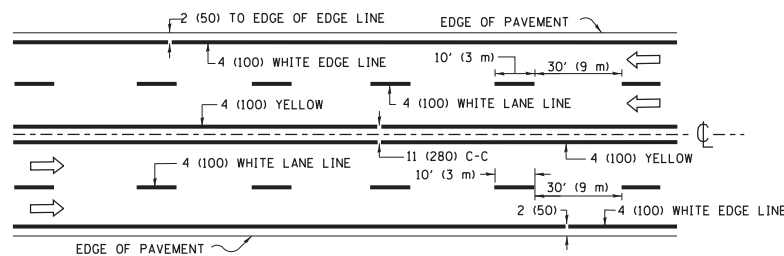
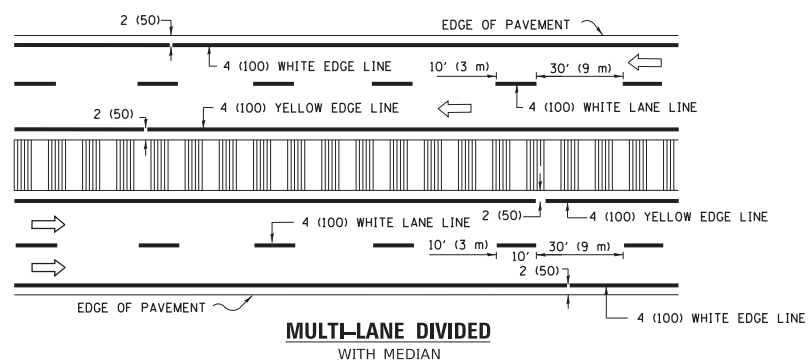
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

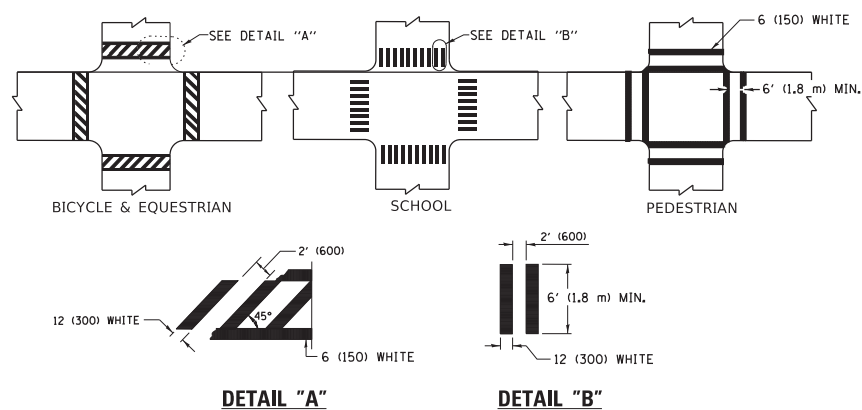
	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - T. RAMMACHER 01-06-00									21	20	
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13						TC-10		CONTRACT NO.			
	PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16		SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT		



2-LANE ROADWAY

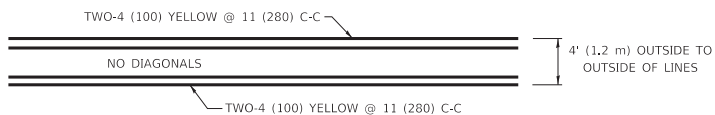
**MULTI-LANE UNDIVIDED**

TYPICAL LANE AND EDGE LINE MARKING

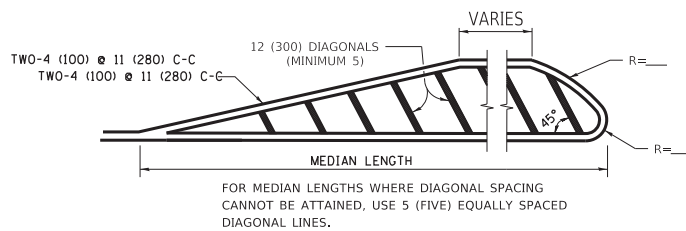


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

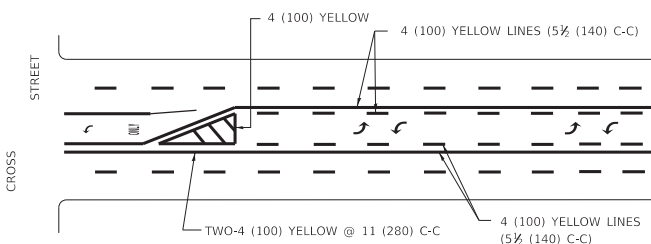


4' (1.2 m) WIDE MEDIANS ONLY

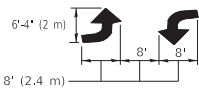


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

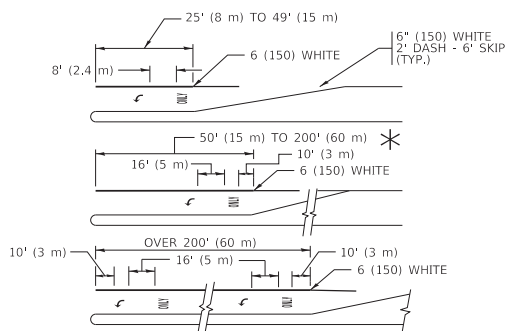


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



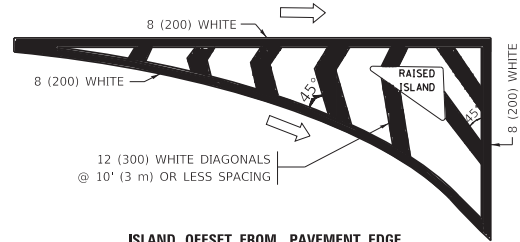
FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED

AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m²)

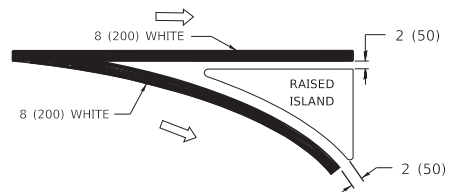
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

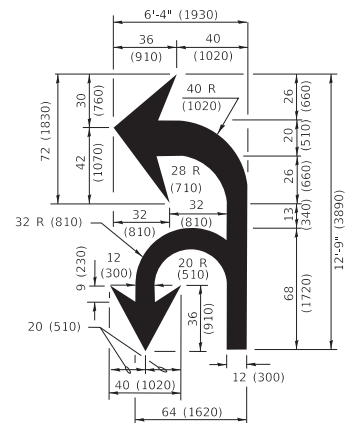


ISLAND OFFSET FROM PAVEMENT EDGE

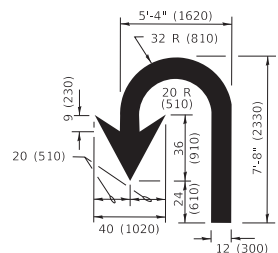


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ² EACH "X"=54.0 SQ. FT. (5.0 m ² EACH
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

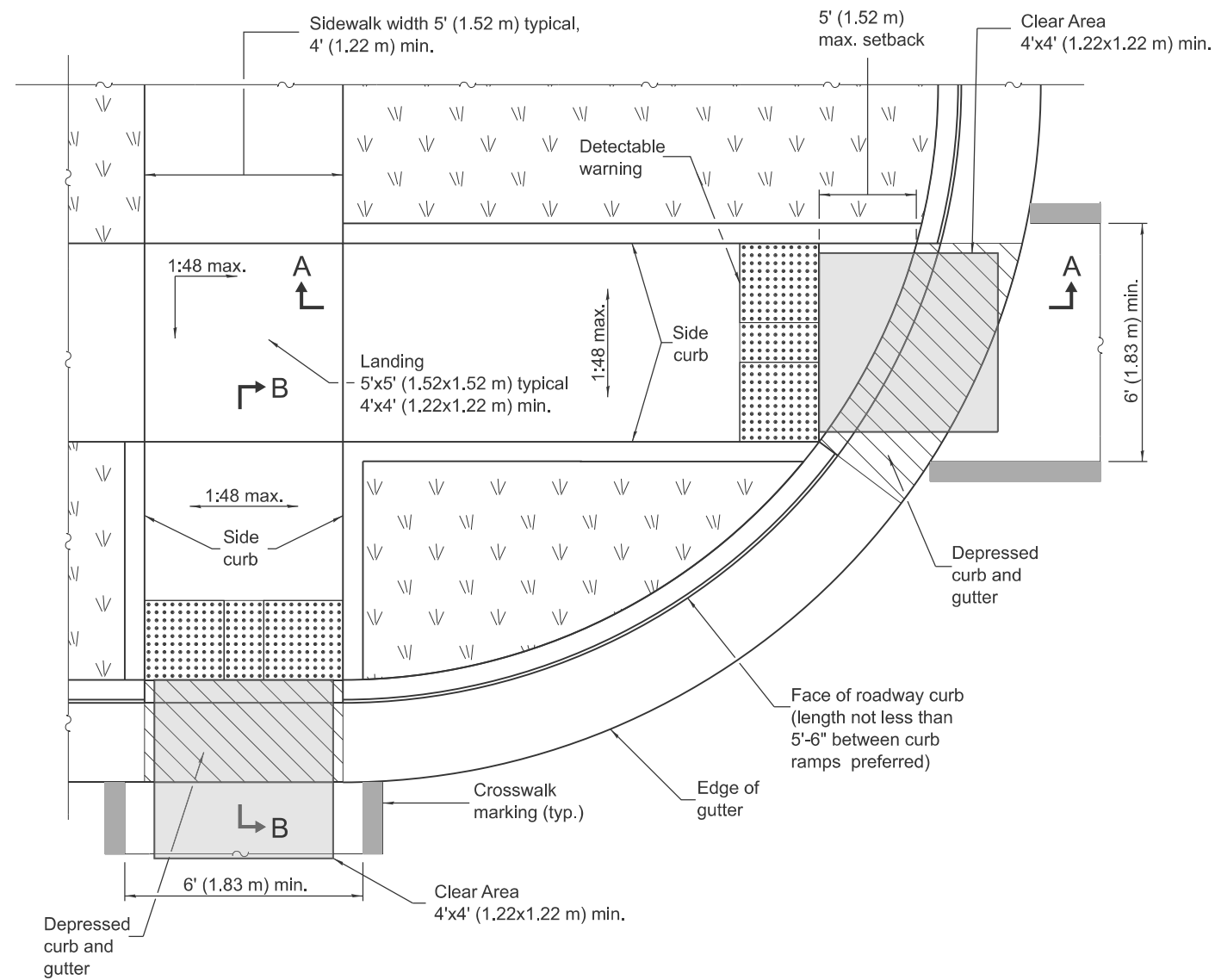
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION AND STATE STANDARD 780001.

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

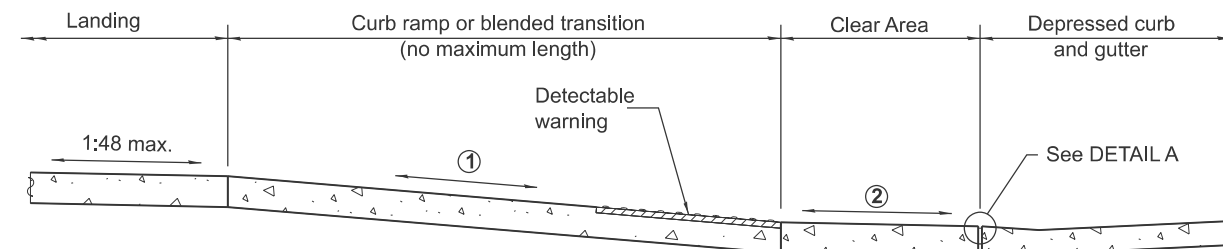
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	DRAWN -	REVISED - C. JUCIUS 07-01-13
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PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

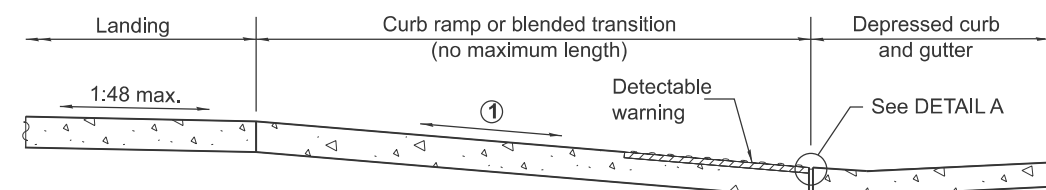
<div style="text-align: center;"> DISTRICT ONE TYPICAL PAVEMENT MARKINGS </div>					F.A. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
									21	21
					TC-13			CONTRACT NO.		
SCALE: NONE	SHEET 1	OF 2	SHEETS	STA.	TO STA.					
					ILLINOIS		FED. AID PROJECT			



RAMPS IN LANDSCAPED AREA
SETBACK $\leq 5'$

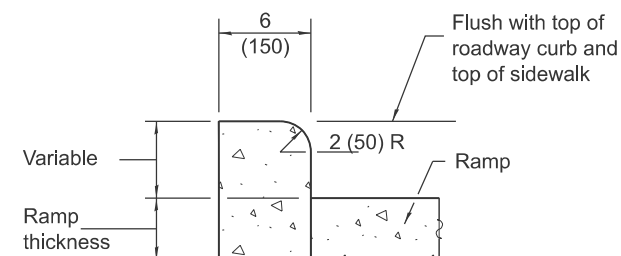


RAMPS IN PAVED AREA
SETBACK ≤ 5'

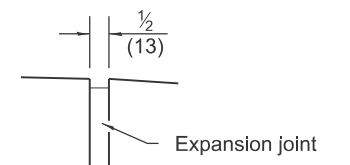


SECTION B-B

- ① The running slope of a curb ramp shall be 1:12 max. The running slope of a blended transition shall be 1:20 max.

