COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	1
PROJECT NO. 240294		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

FUNCTIONAL CLASSIFICATION

ROSALIND STREET - LOCAL STREET

TRAFFIC DATA:

ADT:
ROSALIND STREET = 1000 (2023)

POSTED SPEED:
ROSALIND STREET = 30 MPH

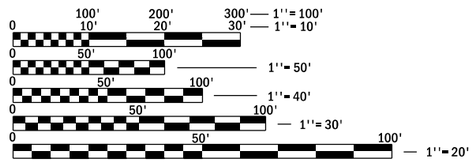
BENCHMARKS

SOURCE: TRIMBLE VRS NETWORK WITH PROJECT ORIGIN AT:
LATITUDE: 41-33-12.74673 N
LONGITUDE: 88-02-59.94771 W
ELLIPSOIDAL HEIGHT: 555.282 SFT
GROUND SCALE FACTOR: 1.0000446241 GEOID 18

SITE:

STATION DESIGNATION: SBM#1
ESTABLISHED BY: V3 COMPANIES
DATE: 04-15-24
ELEVATION: 651.96 (MEASURED)
DATUM: NAVD88
DESCRIPTION: SOUTHWEST BOLT ON FIRE HYDRANT, 1ST HYDRANT WEST OF CULVERT ON SOUTH SIDE ROSALIND STREET, WEST OF FERNWOOD AVENUE.

STATION DESIGNATION: SBM#2
ESTABLISHED BY: V3 COMPANIES
DATE: 04-15-24
ELEVATION: 655.84 (MEASURED)
DATUM: NAVD88
DESCRIPTION: SOUTHWEST BOLT ON FIRE HYDRANT, 1ST HYDRANT EAST OF CULVERT ON SOUTH SIDE ROSALIND STREET, WEST OF FERNWOOD AVENUE .

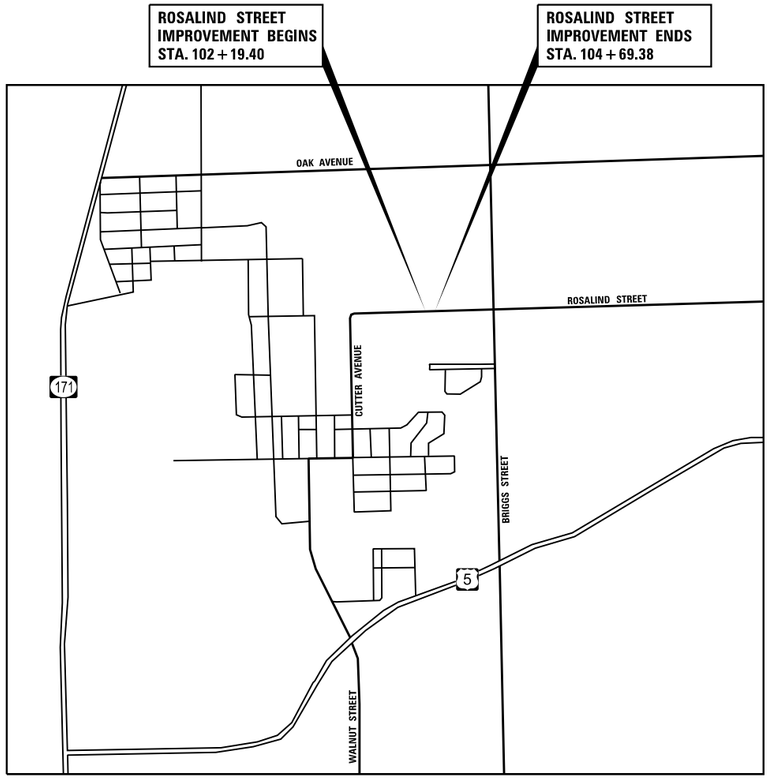


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123
OR 811

V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

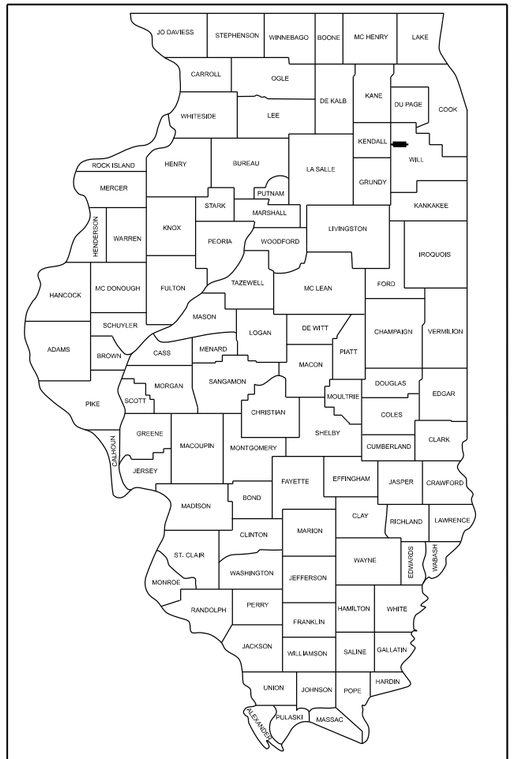
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED FEDERAL AID HIGHWAY
CITY OF JOLIET CULVERT REPLACEMENT PROJECT
ROSALIND STREET
CITY OF JOLIET
WILL COUNTY



LOCKPORT TOWNSHIP (NORTH)
JOLIET TOWNSHIP (SOUTH)

LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 249.92 FT. = 0.05 MILE
NET LENGTH = 249.92 FT. = 0.05 MILE



LOCATION OF SECTION INDICATED THUS: -

CONTROL POINTS

100,	1780025.680,	1061808.122,	650.360,	SMN AT HYD
101,	1780042.980,	1062275.953,	648.719,	SMN AT HYD
102,	1780014.186,	1061808.549,	652.616,	TGT E FACE HYD
103,	1780023.230,	1062133.515,	644.754,	TGT W FACE HYD
104,	1780028.617,	1062375.310,	653.788,	SCC TEM RIM
105,	1781103.368,	1063414.286,	671.242,	SMN
106,	1781412.407,	1063398.808,	672.836,	SMN
107,	1779113.347,	1061980.779,	626.105,	SCC TC AT HYD
108,	1779126.677,	1061709.611,	626.697,	SCC TC AT HYD

Approved _____

CITY OF JOLIET

V3
JASON D. HOLY
062-059941

DATE: 08-15-2024

JASON D. HOLY 062-059941 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

EXPIRATION DATE: 11-30-2025

CONTRACT NO.

GENERAL NOTES

1. ALL EXISTING TOPOGRAPHY, UNDERGROUND UTILITIES, STRUCTURES AND ASSOCIATED FACILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS AND ELEVATIONS MUST BE CONSIDERED APPROXIMATE ONLY, THERE MAY BE OTHER FACILITIES, THE EXISTENCE OF WHICH ARE NOT PRESENTLY KNOWN. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR.

2. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AND CITY OF JOLIET FOR FIELD LOCATIONS OF BURIED UTILITIES 48 HOURS IN ADVANCE OF WORK.

ELECTRIC
COMMONWEALTH EDISON
NICK TULEJA
1 LINCOLN CENTER
OAKBROOK TERRACE, IL 60181
(773) 241 0741

GAS
NICOR GAS
FRANK TANZILLO
1844 FERRY RD.
NAPERVILLE, IL. 60563
(224) 239 8587

COMMUNICATIONS
MCI / VERIZON / ASG
JASON JARVIS
(219) 314 6926

TELEPHONE
AT&T
STEVE PESOLA
1000 COMMERCE DRIVE
OAK BROOK, IL 60523
(815) 412 5255

WATER AND SEWER
CITY OF JOLIET
JOSE GARCIA
150 W. JEFFERSON STREET
JOLIET, IL 60432
(815) 724 4256

3. THE CONTRACTOR SHALL TAKE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS TO REMAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

4. ALL CONSTRUCTION MATERIALS WITHIN THE CITY ROW MUST BE IDOT CERTIFIED. DOCUMENTATION OF THE MATERIAL CERTIFICATION SHALL BE SUBMITTED PRIOR TO CITY APPROVAL. ALL CONSTRUCTION MATERIAL NEEDING INSPECTION SHALL BE DONE ACCORDING TO THE LATEST IDOT PROJECT AND PROCEDURES GUIDE.

5. A PROOF ROLL OF THE SUBGRADE IS REQUIRED PRIOR TO PLACING THE AGGREGATE SUB-BASE AND MUST BE OBSERVED BY A CERTIFIED TESTING COMPANY AND THE CITY.

6. THE CONTRACTOR SHALL PROVIDE THE CITY A LIST OF MATERIALS USED AND IDENTIFY THEIR ASSOCIATED IDOT CERTIFICATION, SHALL PROVIDE THE CITY WITH A COPY OF ALL MATERIAL TESTING COMPANY RESULTS, SHALL SIGN AND PROVIDE THE CITY ON A WEEKLY BASIS WEEKLY FIELD REPORTS UTILIZING THE APPROPRIATE IDOT FORM, SHALL SUBMIT TO THE CITY A CERTIFICATION LETTER THAT CERTIFIES COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.

7. RECORD DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE CITY REQUIREMENTS AND SHALL BE SUBMITTED IN ELECTRONIC FORMAT.

8. ALL CONSTRUCTION TO BE ACCORDING TO IDOT DESIGN AND STANDARD SPECIFICATIONS, MUST ADHERE TO THE CITY OF JOLIET PUBLIC WORKS DEPARTMENT, AND SHALL FOLLOW THE LATEST WILL COUNTY STORM WATER MANAGEMENT ORDINANCE AND WILL COUNTY WATER RESOURCE ORDINANCE AT ALL TIMES.

9. ALL DISTURBED GROUND WITHIN THE CITY RIGHT-OF-WAY SHALL BE RE-SEEDED AND INSTALLED TO THE SATISFACTION OF CITY OF JOLIET.

10. THE HOT-MIX ASPHALT SURFACE OF ALL PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HOT-MIX ASPHALT SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE.

11. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

12. THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT LIFTS.

13. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

14. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. SEEDING LOCATIONS, OTHER THEN THOSE DEPICTED ON THE EROSION CONTROL PLANS, WILL BE DETERMINED BY THE ENGINEER.

15. ONLY THOSE TREES DESIGNATED BY THE ENGINEER SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

16. ALL ELEVATIONS REFER TO THE NAVD 88 DATUM.

17. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

18. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE IDOT HIGHWAY STANDARD AS INDICATED BY THE VERSION SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

19. ALL EXISTING GRANULAR MATERIAL AND HOT-MIX ASPHALT MATERIALS TO BE REMOVED AND NOT PAID AS A SPECIFIC ITEM SHALL BE CONSIDERED EARTH EXCAVATION AND WILL BE PAID FOR AT THE UNIT PRICE FOR EARTH EXCAVATION.

20. ALL SAWCUTS (FULL DEPTH) SHALL BE CONSIDERED INCLUDED IN THE COST OF REMOVAL ITEMS.

21. PAY ITEMS FOR NON-SPECIAL WASTE DISPOSAL HAS BEEN INCLUDED IN THE PLANS AS CONTAMINATED SOILS HAVE BEEN FOUND. SEE PLAN AND PROFILE SHEETS FOR EXACT LIMITS OF THE WASTE.

22. FINAL ACCEPTANCE OF THE PROJECT WILL BE CONTINGENT ON RECORD DRAWING APPROVAL BY THE ENGINEER.

23. CONTRACTOR TO PROVIDE ACCESS TO RESIDENTIAL DRIVEWAY WITHIN THE WORK LIMITS AT ALL TIMES. ANY STONE NEEDED TO PROVIDE A SAFE DRIVEWAY SHALL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE CONTRACT. CONTRACTOR IS TO COORDINATE WITH HOME OWNER WHILE WORKING AROUND THEIR DRIVEWAY.

MAINTENANCE OF TRAFFIC GENERAL NOTES

24. TYPE I OR II BARRICADES AND VERTICAL PANELS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AND SHALL BE PLACED AT A MAXIMUM OF 50 FOOT INTERVALS ALONG THE PROPOSED WORK ZONE, 25 FOOT INTERVALS IN TAPER SECTIONS, AND 10 FOOT INTERVALS AROUND RADII AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. BARRICADES WITH LEG EXTENSIONS SHALL BE USED WHERE NEEDED TO PROVIDE A MINIMUM DISTANCE OF 36" BETWEEN THE PAVEMENT AND TOP OF BARRICADE. BARRICADE IN TAPER SECTIONS SHALL HAVE DIRECTION INDICATOR PANELS.

25. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AND SIDE ROADS DURING CONSTRUCTION OPERATIONS. A QUANTITY OF 'AGGREGATE FOR TEMPORARY ACCESS" HAS BEEN INCLUDED IN THE CONTRACT FOR THIS PURPOSE.

26. ADVANCE WARNING SIGNS SHALL BE MAINTAINED THROUGH ALL STAGES OF CONSTRUCTION.

27. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY CHANGE IN STAGING AT LEAST TWO (2) WORKING DAYS IN ADVANCE.

28. THE CONTRACTOR SHALL NOTIFY ALL MUNICIPALITIES, EMERGENCY SERVICES, AND SCHOOL DISTRICTS THAT WILL BE AFFECTED BY ANY ROAD CLOSURES OR DETOURS 72 HOURS PRIOR TO THEIR IMPLEMENTATION.

29. THE CONTRACTOR SHALL MAINTAIN DRAINAGE OF THE ROADWAY DURING ALL STAGES OF CONSTRUCTION.

30. TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901-08 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT. BARRICADES ARE TO BE INCIDENTAL TO "TRAFFIC CONTROL PROTECTION (SPECIAL)". ALL TYPE III BARRICADES SHALL HAVE TWO (2) FLASHING AMBER LIGHTS.

31. THE FIRST TWO WARNING SIGNS IN EACH DIRECTION OF TRAVEL SHALL BE EQUIPPED WITH HIGH-INTENSITY MONO-DIRECTIONAL AMBER FLASHING LIGHTS DURING HOURS OF DARKNESS. FLAGS ARE OPTIONAL.

32. THE CONTRACTOR IS TO INSTALL A CHANGEABLE MESSAGE BOARD TWO WEEKS IN ADVANCE OF ANY CONSTRUCTION. ANY MESSAGE SHALL BE APPROVED BY THE CITY OF JOLIET OR FIELD ENGINEER. THE CHANGEABLE MESSAGE BOARD WILL REMAIN ON SITE AND BE ROUTINELY UPDATED UNTIL PROJECT COMPLETION.