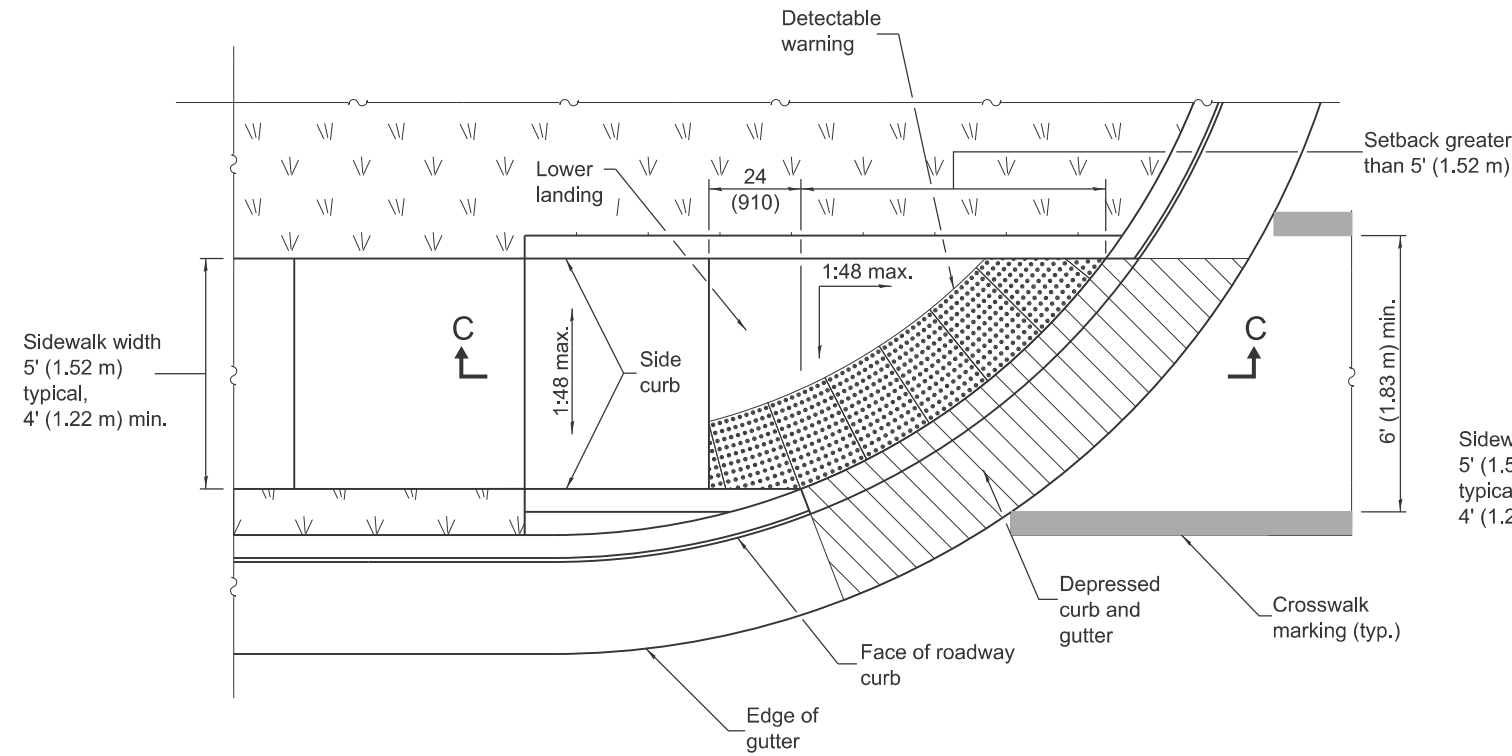


SIDE CURB DETAIL

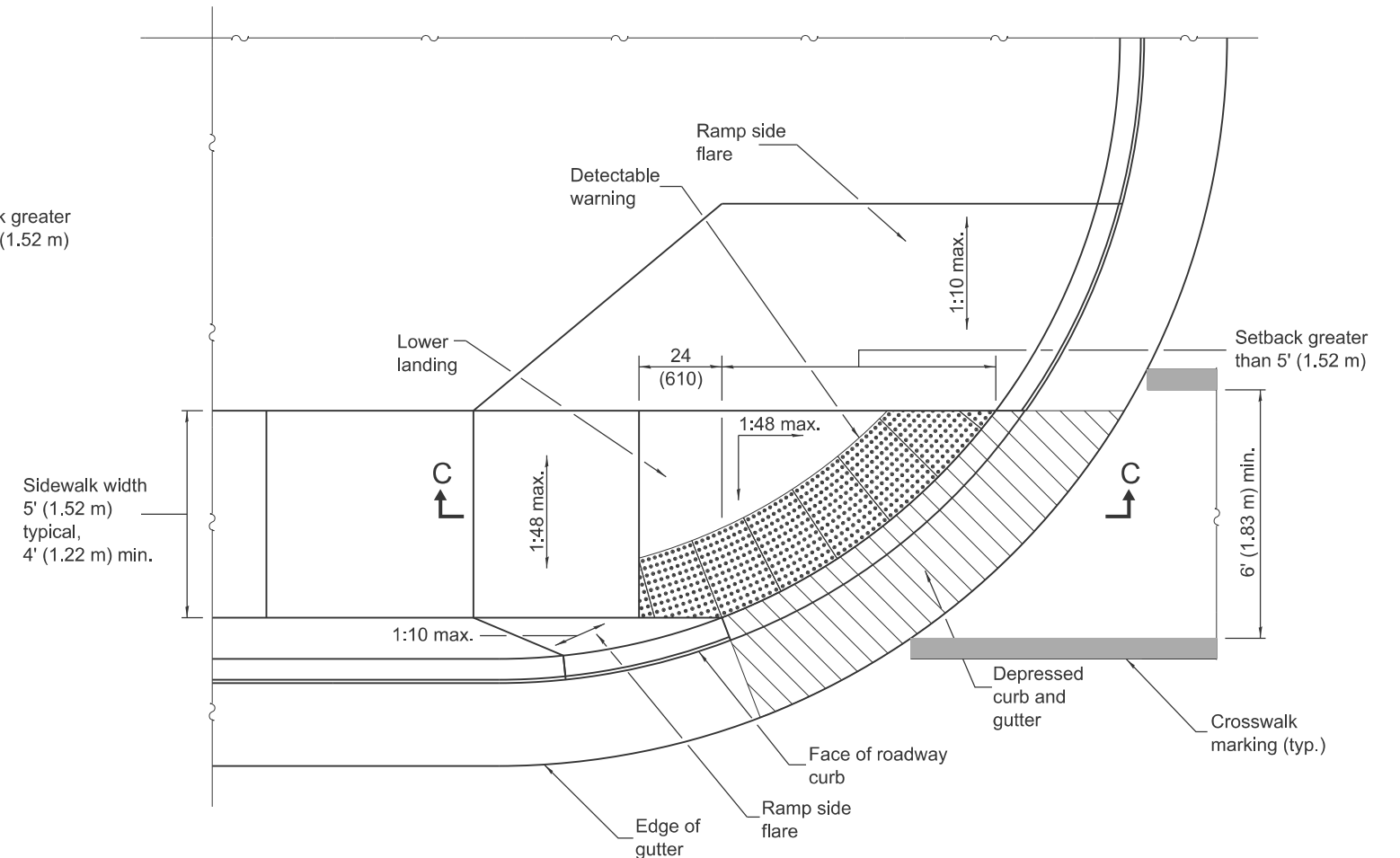


DETAIL A

- ① The running slope of a curb ramp shall be 1:12 max.
The running slope of a blended transition shall be 1:20 max.
- ② Clear Area shall be located outside the travel lane inclusive of any bicycle lanes. The running slope shall be 1:20 max and the cross slope shall be:
 - Signalized/Uncontrolled Intersection - 1:20
 - Yield/Stop Controlled Intersection - 1:48
 - Midblock - grade of the road



**RAMP IN LANDSCAPED AREA
SETBACK > 5'**



**RAMP IN PAVED AREA
SETBACK > 5'**

GENERAL NOTES

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

Where 1:48 maximum slope is shown, 1:64 is preferred.

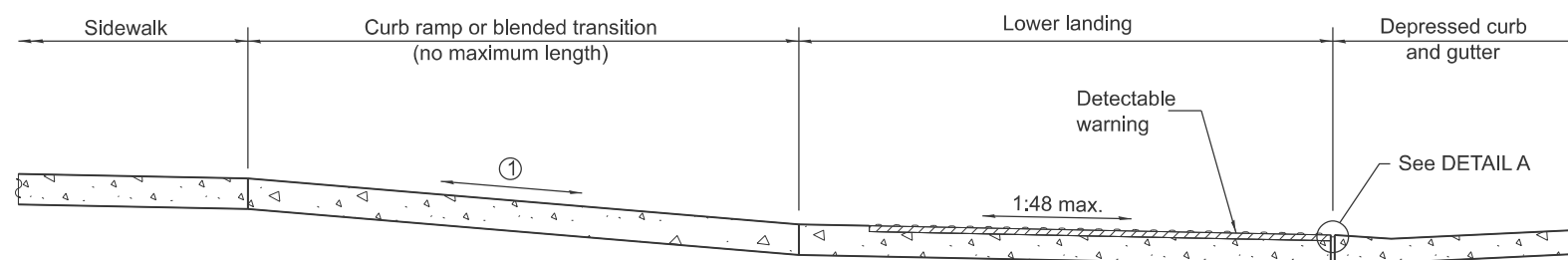
Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

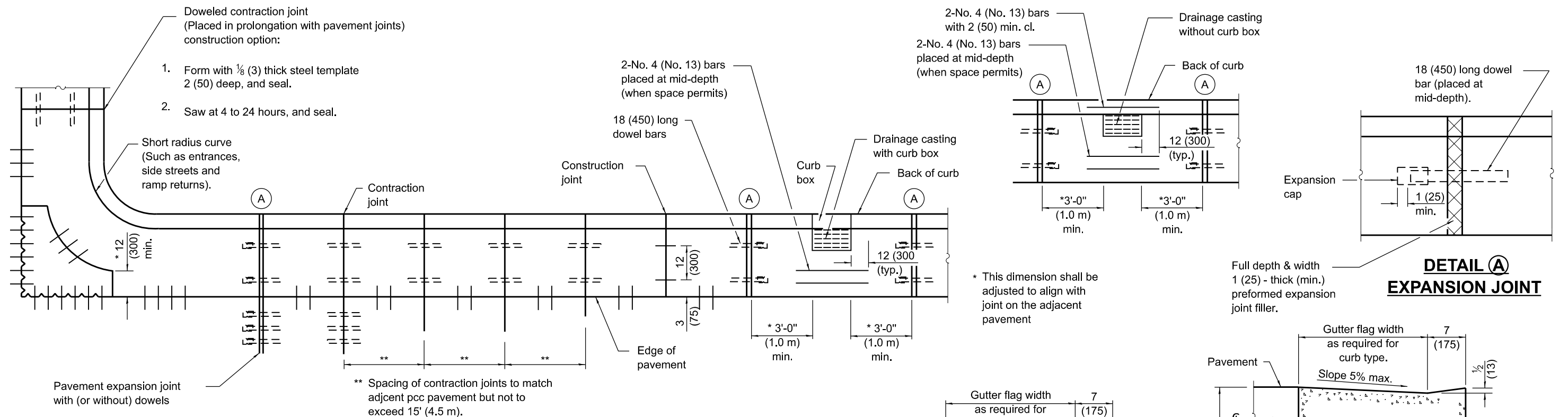
See Standard 606001 for details of depressed curb adjacent to curb ramp.

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

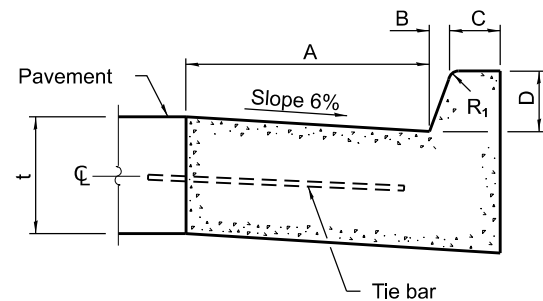


SECTION C-C

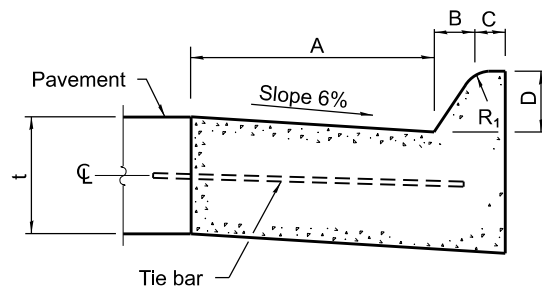
- ① The running slope of a curb ramp shall be 1:12 max. The running slope of a blended transition shall be 1:20 max.



PLAN
ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE



BARRIER CURB

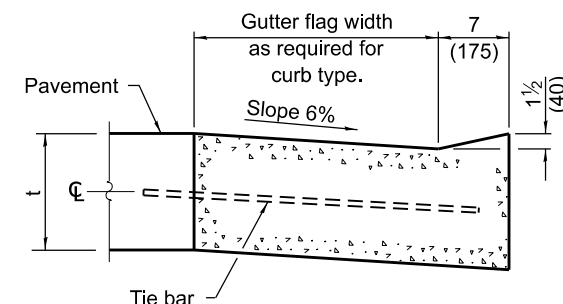


MOUNTABLE CURB

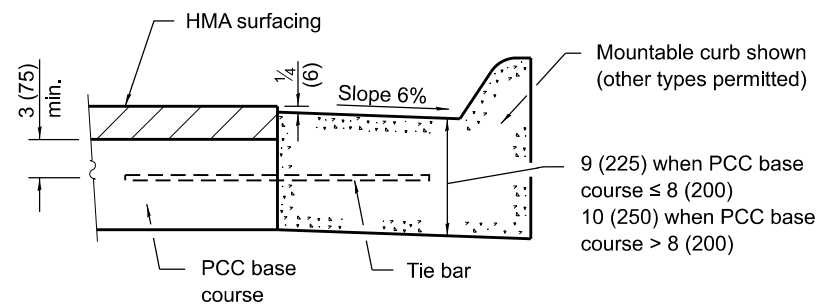
TYPE	A	B	C	D	R ₁
B-6.06 *	6	1	6	6	1
(B-15.15)	(150)	(25)	(150)	(150)	(25)
B-6.12	12	1	6	6	1
(B-15.3)	(300)	(25)	(150)	(150)	(25)
B-6.18	18	1	6	6	1
(B-15.45)	(450)	(25)	(150)	(150)	(25)
B-6.24	24	1	6	6	1
(B-15.60)	(600)	(25)	(150)	(150)	(25)
B-9.12	12	2	5	9	1
(B-22.30)	(300)	(50)	(125)	(225)	(25)
B-9.18	18	2	5	9	1
(B-22.45)	(450)	(50)	(125)	(225)	(25)
B-9.24	24	2	5	9	1
(B-22.60)	(600)	(50)	(125)	(225)	(25)

* For corner islands only.

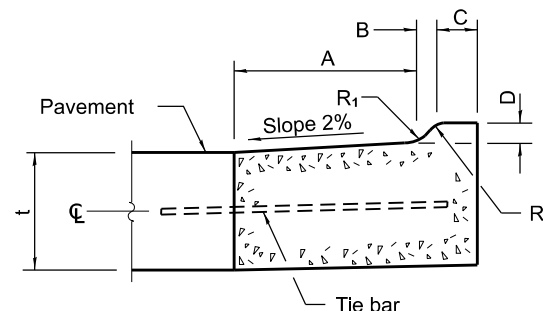
TYPE	A	B	C	D	R ₁	R ₂
M-2.06	6	2	4	2	3	2
(M-5.15)	(150)	(50)	(100)	(50)	(75)	(50)
M-2.12	12	2	4	2	3	2
(M-5.30)	(300)	(50)	(100)	(50)	(75)	(50)
M-4.06	6	4	3	4	3	NA
(M-10.15)	(150)	(100)	(75)	(100)	(75)	NA
M-4.12	12	4	3	4	3	NA
(M-10.30)	(300)	(100)	(75)	(100)	(75)	NA
M-4.18	18	4	3	4	3	NA
(M-10.45)	(450)	(100)	(75)	(100)	(75)	NA
M-4.24	24	4	3	4	3	NA
(M-10.60)	(600)	(100)	(75)	(100)	(75)	NA
M-6.06	6	6	2	6	2	NA
(M-15.15)	(150)	(150)	(50)	(150)	(50)	NA
M-6.12	12	6	2	6	2	NA
(M-15.30)	(300)	(150)	(50)	(150)	(50)	NA
M-6.18	18	6	2	6	2	NA
(M-15.45)	(450)	(150)	(50)	(150)	(50)	NA
M-6.24	24	6	2	6	2	NA
(M-15.60)	(600)	(150)	(50)	(150)	(50)	NA



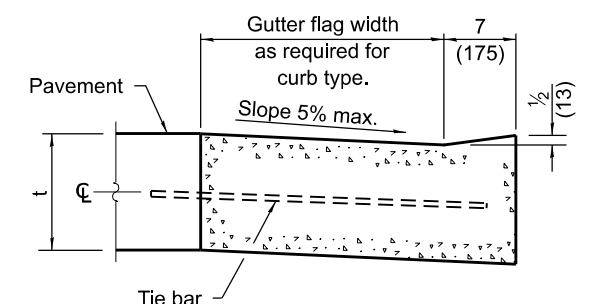
DEPRESSED CURB (TYPICAL)



**ADJACENT TO PCC BASE COURSE
WITH HMA SURFACING**



M-2.06 (M-5.15) and M-2.12 (M-5.30)



**DEPRESSED CURB ADJACENT
TO CURB RAMP ACCESSIBLE
TO THE DISABLED**

GENERAL NOTES

The bottom slope of combination curb and gutter constructed adjacent to pcc pavement shall be the same slope as the subbase or 6% when subbase is omitted.

t = Thickness of pavement.