33. ALL PERSONNEL WORKING OUTSIDE A VEHICLE WITHIN THE PUBLIC RIGHT-OF-WAY MUST BE WEARING A GARMENT THAT MEETS ANSI CLASS 2 REQUIREMENTS, OR CLASS 3 REQUIREMENTS FOR NIGHT OPERATIONS.

34. "CAUTION" TAPE OR RIBBON IS NOT TO BE USED BETWEEN BARRICADES.

35. TYPE I OR TYPE II BARRICADES WITH TWO-WAY FLASHING LIGHTS SHALL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, TRANSVERSE PAVEMENT JOINTS, MATERIALS OR EQUIPMENT WITHIN THE RIGHT-OF-WAY (NUMBER AND SPACING DEPENDS ON THE CONDITIONS); AND AT LOCATIONS DESIGNATED BY THE ENGINEER OR LOCAL LAW ENFORCEMENT AGENCIES.

36. TYPE I, II, AND / OR III BARRICADES WITH TWO-WAY FLASHING LIGHTS WILL BE REQUIRED TO GUIDE TRAFFIC AWAY FROM PAVEMENT AREAS CLOSED FOR CONSTRUCTION.

37. THE COST OF SUPPLYING, ERECTING, AND MAINTAINING BARRICADES, WARNING LIGHTS, AND SIGNS WILL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

INDEX OF SHEETS

1 COVER SHEET
2 INDEX OF SHEETS AND GENERAL NOTES
3-4 SUMMARY OF QUANTITIES
5 TYPICAL SECTIONS
6 DETOUR PLAN
7 REMOVAL PLAN
8 EROSION CONTROL PLAN
9 ROADWAY PLAN AND PROFILE
10 RETAINING WALL DETAIL
11 GRADING AND PAVEMENT MARKING PLAN
12-19 CONSTRUCTION DETAILS

IDOT HIGHWAY STANDARDS

602301-04 INLET - TYPE A
604036-03 GRATE TYPE 8
630001-13 STEEL PLATE BEAM GUARDRAIL
630106-02 LONG-SPAN GUARDRAIL OVER CULVERT
630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10 TRAFFIC BARRIER TERMINAL, TYPE 2
664001-02 CHAIN LINK FENCE
701901-09 TRAFFIC CONTROL DEVICES
782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

IDOT DISTRICT 1 STANDARDS

TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS

CITY OF JOLIET STANDARDS

PVT-01 DRIVEWAY PAVEMENT DETAIL
PVT-02 TYPICAL PAVEMENT SECTION

MISCELLANEOUS DETAILS

SILT FENCE PLAN
STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)
6' X 6' APRON END SECTION

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Woodridge, IL 60517
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USER NAME = cwasowicz	DESIGNED -	REVISED -	REVISED -
	DRAWN -	REVISED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -	REVISED -
PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -

ROSALIND CULVERT REPLACEMENT
JOLIET ILLINOIS

INDEX OF SHEETS AND GENERAL NOTES
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	2

PROJECT NO. 240294

MODEL: Default
FILE NAME: Nc2024\240294\Drawings\Master\CADD_Sheets\D1240294-alt-gennotes-01.dgn

SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	189
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	360
	20101400	NITROGEN FERTILIZER NUTRIENT	POUND	17
	20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	17
	20200100	EARTH EXCAVATION	CU YD	405
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	238
	20800150	TRENCH BACKFILL	CU YD	344
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	866
	25000210	SEEDING, CLASS 2A	ACRE	0.2
	25100630	EROSION CONTROL BLANKET	SQ YD	866
	28000305	TEMPORARY DITCH CHECKS	FOOT	90
	28000400	PERIMETER EROSION BARRIER	FOOT	641
	28000510	INLET FILTERS	EACH	1
	28100109	STONE RIPRAP, CLASS A5	SQ YD	165
	28200200	FILTER FABRIC	SQ YD	165
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	20
	35102200	AGGREGATE BASE COURSE, TYPE B 10"	SQ YD	682
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,473
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	280

SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	139
	40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	76
	44000100	PAVEMENT REMOVAL	SQ YD	458
	48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	247
	50105220	PIPE CULVERT REMOVAL	FOOT	20
	54010606	PRECAST CONCRETE BOX CULVERTS 6' X 6'	FOOT	44
	56103200	DUCTILE IRON WATER MAIN 10"	FOOT	97
	550A2920	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 4 12"	FOOT	49
	60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1
	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	200
	63000350	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	FOOT	75
	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1
	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3
	63200310	GUARDRAIL REMOVAL	FOOT	16
	66400105	CHAIN LINK FENCE, 4'	FOOT	75
	67100100	MOBILIZATION	L SUM	1
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	90
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	3
	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	983

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	DRAWN -	REVISED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -	REVISED -
PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -

JOLIET

ROSALIND CULVERT REPLACEMENT

ILLINOIS

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	3

PROJECT NO. 240294

MODEL: Default
FILE NAME: N:\2024\240294\Drawings\Mstr\CADD_Sheets\D 240294-sht-SOQ-01.dgn

SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8
*	X0327301	RELOCATE EXISTING MAILBOX	EACH	1
*	X1200221	NON-PRESSURE CONNECTION TO EXISTING WATER MAIN	EACH	2
*	X2010512	CLEARING AND GRUBBING	SQ YD	866
*	X2130010	EXPLORATION TRENCH (SPECIAL)	FOOT	100
*	X5400005	BOX CULVERT REMOVAL	FOOT	36
*	X5610710	WATER MAIN REMOVAL, 10"	FOOT	106
*	X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	12.5
*	X6640104	FENCE REMOVAL	FOOT	75
*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
*		RETAINING WALL (SPECIAL)	SQ YD	372
*		WATER MAIN CASING SLEEVE	FOOT	35
*		6' X 6' APRON END SECTION	EACH	1

MODEL: Default
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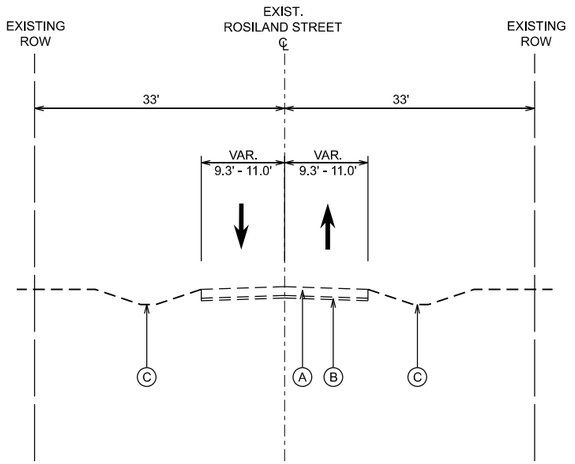
	DRAWN -	REVISED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -	REVISED -
PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -

ROSALIND CULVERT REPLACEMENT
JOLIET ILLINOIS

SUMMARY OF QUANTITIES
SCALE: NONE | SHEET 2 OF 2 SHEETS | STA. | TO STA.