Longitudinal joint tie bars shall be No. 6 (No. 19) at 36 (900) centers in accordance with details for longitudinal construction joint shown on Standard 420001.

A minimum clearance of 2 (50) between the end of the tie bar and the back of the curb shall be maintained.

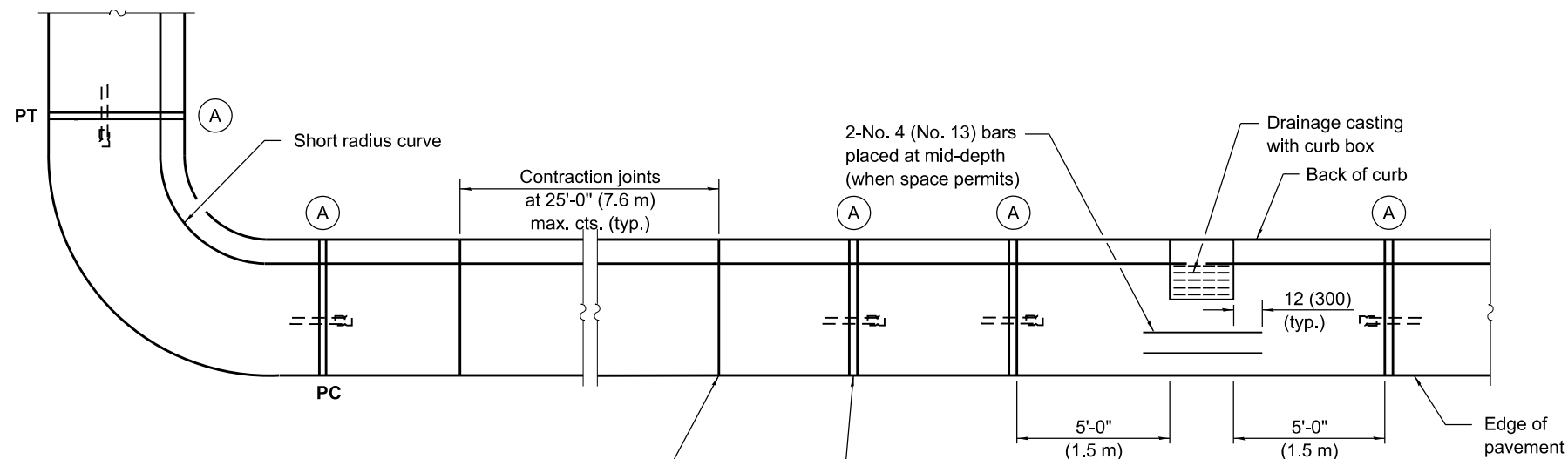
The dowel bars shown in contraction joints will only be required for monolithic construction.

See Standard 606301 for details of corner islands.

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

DATE	REVISIONS
1-1-22	Revised contract joint spacing adjacent to pcc pavement.
1-1-18	Revised General Note for tie bar spacing to 36 (900) cts.

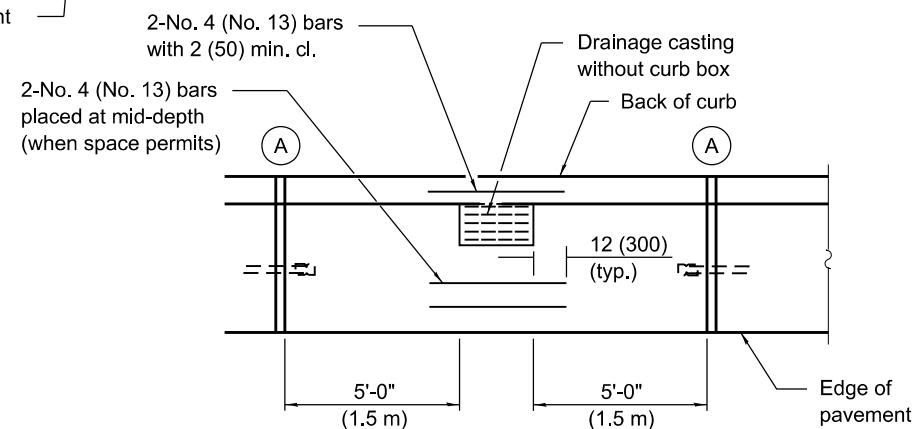
CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER (Sheet 1 of 2)
STANDARD 606001-08



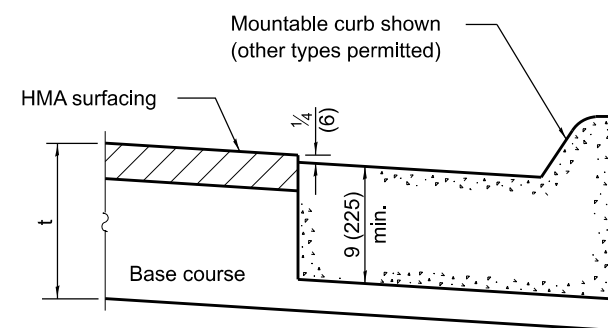
Undoweled contraction joint (typ.) construction options:

1. Form with $\frac{1}{8}$ (3) thick steel template 2 (50) deep, and seal.
2. Saw 2 (50) deep at 4 to 24 hours, and seal.
3. Insert $\frac{3}{4}$ (20) thick preformed joint filler full depth and width.

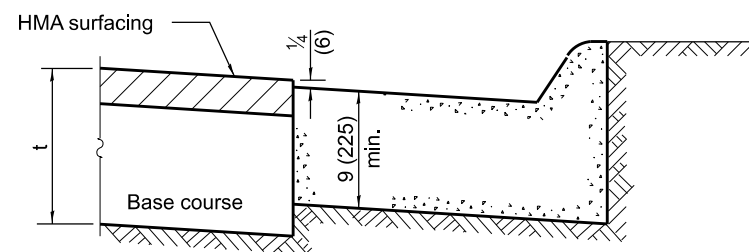
Construction joint



PLAN

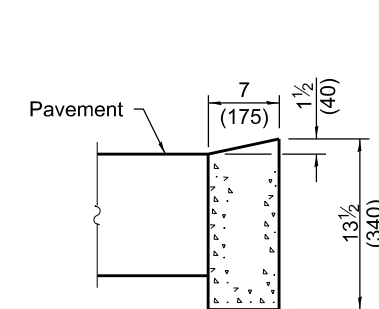


ON DISTURBED SUBGRADE

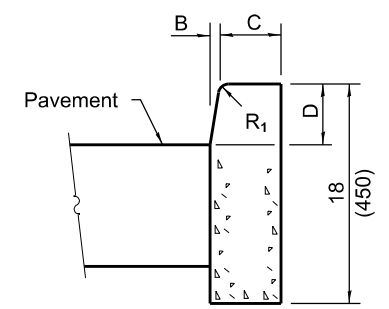


ON UNDISTURBED SUBGRADE

ADJACENT TO FLEXIBLE PAVEMENT

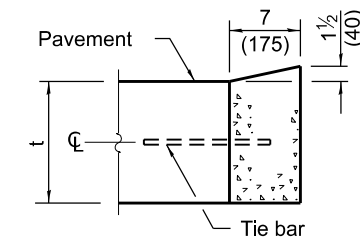


DEPRESSED CURB

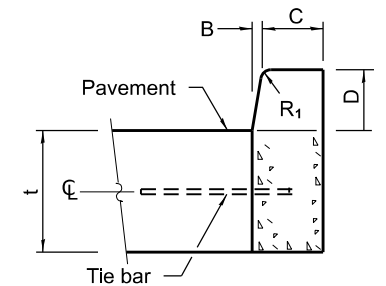


BARRIER CURB

ADJACENT TO FLEXIBLE PAVEMENT



DEPRESSED CURB



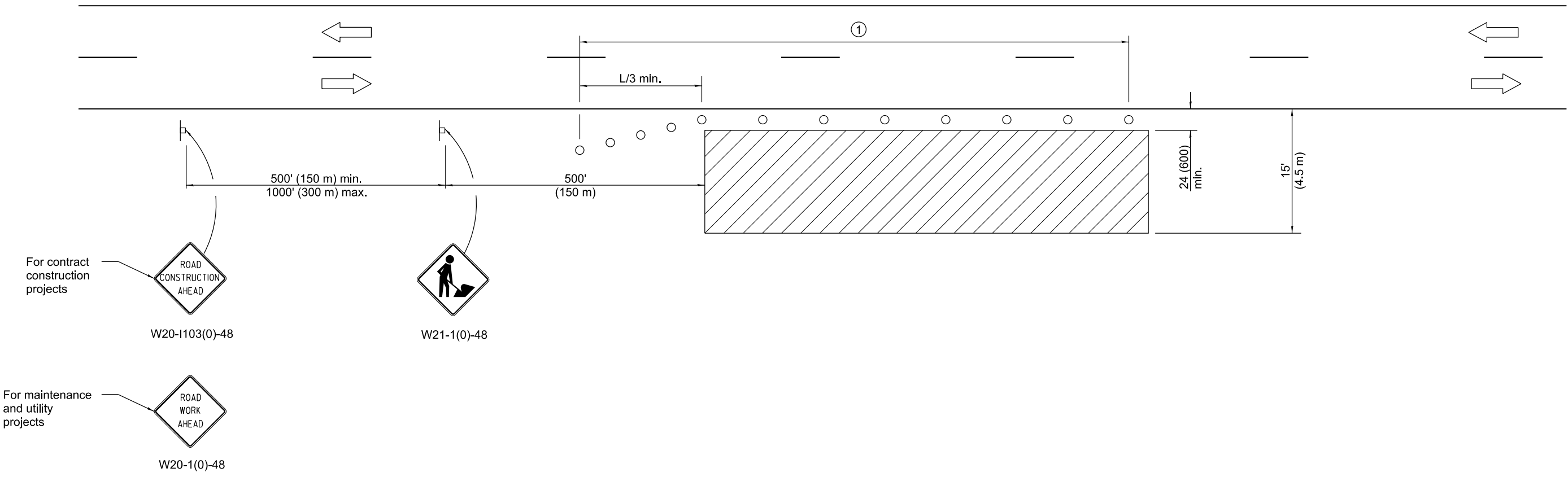
BARRIER CURB

ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

CONCRETE CURB TYPE B

**CONCRETE CURB TYPE B
AND COMBINATION
CONCRETE CURB AND GUTTER**
(Sheet 2 of 2)




STANDARD 606001-08



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

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.

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

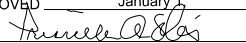
**OFF-RD OPERATIONS, 2L, 2W,
15' (4.5 m) TO 24" (600 mm)
FROM PAVEMENT EDGE**

STANDARD 701006-05



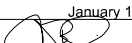
Illinois Department of Transportation

APPROVED January 1, 2014



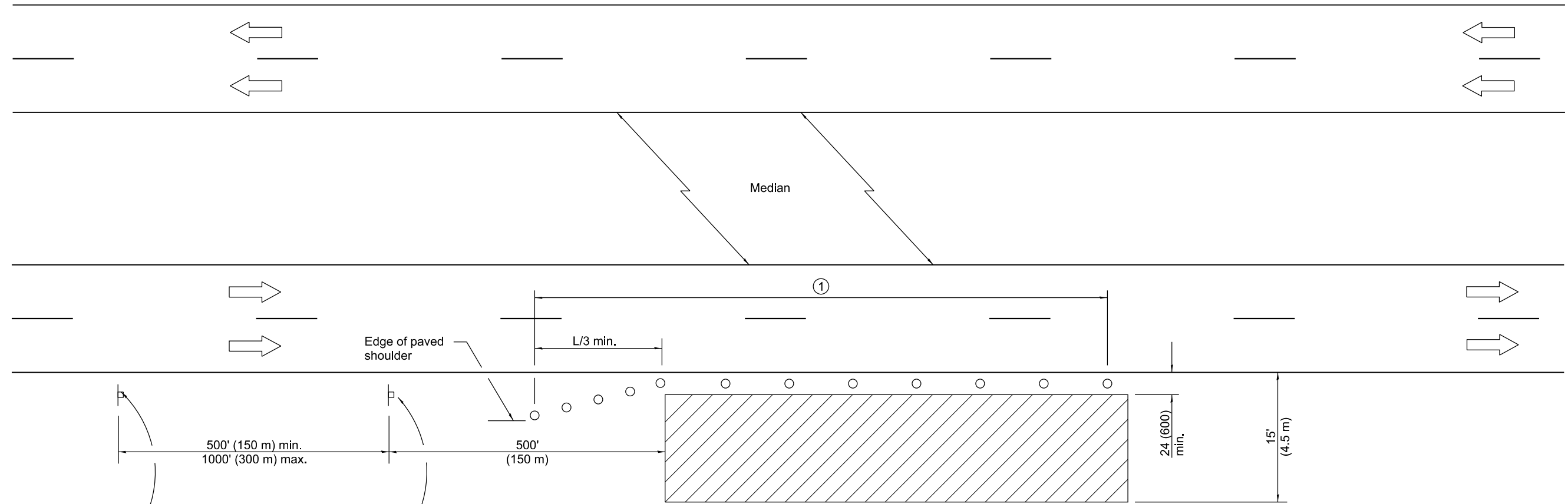
ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2014



ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



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

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.