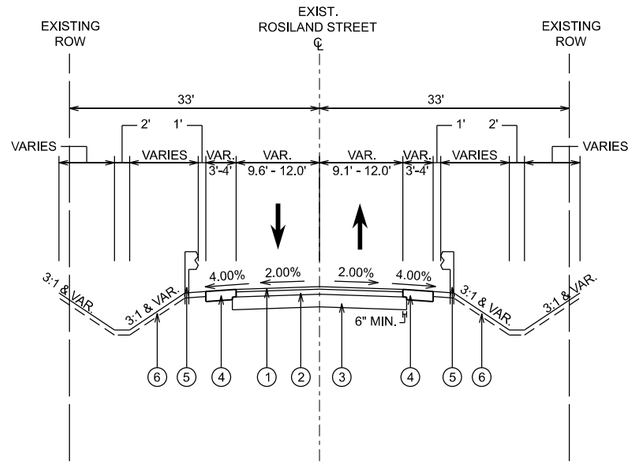
COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	4

PROJECT NO. 240294



EXISTING TYPICAL SECTION
ROSALIND STREET

STA 102+19.28 TO STA 102+96.12
STA 104+04.44 TO STA 104+69.79



PROPOSED TYPICAL SECTION
ROSALIND STREET

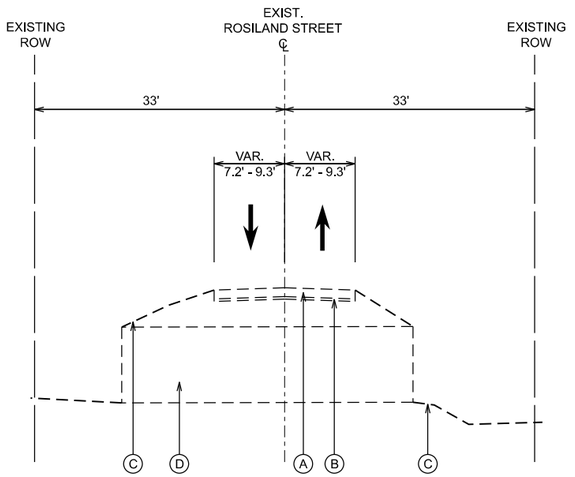
STA 102+19.28 TO STA 102+96.12
STA 104+04.44 TO STA 104+69.79

EXISTING LEGEND

- (A) EXISTING ASPHALT PAVEMENT, 7"
- (B) AGGREGATE SUBGRADE, 2"
- (C) EXISTING GROUND
- (D) EXISTING 60" CULVERT

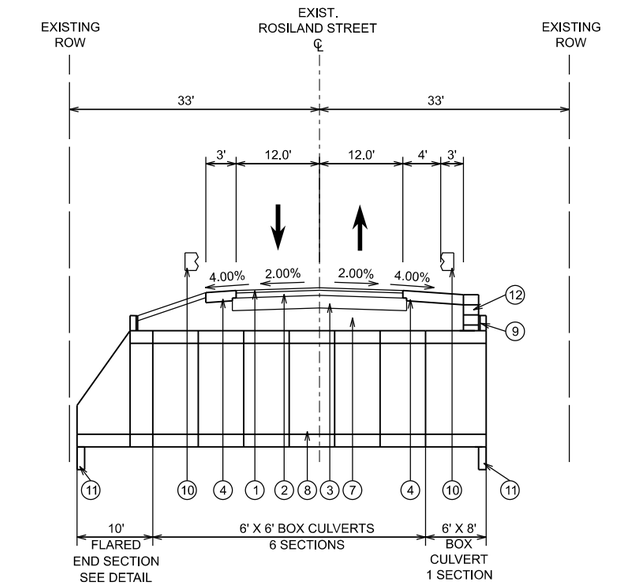
PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"
- (3) AGGREGATE BASE COURSE, TYBE B, 10"
- (4) AGGREGATE SHOULDERS, TYPE B, 8"
- (5) STEEL PLATE BEAM GUARDRAIL, TYPE A
- (6) SEEDING, CLASS 2A
  TOPSOIL FURNISH AND PLACE, 4"
- (7) TRENCH BACKFILL
- (8) BOX CULVERT
- (9) 12" POURED IN PLACE HEADWELL
- (10) LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN
- (11) TOE WALL
- (12) LARGE SEGMENT BLOCK WALL



EXISTING TYPICAL SECTION
ROSALIND STREET

STA 102+96.12 TO STA 104+04.44



PROPOSED TYPICAL SECTION
ROSALIND STREET

STA 102+96.12 TO STA 104+04.44

HOT-MIX ASPHALT REQUIREMENTS

MIXTURE TYPE	VOIDS
ROSILAND STREET FULL DEPTH PAVEMENT	
HMA SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 2"	4% @ 50 GYR
HMA BINDER COURSE, N50 (IL-19.0 mm), 4" (2 LIFTS)	4% @ 50 GYR
HMA DRIVEWAY PAVEMENT	
HMA SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 3"	4% @ 50 GYR

NOTES

1. THE UNIT WEIGHT USED TO CALCULATATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.
2. FOR USE OF RECYCLED MATERIALS SEE IDOT DISTRICT SPECIAL PROVISION FOR "RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES".

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	DRAWN -	REVISED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -	REVISED -
PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -

ROSALIND CULVERT REPLACEMENT
JOLIET ILLINOIS

TYPICAL SECTIONS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	5

PROJECT NO. 240294

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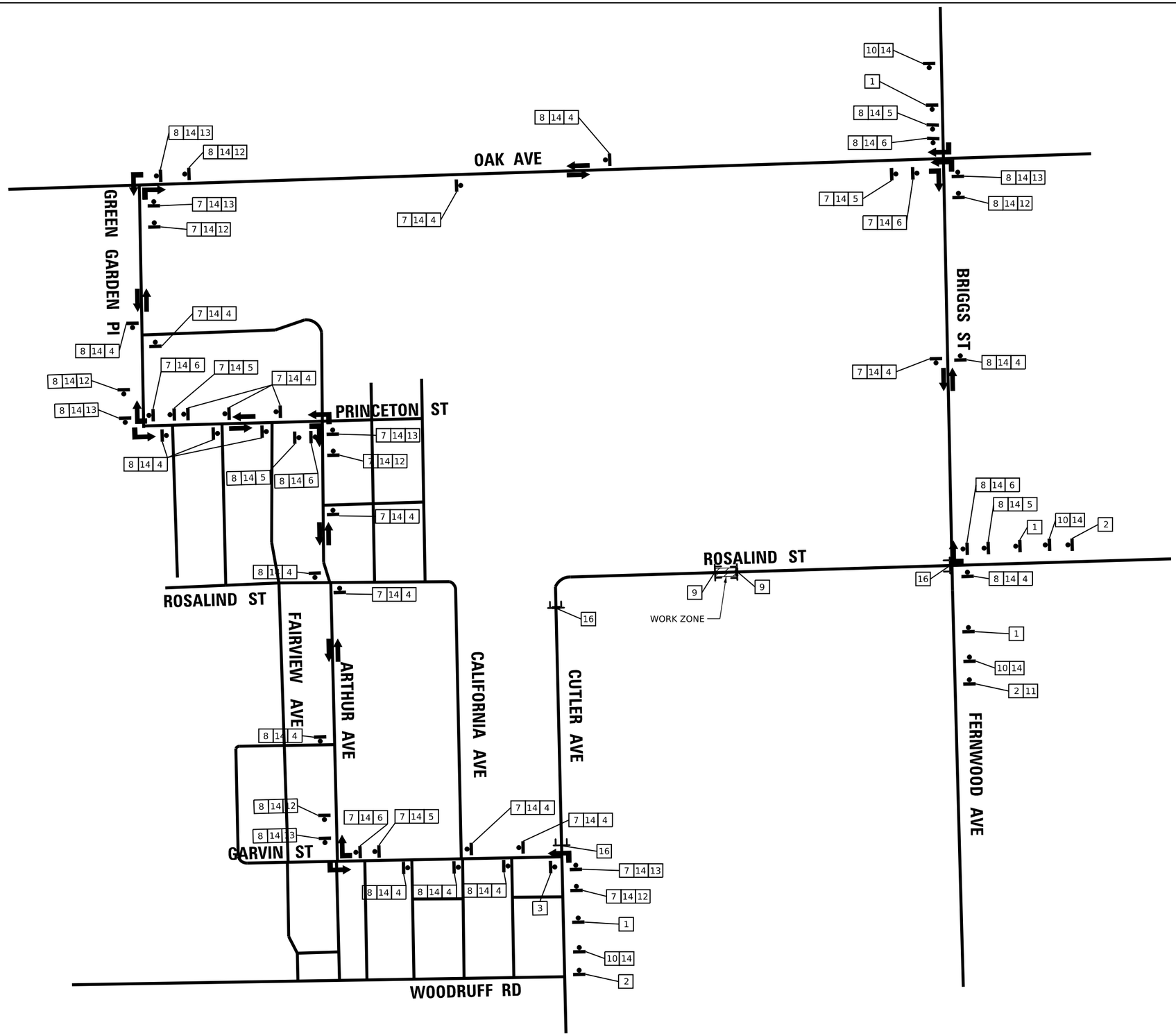

SIGNAGE LEGEND

1	DETOUR AHEAD W20-2 (O) 48	9	ROAD CLOSED R11-2 48X30
2	ROAD CONSTRUCTION AHEAD W20-I103 (0) 48	10	ROAD CLOSED AHEAD W20-3 (O) 48
3	END DETOUR M4-8a (O) 2412	11	 W16-5pl
4	DETOUR M6-3 2115	12	DETOUR M5-1L 2115
5	DETOUR M5-1R 2115	13	DETOUR M6-1L 2115
6	DETOUR M6-1R 2115	14	ROSALIND ST CUSTOM (30x12)
7	EAST M3-1 (O) 2412	15	 W16-5pr
8	WEST M3-3 (O) 2412	16	ROAD CLOSED LOCAL TRAFFIC ONLY R11-3
		17	DETOUR M4-10R

NOTES:

1. SPACING OF SIGNS SHALL BE SET AT 200' STARTING FROM THE CENTER OF INTERSECTION.
2. AT THE END OF EACH WORK DAY ON IL 7 THE CONTRACTOR IS TO REMOVE THEIR BARRICADES AND STEEL PLATE THE HOLE IN THE ROADWAY. NO OPEN HOLES SHOULD BE LEFT OPEN AFTER WORKING HOURS.
3. DURING THE DAILY LANE CLOSURES ON IL 7 THE BIDIRECTIONAL TURN LANE SHALL BE CLOSED AND THE MOT SHOULD BE CONFIGURED AS A ONE LANE ROAD WITH FLAGGERS PER IDOT STANDARD 701501-06.

LEGEND

- DETOUR SIGN, NUMBER DENOTES TYPE
- TYPE III BARRICADE
- DETOUR ROUTE
- WORK ZONE

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PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -

ROSALIND CULVERT REPLACEMENT
JOLIET ILLINOIS

DETOUR PLAN
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	6
PROJECT NO. 240294		

MODEL: Default
FILE NAME: N:\2024\240294\Drawings\Mstr\CADD_Sheets\D1240294-shtMOT-01.dgn

N

STA 103+86.24
OFF -33.00'

STA 103+88.34
OFF -26.91'

EX ROW

FENCE TO BE REMOVED, 75 FEET

STA 104+56.34
OFF -27.90'

SIGN ASSEMBLY
TO BE REMOVED

CULVERT TO BE REMOVED

SIGN ASSEMBLY TO BE REMOVED

STA 102+19,53
OFF -9.57'

CULVERT TO BE REMOVED, 20 FEET

STA 104+68.97
OFF -9.39'

102

103

104

ROSALIND STREET

STA 104+69.79
OFF 9.23'

STA 102+19.28
OFF 9.08'

MAILBOX TO BE REMOVED AND REINSTALLED

SIGN ASSEMBLY TO BE REMOVED

GUARDRAIL TO BE REMOVED, 16 FEET

WATER MAIN TO BE REMOVED, 18 FEET

WATER MAIN TO BE REMOVED, 79 FEET

EX ROW

REMOVAL LEGEND

- FULL DEPTH PAVEMENT REMOVAL
- LINEAR ITEM REMOVAL
- EACH ITEMS TO BE REMOVED

1"=10' SCALE 0 10 20 30 FEET

MODEL: Default
FILE NAME: N:\2024\240294\Drawings\Mstn\CADD_Sheets\D1240294-alt-rem-01.dgn

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	DRAWN -	REVISED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -	REVISED -
PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -

ROSALIND CULVERT REPLACEMENT

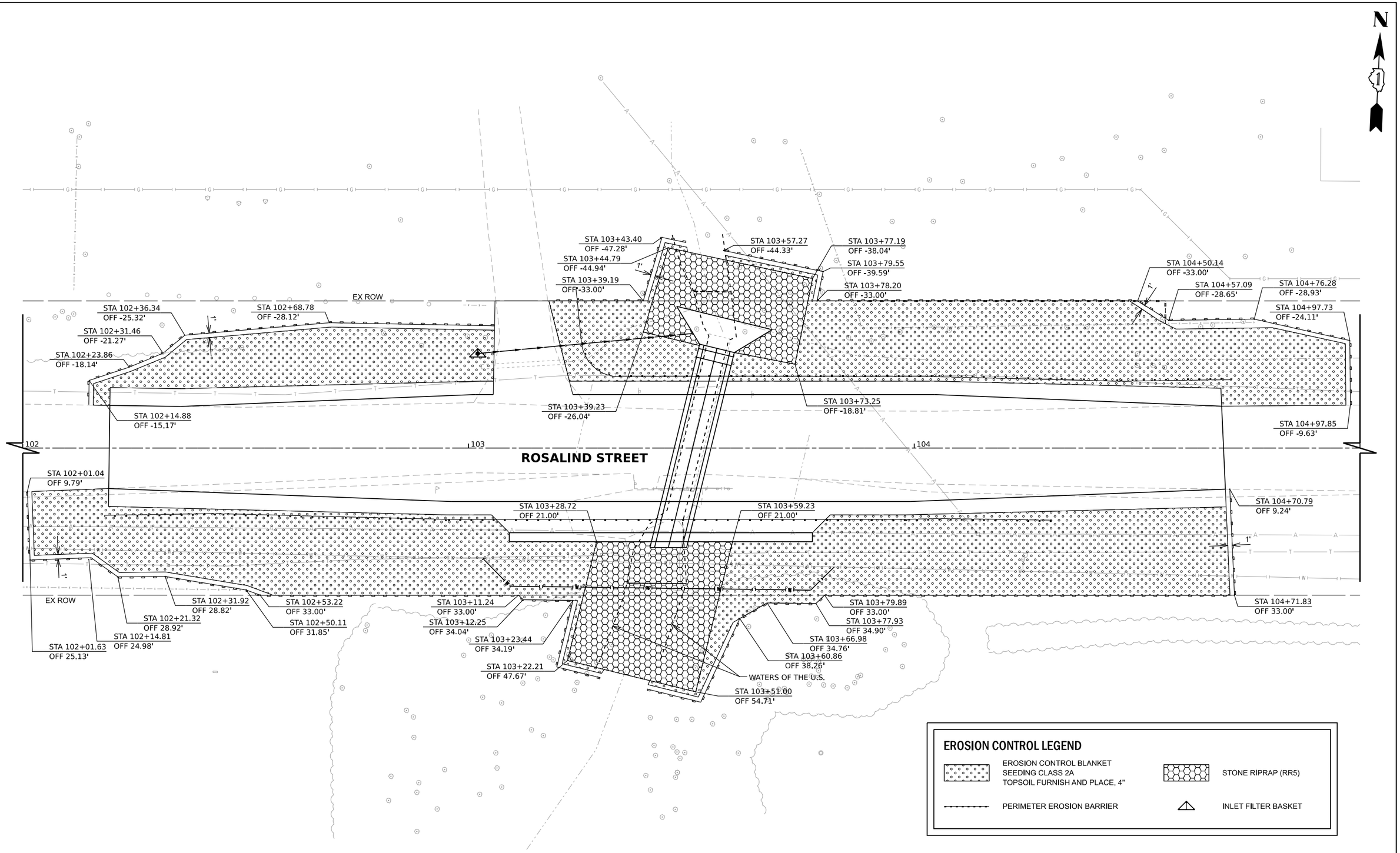
JOLIET ILLINOIS

REMOVAL PLAN

SCALE: 1"=10" | SHEET 1 OF 1 SHEETS | STA. 102+00.00 TO STA. 105+00.00

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	7

PROJECT NO. 240294



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PLOT SCALE =	CHECKED -	REVISED -	REVISED -
PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -

ROSALIND CULVERT REPLACEMENT

JOLIET ILLINOIS

EROSION CONTROL PLAN

SCALE: 1"=10" | SHEET 1 OF 1 SHEETS | STA. 102+00.00 TO STA. 105+00.00

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	8

PROJECT NO. 240294

TRAFFIC BARRIER TERMINAL
TYPE 2, 12.5 FT

STA 103+18.02
OFF -33.00'

STA 103+24.09
OFF -36.09'

STA 103+05.94
OFF -33.00'

STA 103+25.34
OFF -23.65'

CURVED GUARDRAIL
8.5' RADIUS, 12.5 FT (SEE DETAIL)

PIPE INVERT = 634.00
CONNECT ON WING WALL OF BOX CULVERT

CHAIN LINK FENCE, 4'
75 FT

EX ROW

STA 104+56.34
OFF -33.00'

STA 103+05.60
OFF -15.00'

STA 103+57.41
OFF -29.17'

STA 103+86.24
OFF -33.00'

STA 104+56.34
OFF -27.90'

2' INLET, TYPE A, TYPE 8 GRATE
RIM = 640.50
INVERT = 637.00

STA 103+71.30
OFF -16.00'

STEEL PLATE BEAM GUARDRAIL, TYPE A, 75 FT

TRAFFIC BARRIER TERMINAL
TYPE 1 SPECIAL (TANGENT), 25 FT

STA 103+33.80
OFF -16.00'

STA 104+05.43
OFF -16.00'

STA 104+05.41
OFF -15.00'

STA 104+46.29
OFF -14.98'

STA 104+04.44
OFF -12.00'

STA 103+05.55
OFF -12.00'

STA 102+19.53
OFF -9.57'

STA 102+35.46
OFF -13.32'

40:1 TAPER

STA 104+71.28
OFF -15.35'

33'

STA 104+68.80
OFF -13.42'

25:1 TAPER

STA 103+01.49
OFF -12.00'

STA 102+35.46
OFF -9.35'

STA 103+23.40
OFF -12.00'

STA 103+22.63
OFF -15.00'

STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 4 – 12"
6.12%, 49 FT

START PROJECT
STA 102+19.40

9.6'

12'

3'

44'

42'

ROSALIND STREET

9.4'

STA 104+68.97
OFF -9.39'

102

103

104

9.1'

TRAFFIC BARRIER TERMINAL
TYPE 1 SPECIAL (TANGENT), 25 FT

STA 102+96.12
OFF 12.00'

LONG-SPAN GUARDRAIL OVER CULVERT, 37.5 FT

STA 103+99.06
OFF 12.00'

END PROJECT
STA 104+69.38

NEW LOCATION
OF MAILBOX

STA 103+30.82
OFF 16.00'

STEEL PLATE BEAM
GUARDRAIL, TYPE A,
37.5 FT

STA 104+05.81
OFF 15.81'

26:1 TAPER

26:1 TAPER

9.2'

STA 104+69.79
OFF 9.23'

STA 104+69.79
OFF 13.21'

40:1 TAPER

40:1 TAPER

STA 102+18.33
OFF 15.08'

STA 102+19.28
OFF 9.08'

STA 102+43.33
OFF 14.71'

STA 102+95.14
OFF 15.00'

STA 103+98.08
OFF 15.00'

STA 104+30.81
OFF 16.18'

45.00° BEND
103+03.30, 24.85' RT
NON-PRESSURE
CONNECTION
10' DUCTILE IRON PIPE
WATER MAIN, 9 FT

RETAINING WALL, 68 FT
SEE DETAIL ON SHEET 10

STA 103+68.32
OFF 16.00'

STA 103+98.09
OFF 16.00'

TRAFFIC BARRIER TERMINAL
TYPE 1 SPECIAL (TANGENT), 25 FT

STA 102+19.22
OFF 13.10'

45.00° BEND
103+09.41, 31.03' RT

STA 103+44.82
OFF 22.34'

45.00° BEND
103+82.08, 26.67' RT
NON-PRESSURE
CONNECTION

STEEL PLATE BEAM GUARDRAIL, TYPE A, 87.5 FT

EX ROW

PROPOSED PRECAST CONCRETE 6x6 BOX
CULVERT WITH PRECAST HEADWALL ON NORTH END
UPSTREAM INVERT 632.69
DOWNSTREAM INVERT 632.01
CULVERT IS ANGLED ON SOUTH END PARALLEL TO
PROPOSED RETAINING WALL HEADWALL

10' DUCTILE IRON PIPE
WATER MAIN, 67 FT

10' DUCTILE IRON PIPE
WATER MAIN, 7 FT

WATERS OF THE U.S.