SYMBOLS

- Work area
- Sign
- Cone, drum or barricade

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

APPROVED January 1, 2016

ENGINEER OF SAFETY ENGINEERING

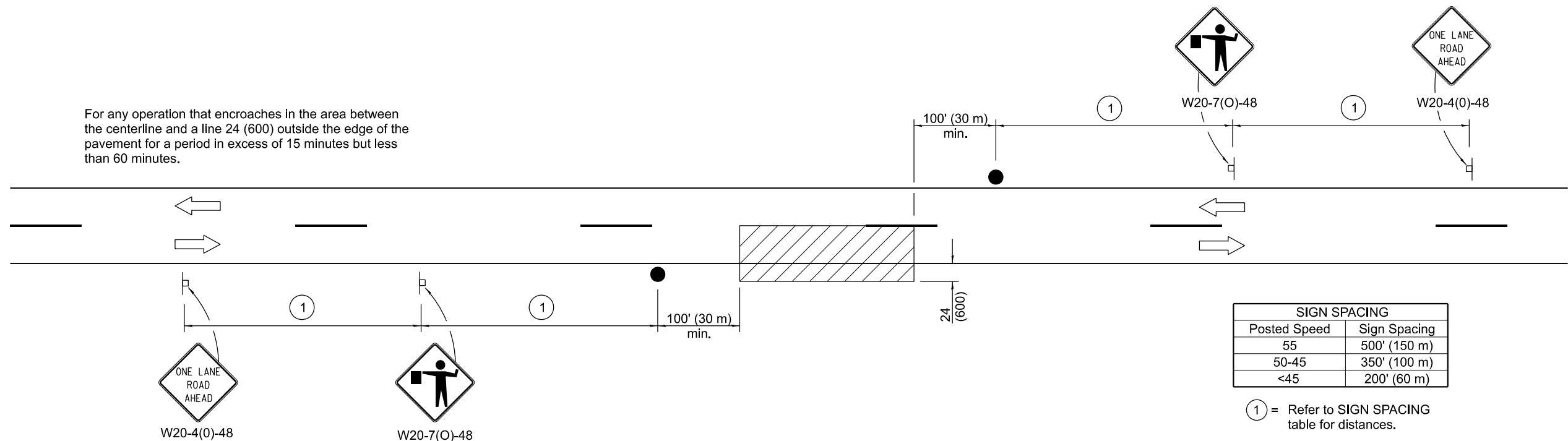
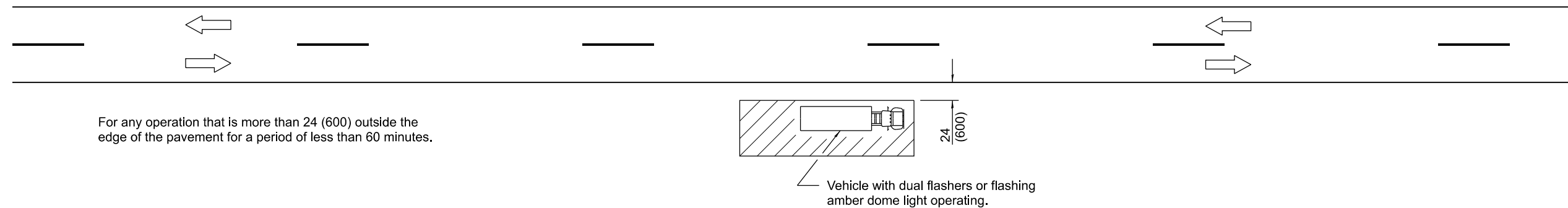
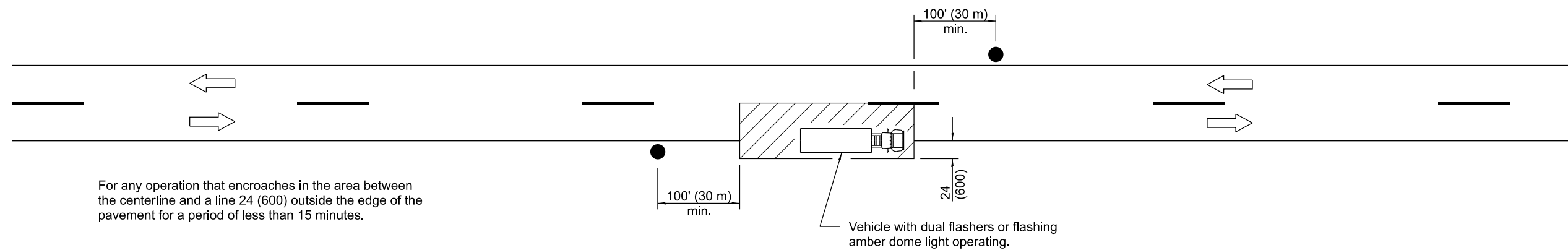
APPROVED January 1, 2016

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
4-1-16	Corrected typo in title.
1-1-14	Revised workers sign number to agree with current MUTCD.

OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE	
	STANDARD 701101-05



TYPICAL APPLICATIONS

Marking patches
Field survey
String line
Utility operations
Cleaning up debris on pavement

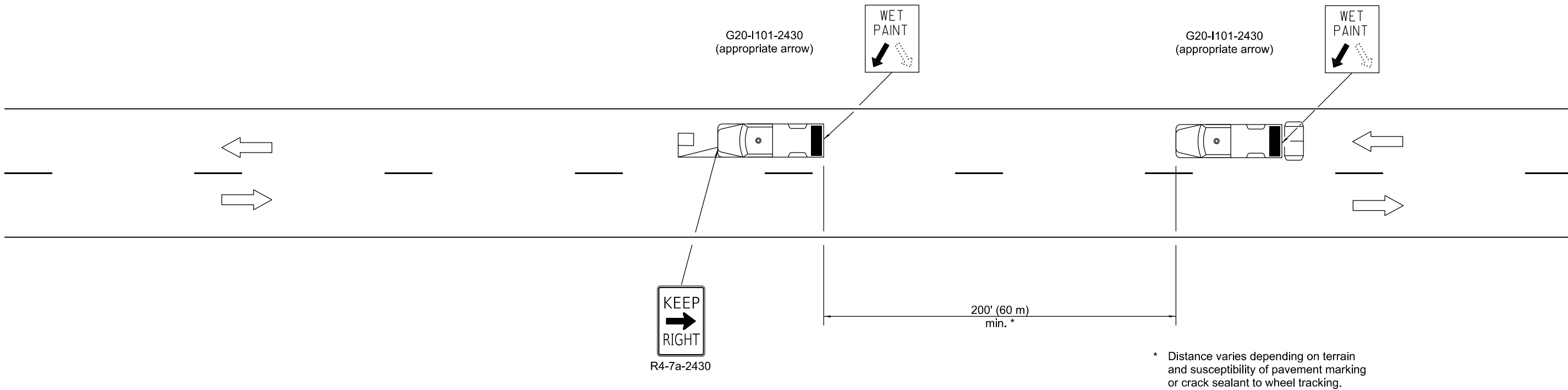
SYMBOLS

- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

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

Illinois Department of Transportation	
APPROVED January 1, 2011	ISSUED 1-1-97
ENGINEER OF SAFETY ENGINEERING	
APPROVED January 1, 2011	
ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
1-1-11	Revised flagger sign.	
1-1-09	Switched units to English (metric).	STANDARD 701301-04



TYPICAL APPLICATIONS

- Landscaping work
- Utility work
- Pavement marking
- Weed spraying
- Roadometer measurements
- Debris cleanup
- Crack pouring

SYMBOLS

- Arrow board (Hazard Mode only)
- Truck with headlights, emergency flashers and flashing amber light. (visible from all directions)
- 18 x 18 (450x450) min. orange flag (use when guide wheel is used)
- Truck mounted attenuator

GENERAL NOTES

This Standard is used where any vehicle, equipment, workers or their activities will require a continuous moving operation where the average speed is greater than 3 mph (5 km/h).

For shoulder operations not encroaching on the pavement, use DETAIL A, Standard 701426.

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

DATE	REVISIONS	LANE CLOSURE 2L, 2W MOVING OPERATIONS- DAY ONLY
1-1-09	Switched units to English (metric).	
	Omitted Pass With Care sign.	
1-1-00	Eliminated speed restrictions	STANDARD 701311-03
	in Standard title.	

Illinois Department of Transportation

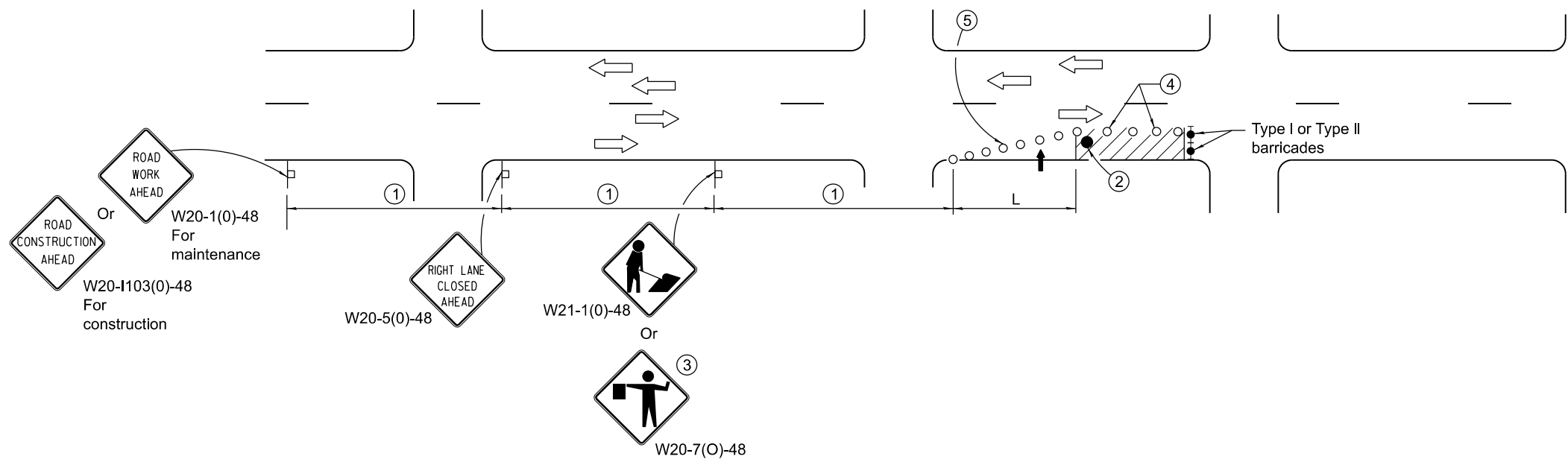
APPROVED January 1, 2009

ENGINEER OF OPERATIONS

APPROVED January 1, 2009

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



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

SYMBOLS

- ↑ Arrow board
- Cone, drum or barricade
- ⌋ Sign on portable or permanent support
- ▨ Work area
- Barricade or drum with flashing light
- Flagger with traffic control sign.

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph.
- ③ Use flagger sign only when flagger is present.
- ④ 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.
- ⑤ Cones, drums or barricades at 20' (6 m) centers in taper.

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.

Calculate L as follows:

SPEED LIMIT

40 mph (70 km/h) or less:

45 mph (80 km/h) or greater:

W = Width of offset in feet (meters).

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

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

FORMULAS

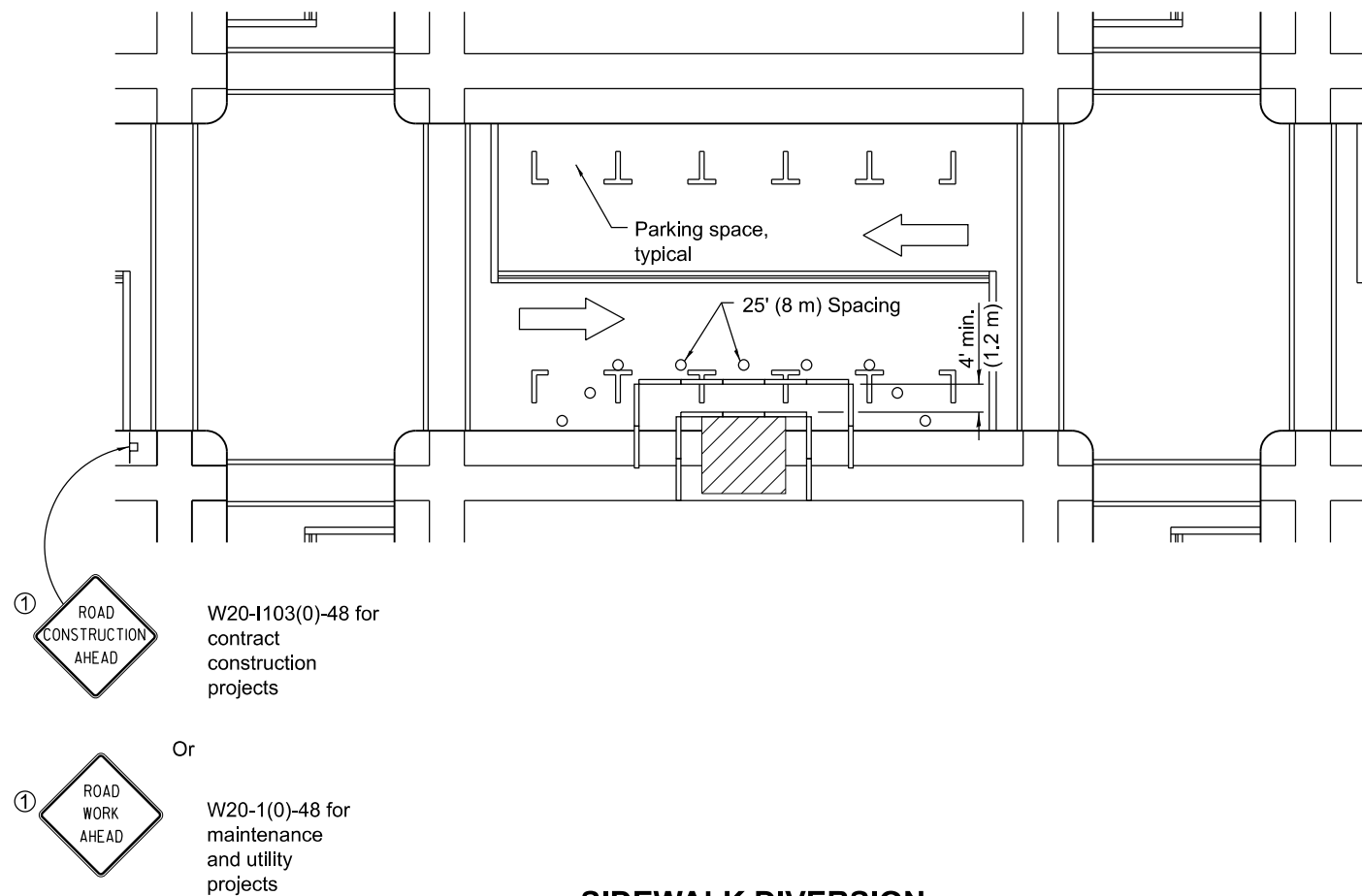
English (Metric)

$$L = \frac{WS^2}{60} \quad L = \frac{WS^2}{150}$$

$$L = (W)(S) \quad L = 0.65(W)(S)$$

DATE	REVISIONS
1-1-15	Renamed standard. Moved case on Sheet 2 to new Highway Standard.
1-1-14	Revised workers sign number to agree with current MUTCD.

URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
STANDARD 701606-10



① Omit whenever duplicated by road work traffic control.

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

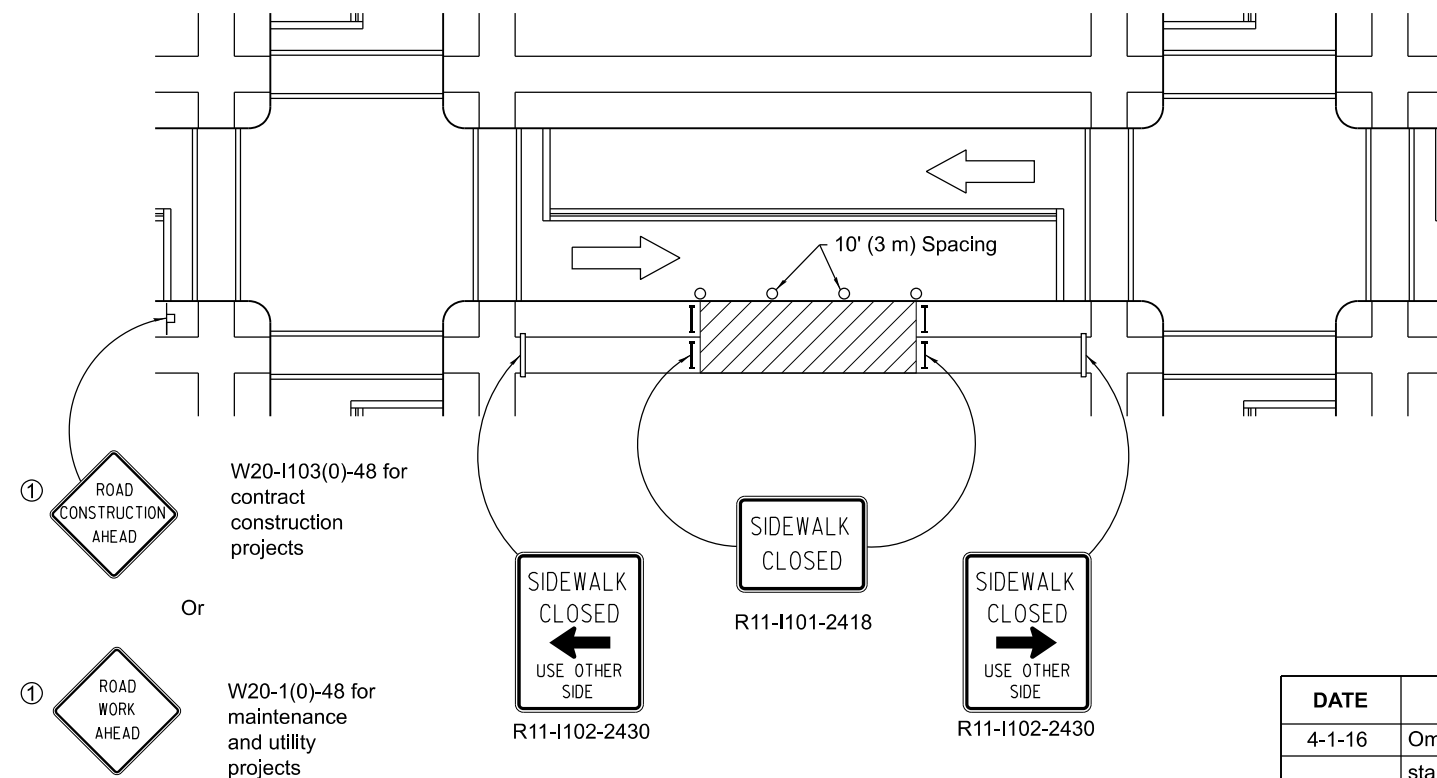
The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

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

SYMBOLS

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade
- Detectable pedestrian channelizing barricade



SIDEWALK CLOSURE

DATE	REVISIONS
4-1-16	Omitted orange safety fence from standard as this is covered in the standard spec.
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of plan views.
	Renamed Standard.

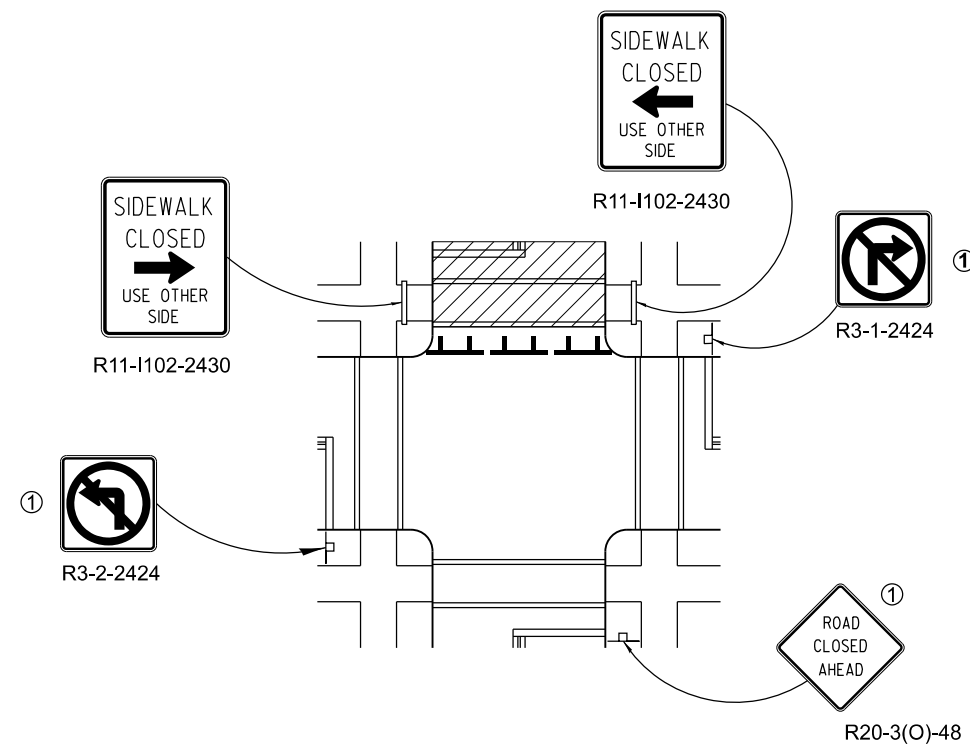
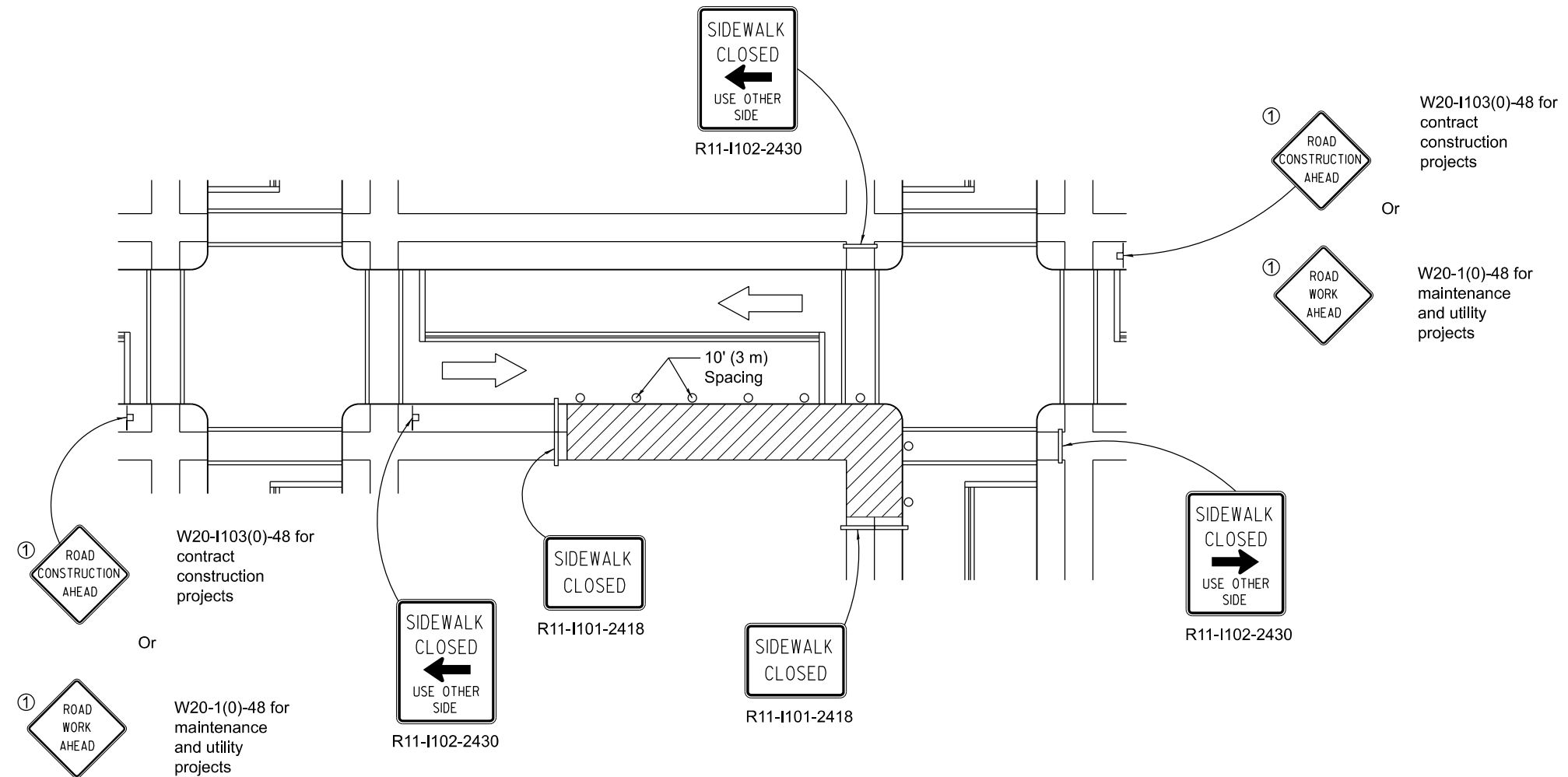
SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

STANDARD 701801-06

	Illinois Department of Transportation
APPROVED	January 1, 2016
	ENGINEER OF SAFETY ENGINEERING
APPROVED	January 1, 2016
	ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



Orange
Posted speed < 45 mph

Orange
Any posted speed

DAYTIME USE

Orange
Any posted speed

Orange
Any posted speed

DAY OR NIGHTTIME USE

3 (75)
min.

3 (75)
min.

TUBULAR MARKER

4' (1.2 m)
min.

4' (1.2 m)
min.

VERTICAL PANEL
POST MOUNTED

36 (900)
18 (450)
min.

36 (900)
18 (450)
min.

DRUM

36 (900)
min.

36 (900)
min.

TYPE I BARRICADE

36 (900)
min.

36 (900)
min.

TYPE II BARRICADE

5' (1.5 m)
min.

5' (1.5 m)
min.

TYPE III BARRICADE

36 (900)
24 (600)

36 (900)
24 (600)

DIRECTION INDICATOR
BARRICADE

36 (900)
12 (300)

36 (900)
12 (300)

VERTICAL BARRICADE

36 (900)
min.

36 (900)
min.

DETECTABLE PEDESTRIAN
CHANNELIZING BARRICADE

* Warning lights (if required)

Illinois Department of Transportation

APPROVED January 1, 2025

ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2025

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

DATE

REVISIONS

1-1-25

Updated Temporary Rumble Strip Detail (sht. 3).

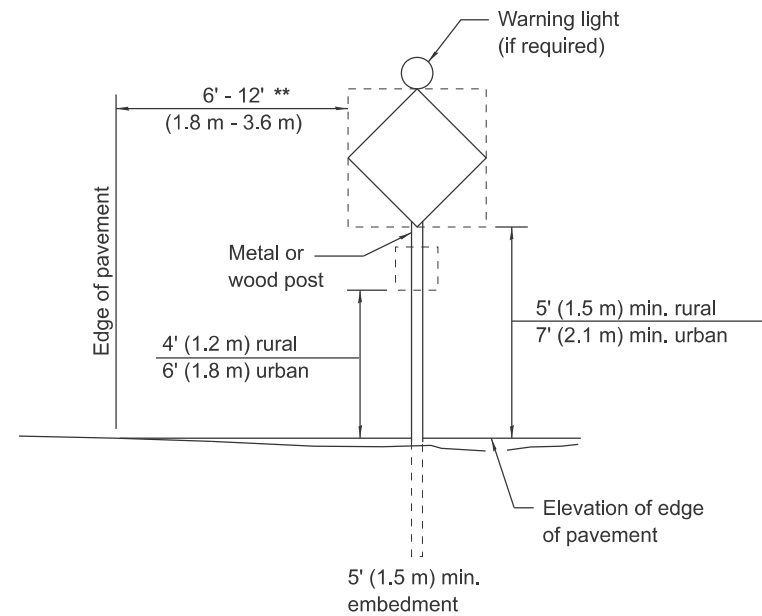
1-1-24

Revised Type III Barricade notes (sht. 3) & moved warning light on post mounted signs to top center.

TRAFFIC CONTROL
DEVICES

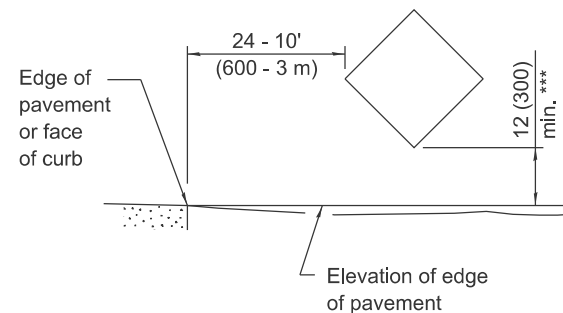
(Sheet 1 of 3)

STANDARD 701901-10



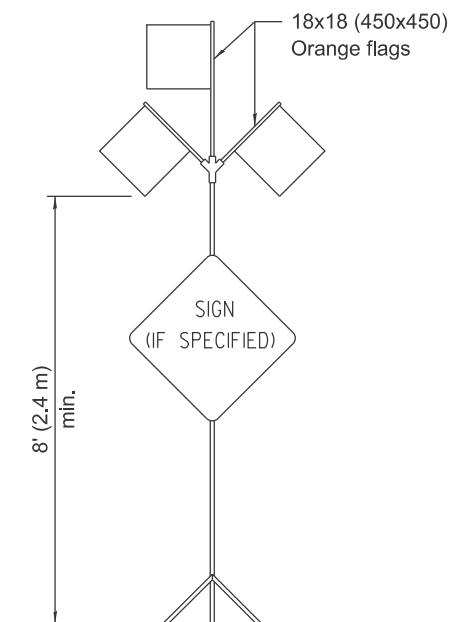
POST MOUNTED SIGNS

****** 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.

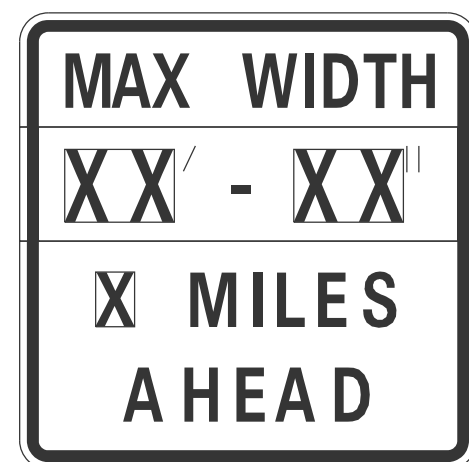


SIGNS ON TEMPORARY SUPPORTS

*** 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.



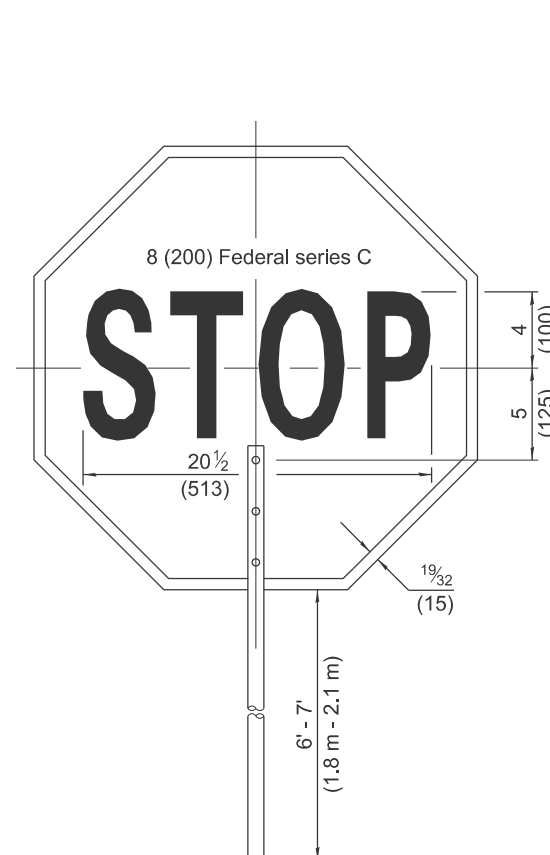
HIGH LEVEL WARNING DEVICE



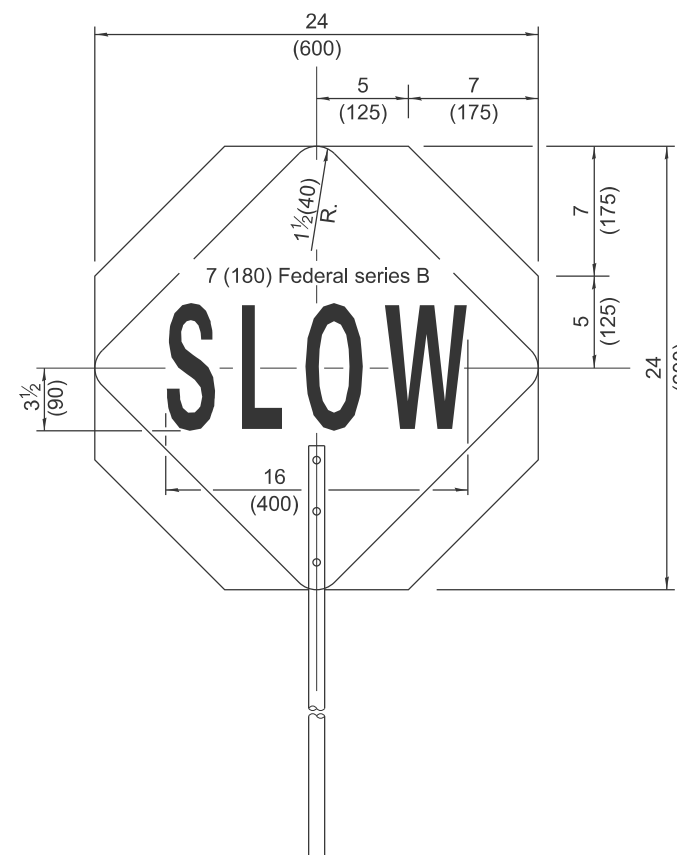
W12-I103-4848

WIDTH RESTRICTION SIGN

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



FRONT SIDE



REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN



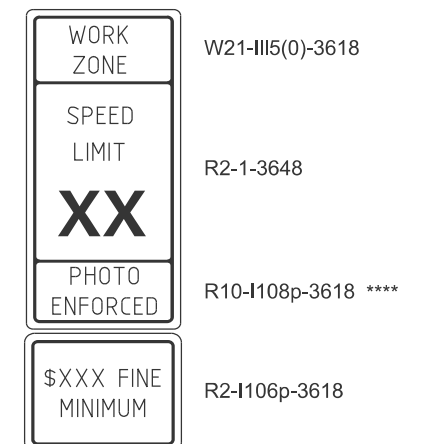
This signing is required for all projects 2 miles (3200 m) or more in length.

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



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



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

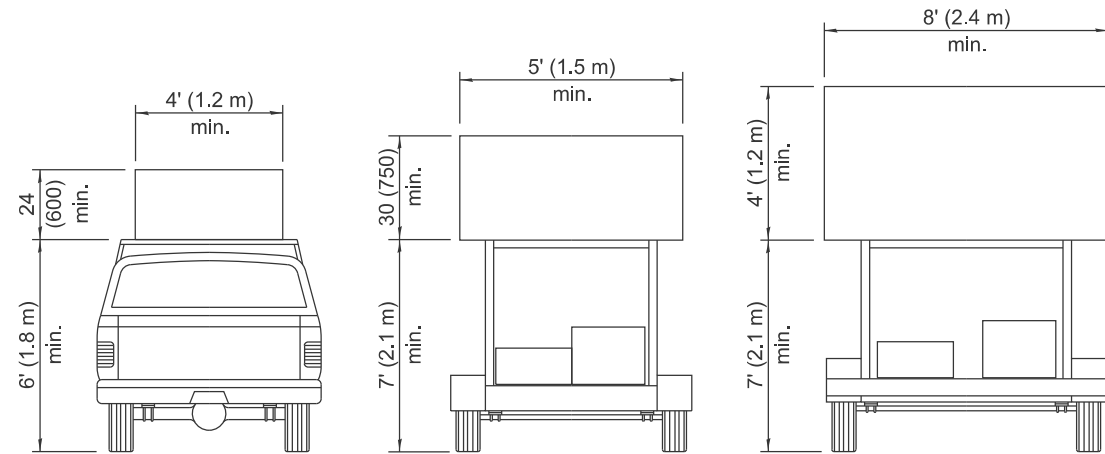
HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

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

TRAFFIC CONTROL DEVICES

Sheet 2 of 3)

STANDARD 701901-10

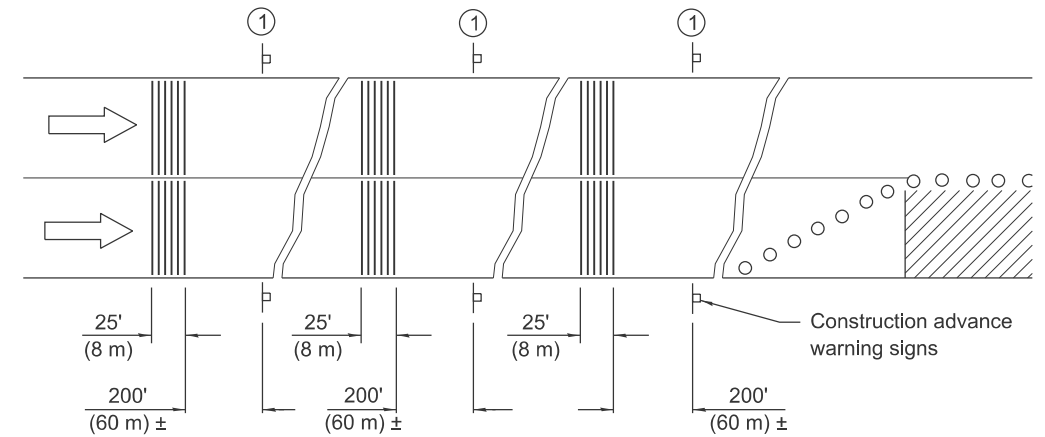


**TYPE A
ROOF
MOUNTED**

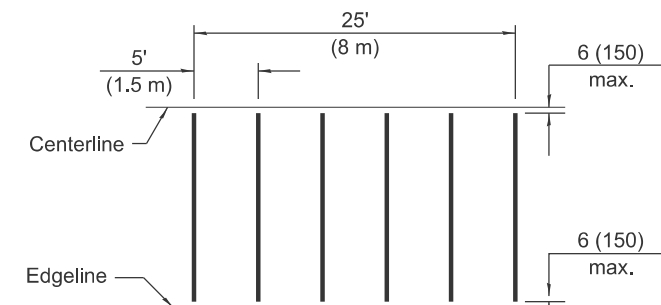
**TYPE B
ROOF OR TRAILER
MOUNTED**

**TYPE C
TRAILER
MOUNTED**

ARROW BOARDS

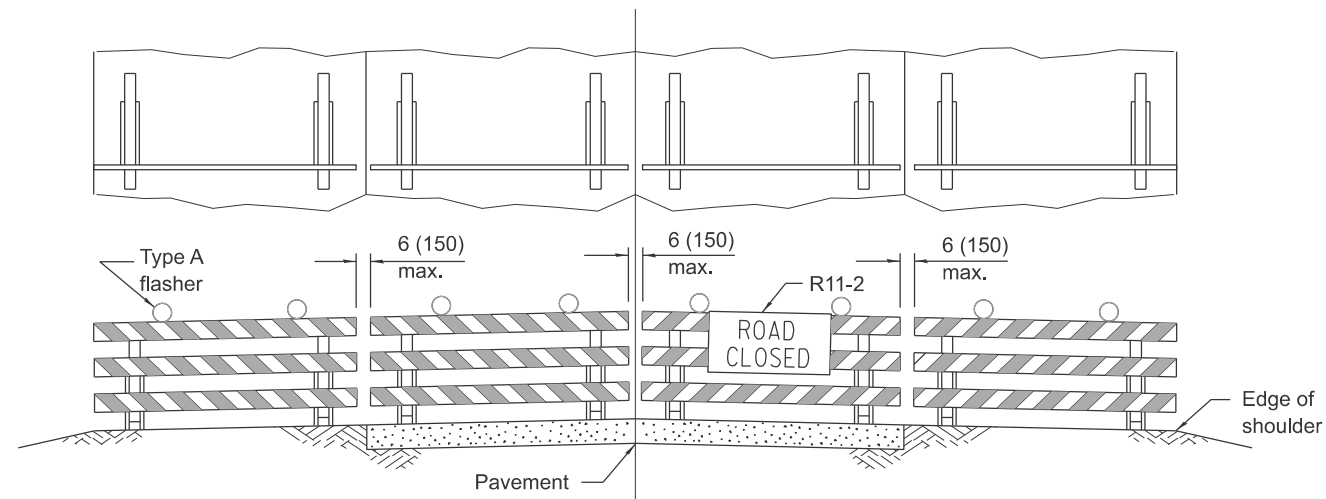


① This sign shall be omitted when median width is less than 10' (3 m).



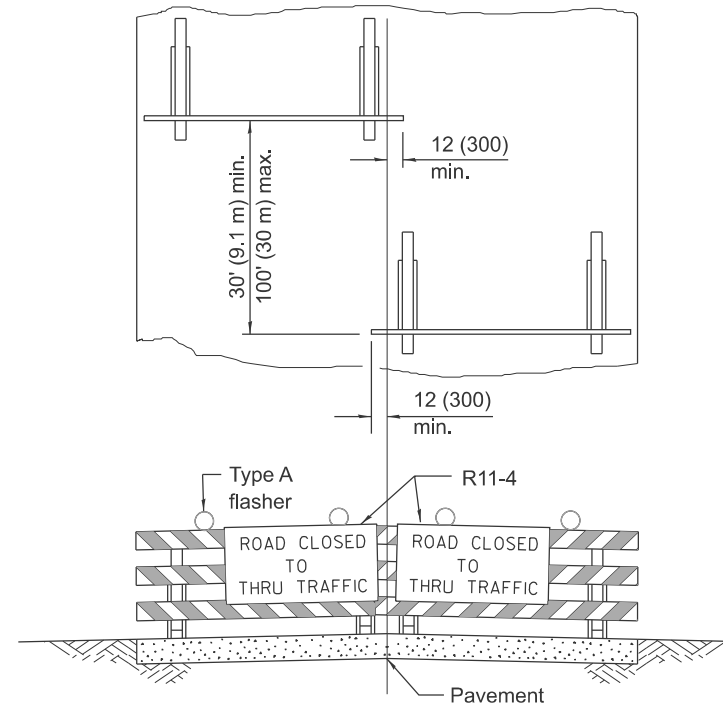
TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC

Reflectorized striping may be omitted on the back side of the barricades.

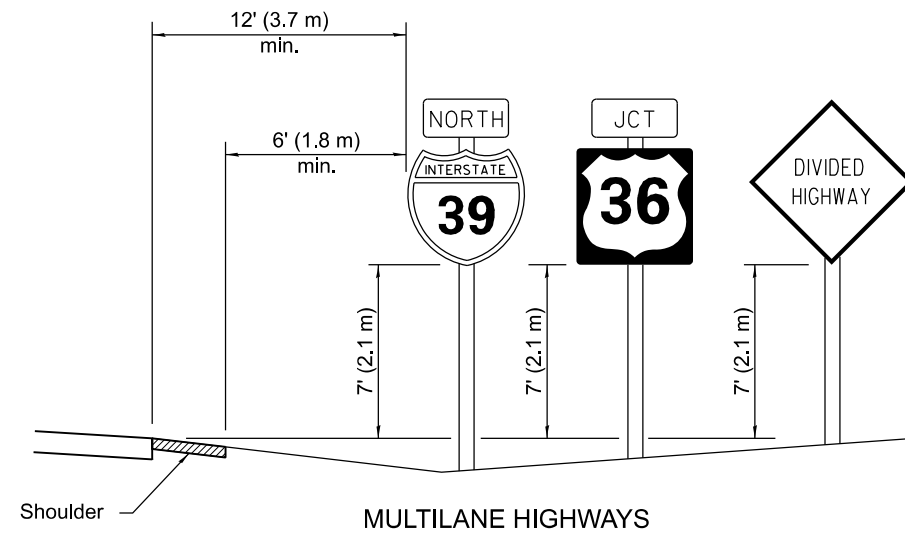


ROAD CLOSED TO THRU TRAFFIC

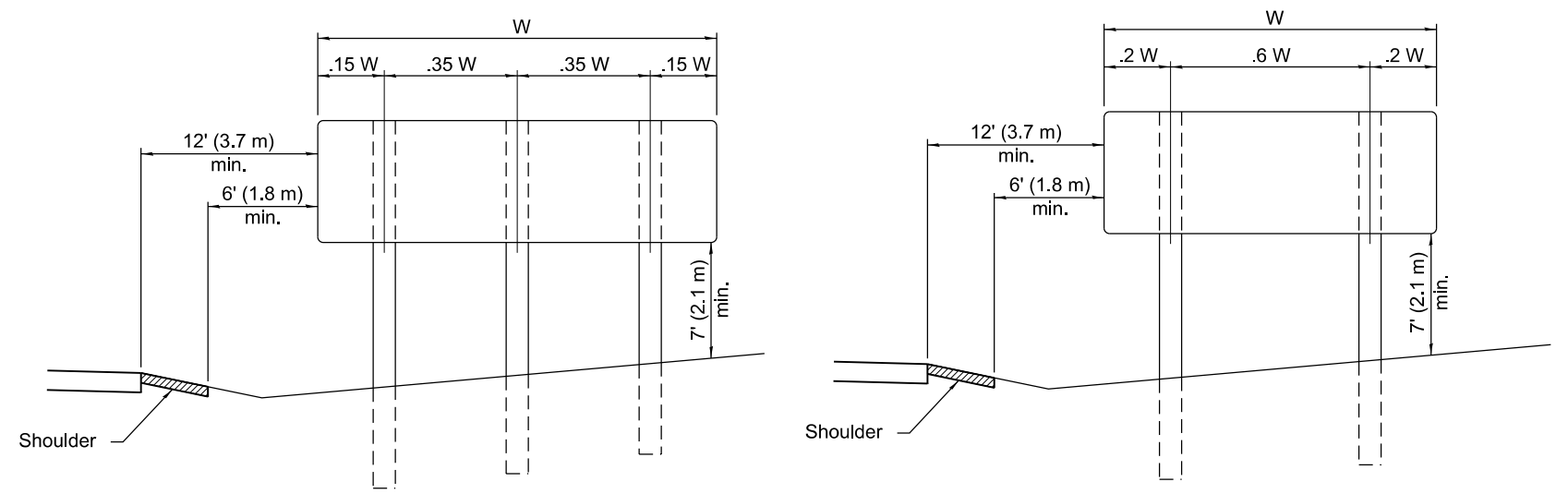
Reflectorized striping shall appear on both sides of the barricades.

**TYPICAL APPLICATIONS OF
TYPE III BARRICADES CLOSING A ROAD**

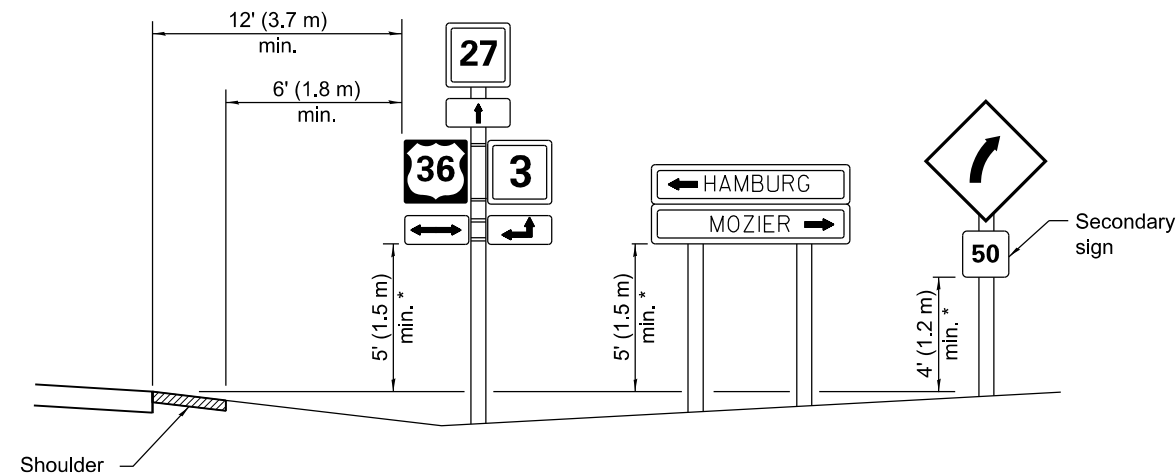
If a Type III barricade with an attached sign panel which meets NCHRP 350 or MASH is not available, the sign may be mounted on an NCHRP 350 or MASH temporary sign support directly in front of the barricade.



MULTILANE HIGHWAYS

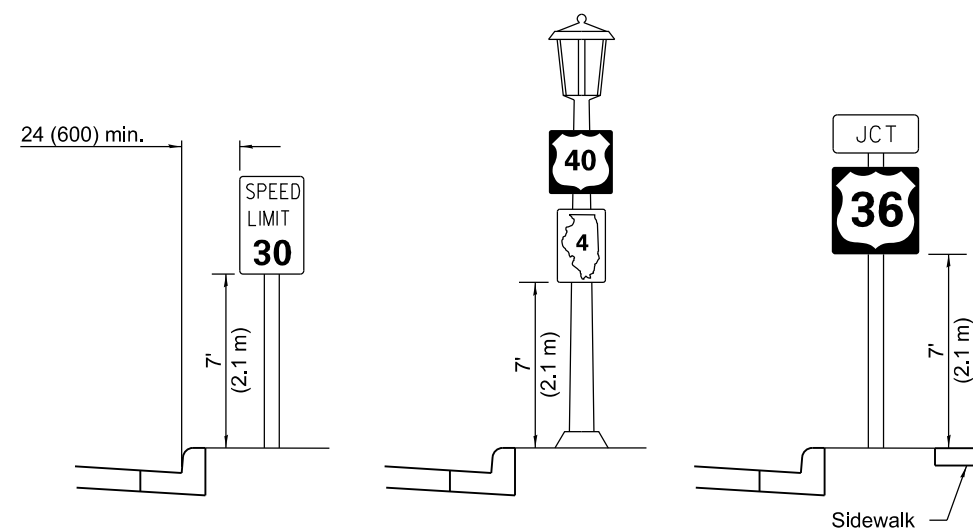


POST SPACING FOR NON-FREEWAY SIGN PANELS

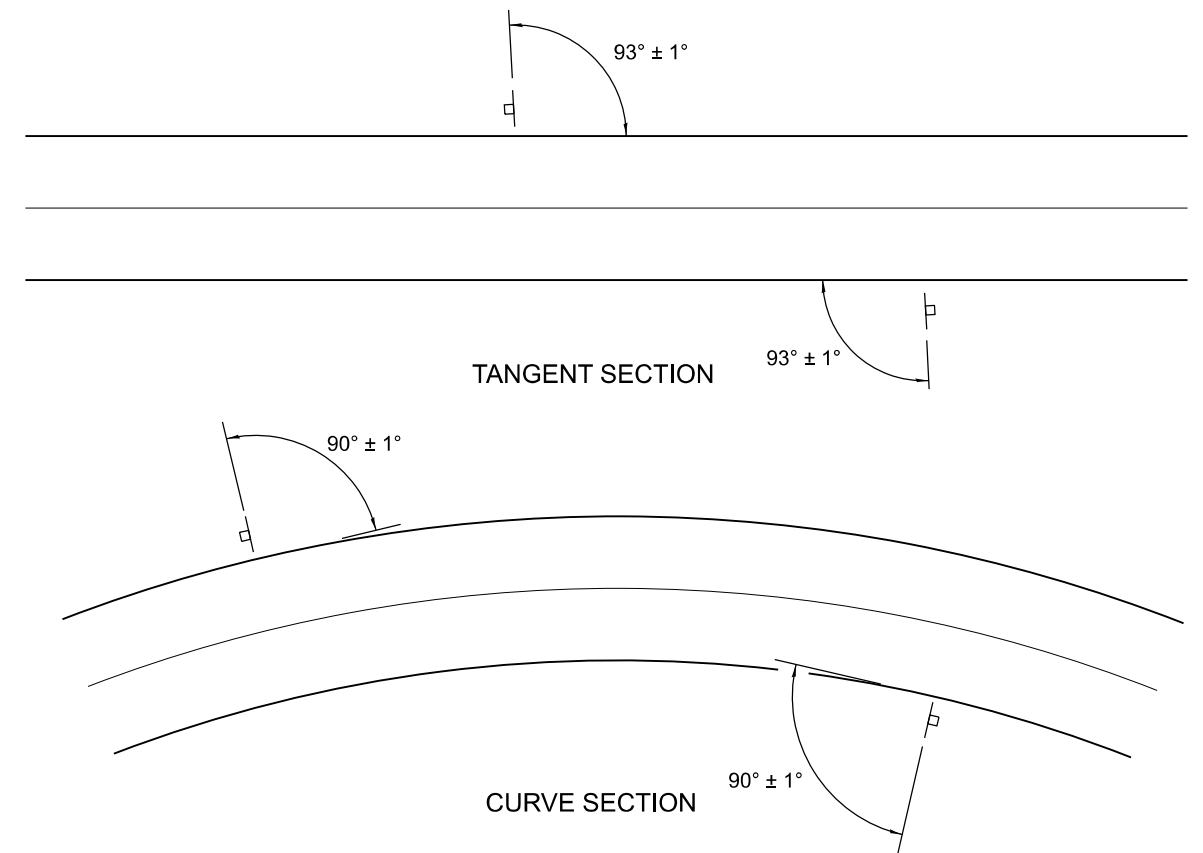


* In any area where parking is likely to occur or where there are obstructions to view or where signs are located over sidewalks, the height shall be at least 7' (2.1 m).

TWO LANE RURAL HIGHWAYS



URBAN LOCATIONS



GROUND MOUNT SIGN POSITIONING

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

Illinois Department of Transportation

APPROVED January 1, 2014
 ENGINEER OF OPERATIONS
 APPROVED January 1, 2014
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

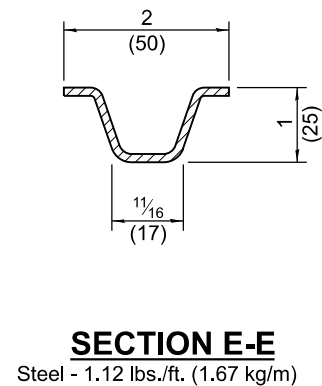
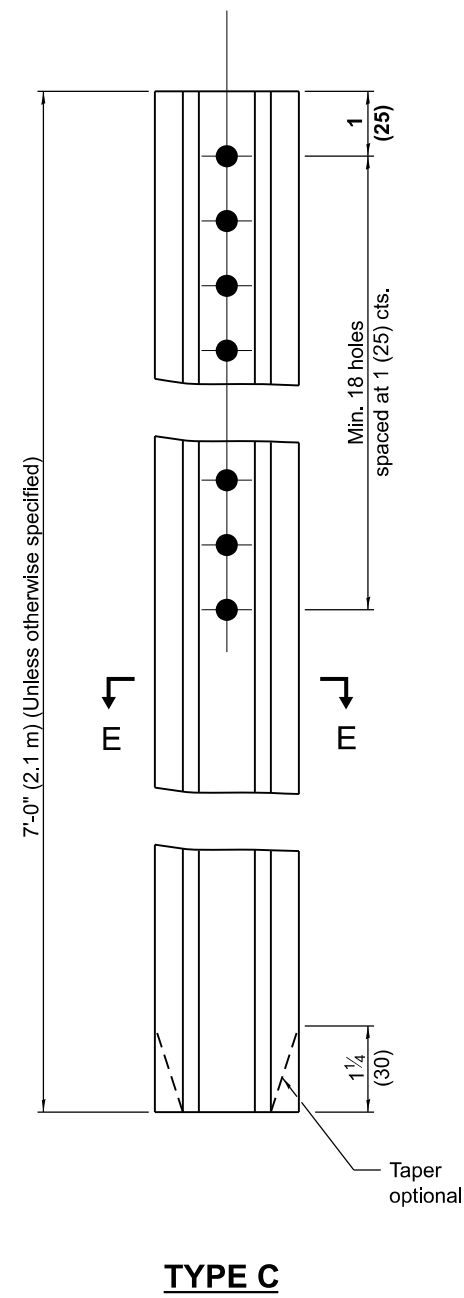
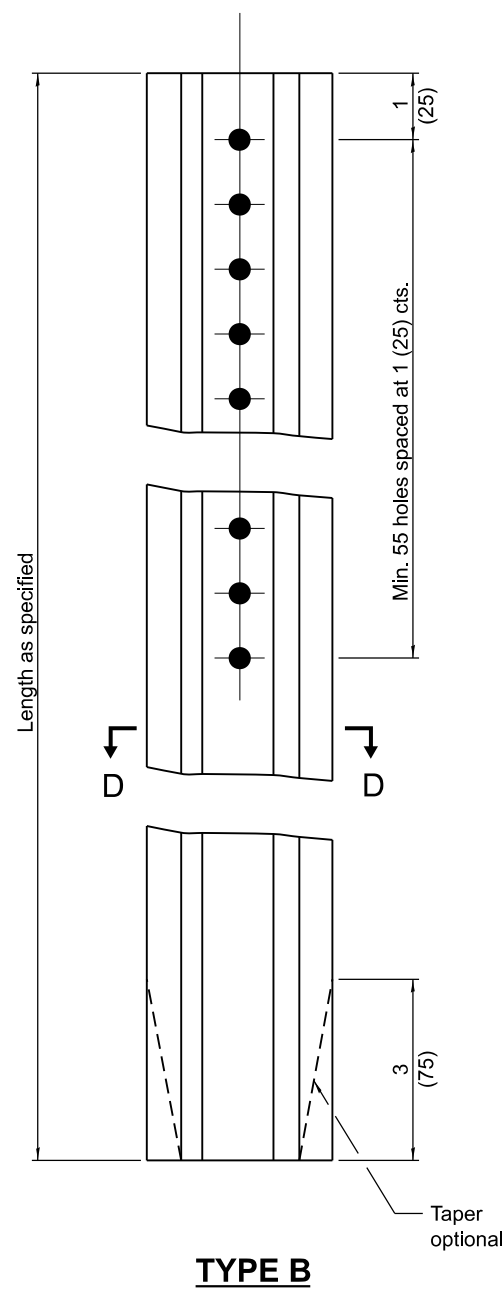
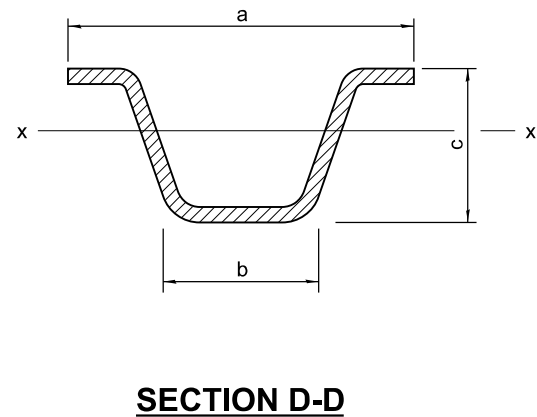
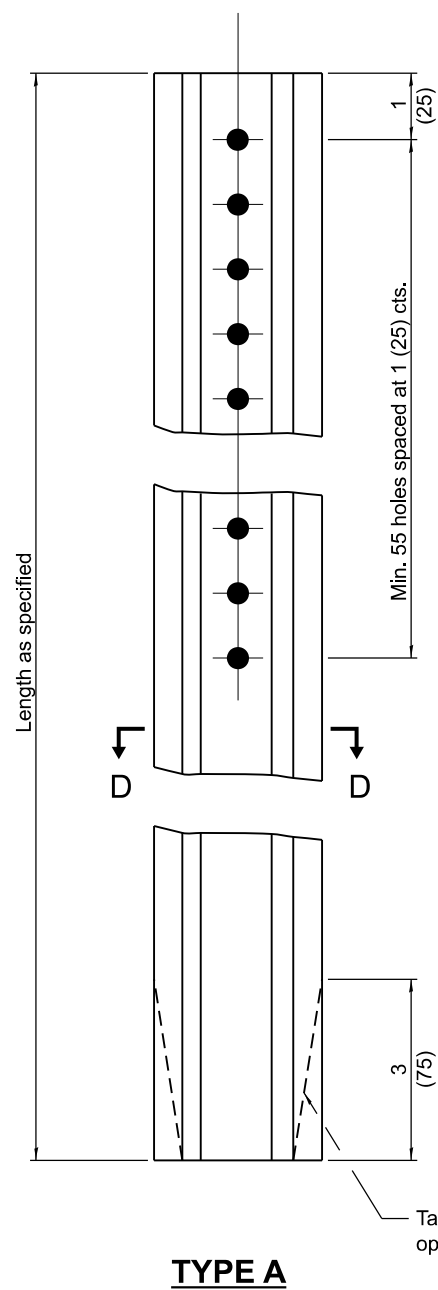
TYPICAL INSTALLATIONS

Signs in any area shall be erected to a uniform height above the edge of the pavement.

DATE	REVISIONS
1-1-14	Added shoulder and slopes. Changed sign distances from roadway and shoulder.
1-1-12	Revised sign elevation for multilane highways. Revised sign elevation and distance to curb for rural location.

SIGN PANEL ERECTION DETAILS

STANDARD 720006-04



		a	b	c	Sx-x in. ³ (mm ³)	lbs./ft. (kg/m)
TYPE A	Steel	3 1/16 (78)	1 1/4 (32)	1 7/16 (37)	0.223 (3,654)	2.00 (2.98)
	Aluminum	3 1/2 (89)	1 5/8 (41)	1 7/8 (48)	0.435 (7,128)	0.90 (1.34)
TYPE B	Steel	3 3/16 (81)	1 1/4 (32)	1 1/2 (38)	0.341 (5,588)	3.00 (4.46)
	Aluminum	4 5/8 (118)	2 1/4 (57)	2 3/8 (60)	0.888 (14,552)	1.30 (1.93)

GENERAL NOTES

Dimensions shown for cross sections are minimum.

All holes are 3/8 (10).

Sx-x is the minimum section modulus about the x-x axis of the post as shown. For posts in which holes are punched or drilled for more than half their length, Sx-x shall be computed for the net section.

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

Illinois Department of Transportation

APPROVED January 1, 2009

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2009

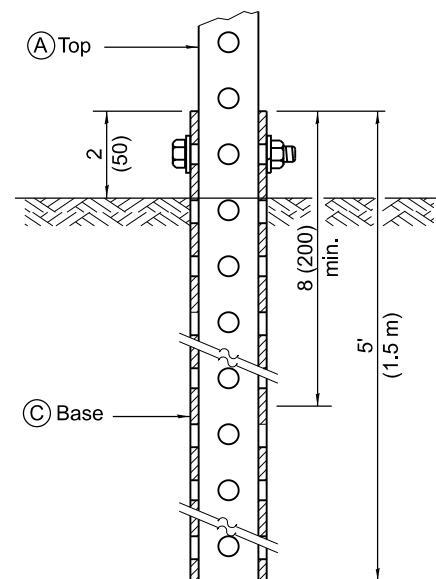
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

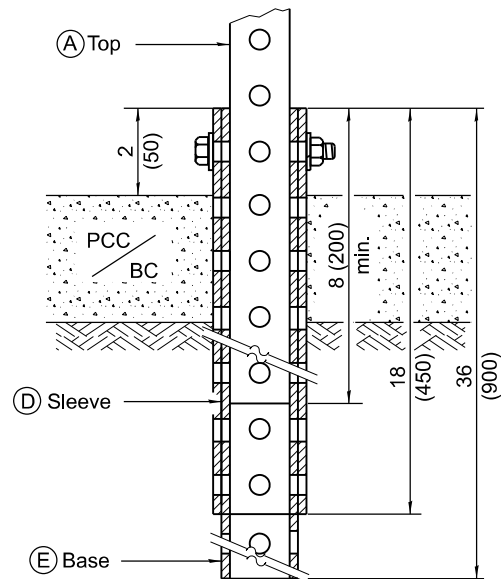
DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-97	Renum. Standard 2350-4.

METAL POSTS FOR SIGNS, MARKERS & DELINEATORS

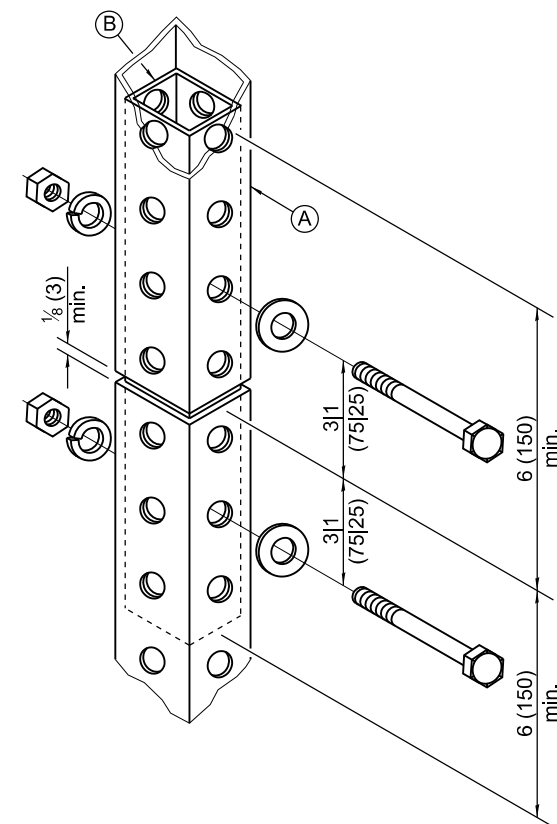
STANDARD 720011-01



GROUND MOUNT DETAIL



PAVEMENT MOUNT DETAIL



SPLICE DETAIL

(A)	2 x 2 x var. (51 x 51 var.)
(B)	1 $\frac{3}{4}$ x 1 $\frac{3}{4}$ x 12 (44 x 44 x 300)
(C)	2 $\frac{1}{4}$ x 2 $\frac{1}{4}$ x 60 (57 x 57 x 1500)
(D)	2 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x 18 (64 x 64 x 450)
(E)	2 $\frac{1}{4}$ x 2 $\frac{1}{4}$ x 36 (57 x 57 x 900)

GENERAL NOTES

All bolts $\frac{3}{8}$ (M10) hex head zinc or cadmium plated.

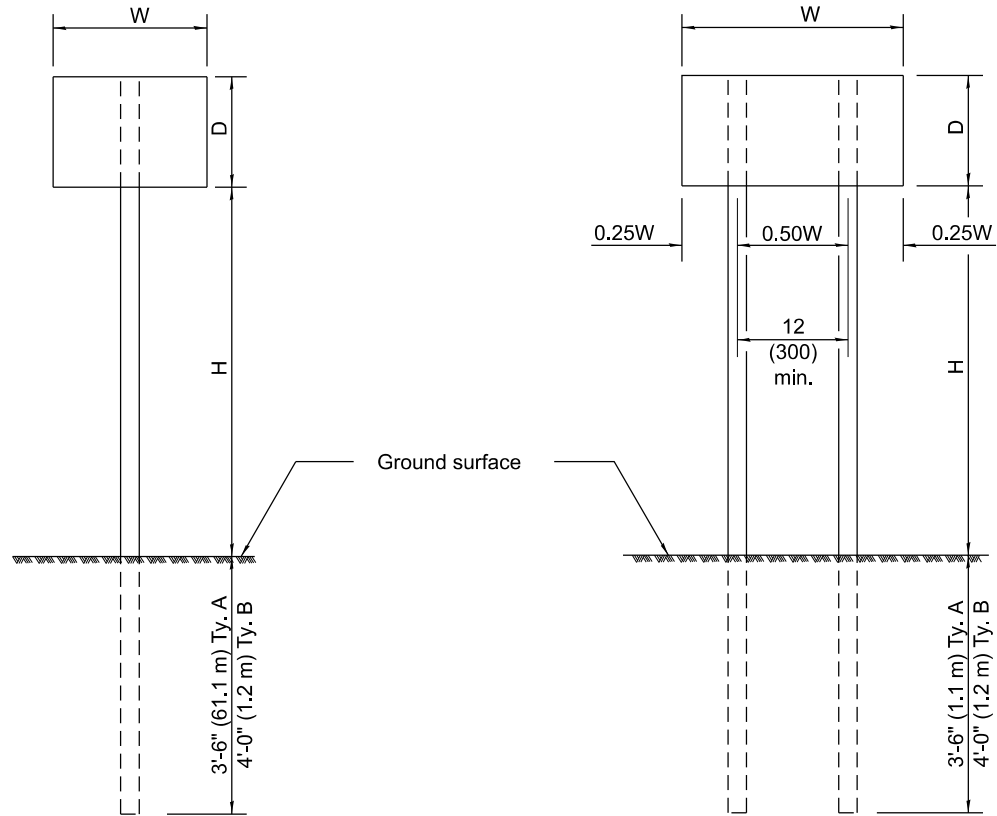
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation	
APPROVED _____ January 1, 2009 ENGINEER OF OPERATIONS	ISSUED 1-1-07
APPROVED _____ January 1, 2009 ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	New Standard. Used to be part of Standard 72006.

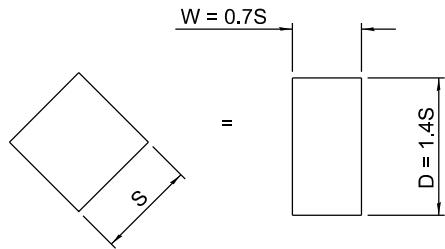
**TELESCOPING STEEL
SIGN SUPPORT**

STANDARD 728001-01



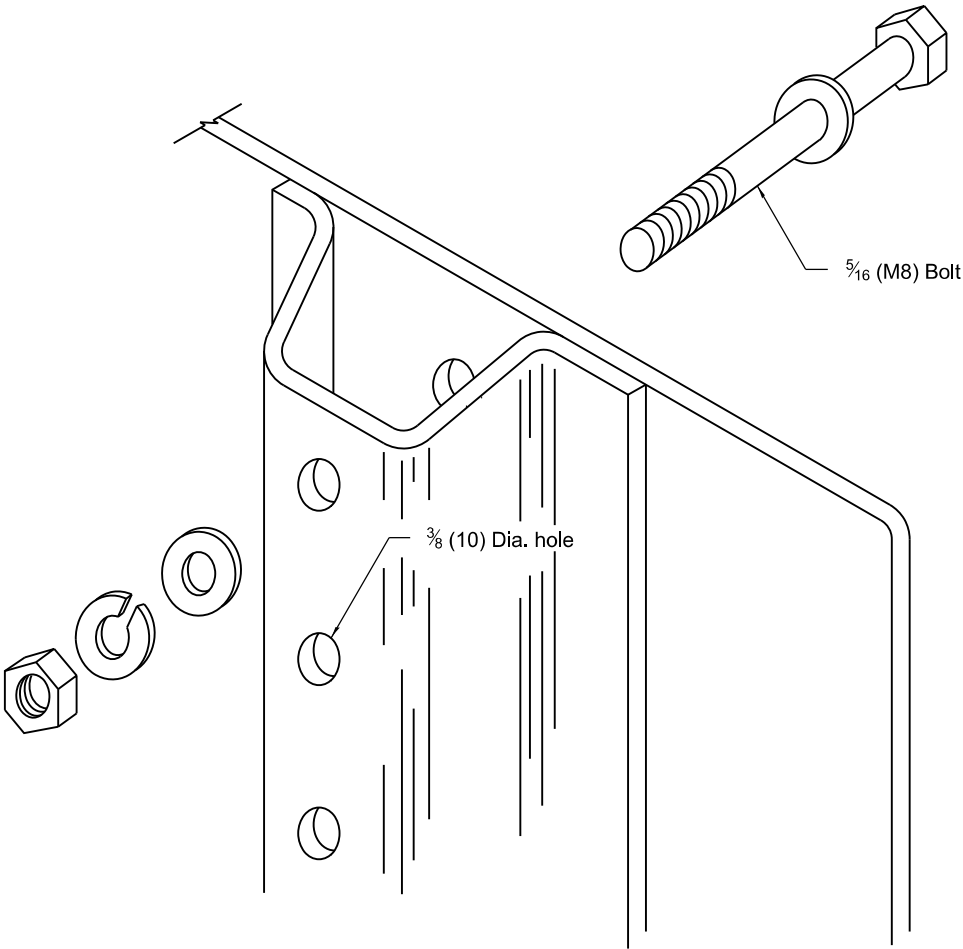
ONE POST INSTALLATION

TWO POST INSTALLATION



For diamond shaped sign with side S as shown, use required post size for a sign with W = 0.7S and D = 1.4S.

SIGN DEPTH (D)	H	NO. AND TYPE OF POST FOR SIGN WIDTH (W)				
		12 (300)	18 (450)	24 (600)	30 (750)	36 (900)
18 (450)	5'-0" (1.5 m)	A	A	A	A	A
	5'-6" (1.7 m)	A	A	A	A	A
	6'-0" (1.8 m)	A	A	A	A	B
	6'-6" (2.0 m)	A	A	A	A	B
	7'-0" (2.1 m)	A	A	A	A	B
	7'-6" (2.3 m)	A	A	A	A	B
	8'-0" (2.4 m)	A	A	A	A	B
	8'-6" (2.6 m)	A	A	A	B	B
24 (600)	5'-0" (1.5 m)	A	A	A	A	B
	5'-6" (1.7 m)	A	A	A	A	B
	6'-0" (1.8 m)	A	A	A	B	B
	6'-6" (2.0 m)	A	A	A	B	B
	7'-0" (2.1 m)	A	A	A	B	B
	7'-6" (2.3 m)	A	A	A	B	B
	8'-0" (2.4 m)	A	A	A	B	2A
	8'-6" (2.6 m)	A	A	B	B	2A
30 (750)	5'-0" (1.5 m)	A	A	A	B	B
	5'-6" (1.7 m)	A	A	A	B	2A
	6'-0" (1.8 m)	A	A	A	B	2A
	6'-6" (2.0 m)	A	A	A	B	2A
	7'-0" (2.1 m)	A	A	B	B	2A
	7'-6" (2.3 m)	A	A	B	B	2A
	8'-0" (2.4 m)	A	A	B	B	2A
	8'-6" (2.6 m)	A	A	B	2A	2A
36 (900)	5'-0" (1.5 m)	A	A	B	B	2A
	5'-6" (1.7 m)	A	A	B	B	2A
	6'-0" (1.8 m)	A	A	B	B	2A
	6'-6" (2.0 m)	A	A	B	2A	2A
	7'-0" (2.1 m)	A	A	B	2A	2A
	7'-6" (2.3 m)	A	A	B	2A	2A
	8'-0" (2.4 m)	A	B	B	2A	2A
	8'-6" (2.6 m)	A	B	B	2A	2B
4'-0" (1.2 m)	5'-0" (1.5 m)	A	A	B	2A	2A
	5'-6" (1.7 m)	A	B	B	2A	2A
	6'-0" (1.8 m)	A	B	B	2A	2A
	6'-6" (2.0 m)	A	B	2A	2A	2B
	7'-0" (2.1 m)	A	B	2A	2A	2B
	7'-6" (2.3 m)	A	B	2A	2B	2B
	8'-0" (2.4 m)	A	B	2A	2B	2B
	8'-6" (2.6 m)	B	B	2B	2B	2B
4'-0" (1.2 m)	9'-0" (2.7 m)	B	2A	2B	2B	2B



DETAIL OF MOUNTING SIGN TO POST

NOTE: Minimum of 2 bolts per post required.

GENERAL NOTES

DESIGN: Current AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

LOADING: for 60 mph (95 km/h) wind velocity with 30% gust factor, normal to sign.

SOIL PRESSURE: Minimum allowable soil pressure 1.25 tsf (120 kPa).


See Standard 720011 for details of Types A and B posts.

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

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-97	Renum. Standard 2363-2.

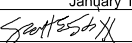
APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

STANDARD 729001-01



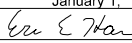
Illinois Department of Transportation

APPROVED January 1, 2009



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APPROVED January 1, 2009



ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97