45.00° BEND
103+76.73, 31.88' RT

N

1

1"=10'
SCALE

0 10 20 30
FEET

PR ROADWAY PROFILE

EX ROADWAY PROFILE

PR GROUND PROFILE AT WATER MAIN

PR GROUND PROFILE AT WATER MAIN

PR PRECAST BOX
CULVERT 6'x6'

6' MIN. COVER

EX 10" WATER MAIN

EX 10" WATER MAIN

6' MIN. COVER

DUCTILE IRON WATER MAIN
FITTINGS 10", 45° BEND

E = 632.31

NON-PRESSURE CONNECTION

DUCTILE IRON WATER MAIN
FITTINGS 10", 45° BEND

NON-PRESSURE CONNECTION

DUCTILE IRON WATER MAIN
FITTINGS 10", 45° BEND

DUCTILE IRON WATER MAIN
FITTINGS 10", 45° BEND

WATER MAIN SLEEVE

640
635
630
625
645
640
635
630

EX ROADWAY ELEV
PR ROADWAY ELEV

645.04
642.98
642.98
641.62
641.62
641.25
641.25
642.04
642.04
643.39
643.39
645.39
645.58

102+50
103+00
103+50
104+00
104+50
105+00

ROADWAY LEGEND

HMA SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 2"
HMA BINDER COURSE, N50 (IL-19.0 mm), 4"
AGGREGATE BASE COURSE TYPE B, 10"

HMA SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 3"
AGGREGATE BASE COURSE TYPE B, 10"

AGGREGATE SHOULDER TYPE B, 8"

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ROSALIND CULVERT REPLACEMENT

JOLIET ILLINOIS

ROADWAY PLAN AND PROFILE

SCALE: 1"=10" | SHEET 1 OF 1 SHEETS | STA. 102+00.00 TO STA. 105+00.00

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	9

PROJECT NO. 240294

MODEL: Default
FILE NAME: Nc2024\240294\Drawings\Matrix\CADD_Sheets\D1240294-alht-PP-01.dgn

EX ROW

102 103 104

ROSALIND STREET

PROPOSED SEGMENTAL CONCRETE BLOCK WALL

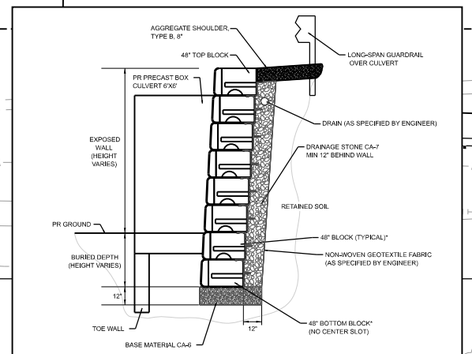
STA 103+09.15
OFF 20.00'

STA 103+77.15
OFF 20.00'

EX ROW

N

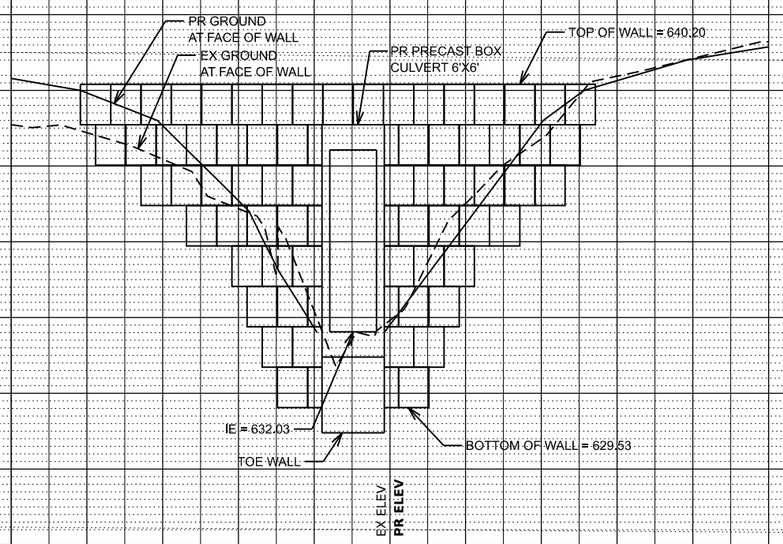
1



*REDI-ROCK, RBI ROCK LANDSCAPE BLOCK, OR RECON RETAINING WALLS
**WALL DEPTH AND GEOGRID REINFORCEMENT SHALL BE DESIGNED BY THE CONTRACTOR WALL DESIGNER

SEGMENTAL CONCRETE BLOCK WALL SECTION

1"=10' SCALE 0 10 20 30 FEET



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PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -

ROSALIND CULVERT REPLACEMENT

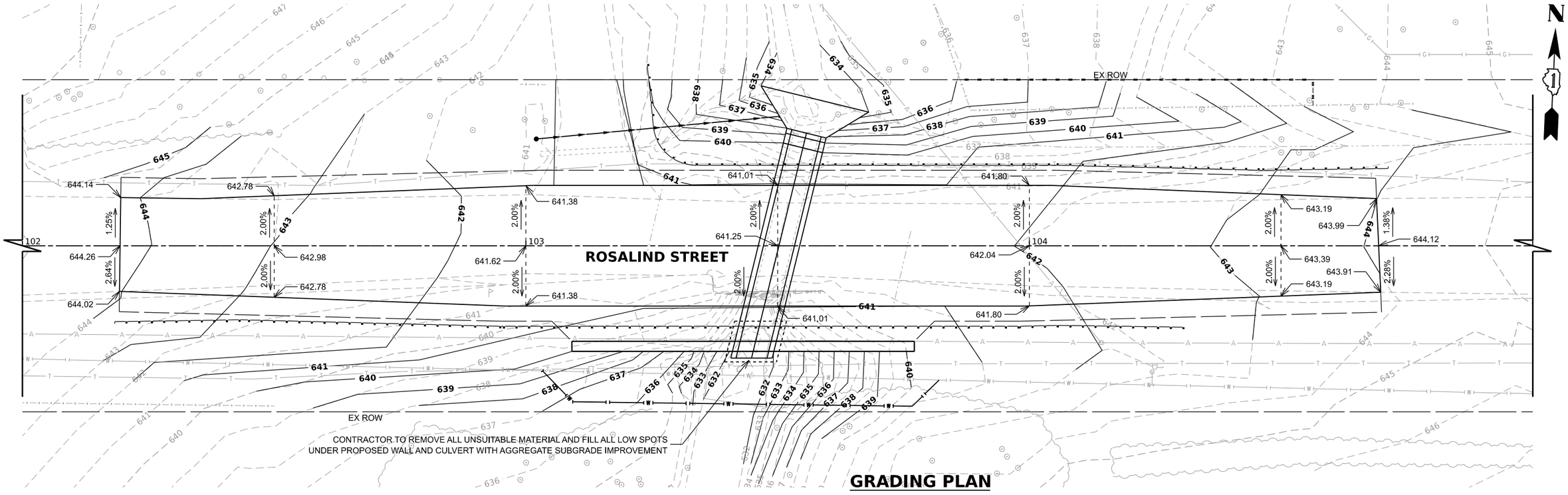
JOLIET ILLINOIS

WALL DETAIL

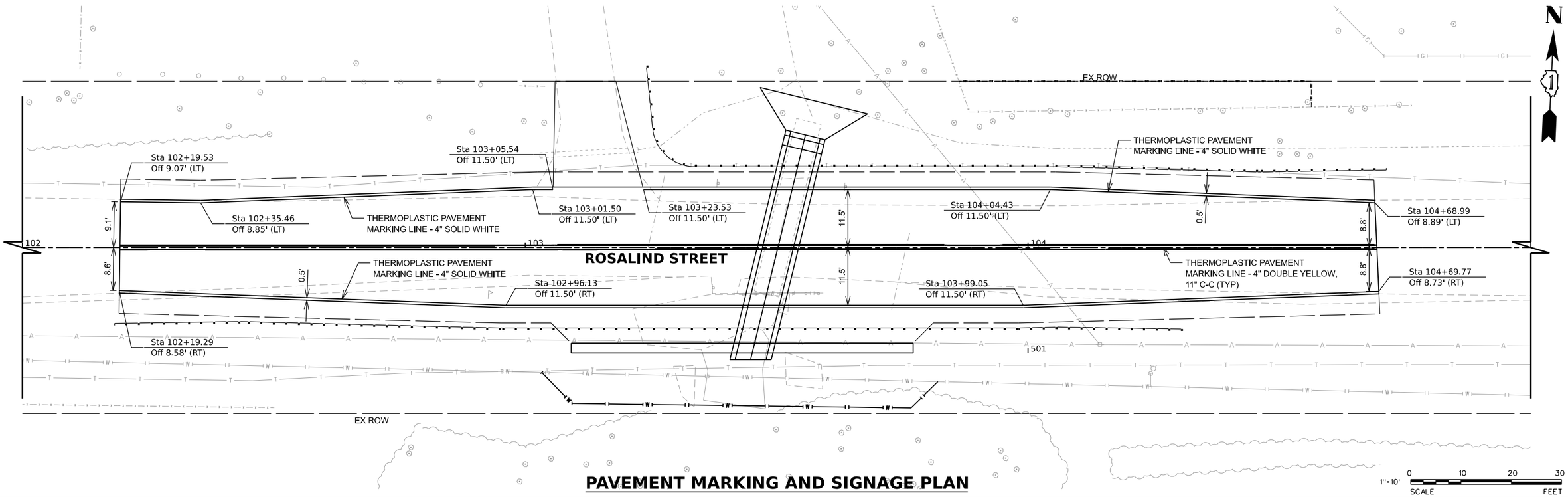
SCALE: 1"=10" | SHEET 1 OF 1 SHEETS | STA. 102+00.00 | TO STA. 105+00.00

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	10

PROJECT NO. 240294



GRADING PLAN



PAVEMENT MARKING AND SIGNAGE PLAN

1"=10' SCALE 0 10 20 30 FEET

MODEL: Default
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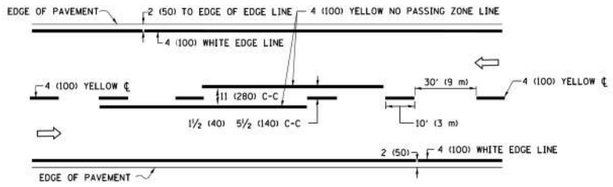
PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -

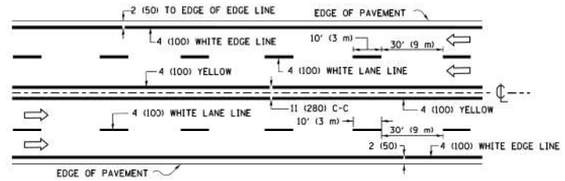
ROSALIND CULVERT REPLACEMENT
JOLIET ILLINOIS

GRADING AND PAVEMENT MARKING PLAN
SCALE: 1"=10" | SHEET 1 OF 1 SHEETS | STA. 102+00.00 TO STA. 105+00.00

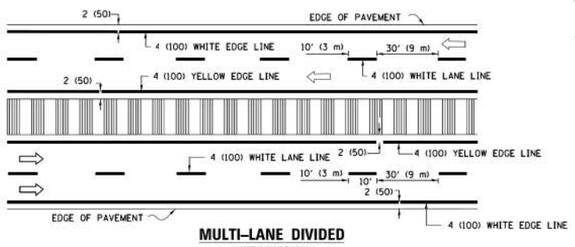
COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	11
PROJECT NO. 240294		



2–LANE ROADWAY

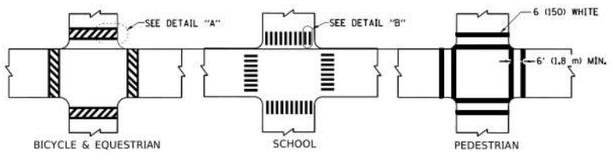


MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

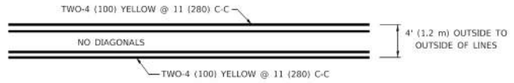




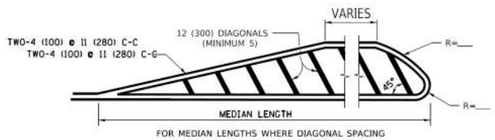
DETAIL "A" DETAIL "B"

TYPICAL CROSSWALK MARKING

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



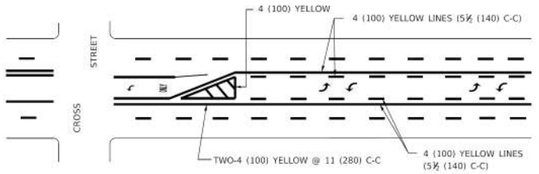
4' (1.2 m) WIDE MEDIANS ONLY



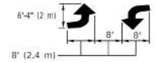
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

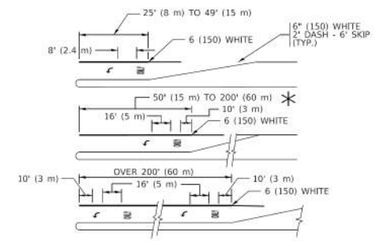


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

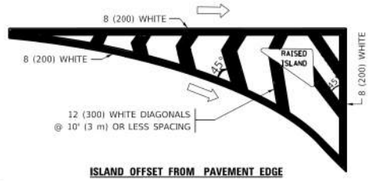


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m²)

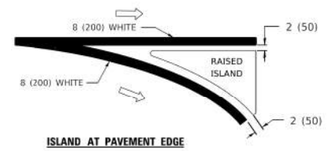
✱ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

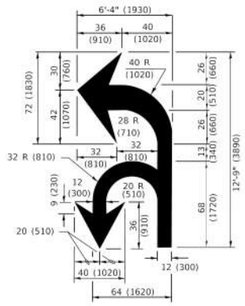


ISLAND OFFSET FROM PAVEMENT EDGE

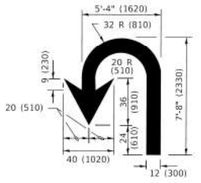


ISLAND AT PAVEMENT EDGE

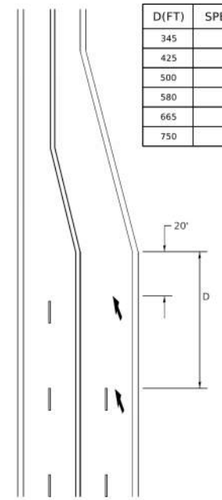
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



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

LANE REDUCTION TRANSITION

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

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 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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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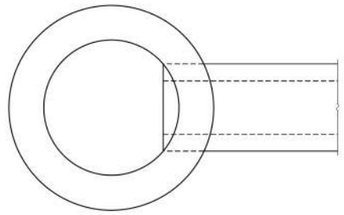
USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
	DRAWN -	REVISED - C. JUCIUS 07-01-13		
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15		SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC–13	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: N:\2024\240294\Drawings\Mstn\CADD_Sheets\D1240294-alt-details-01.dgn

V3 Companies 7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com	USER NAME = cwasowicz	DESIGNED -	REVISED -	REVISED -	ROSALIND CULVERT REPLACEMENT JOLIET ILLINOIS
		DRAWN -	REVISED -	REVISED -	
	PLOT SCALE =	CHECKED -	REVISED -	REVISED -	CONSTRUCTION DETAILS SCALE: SHEET 1 OF 8 SHEETS STA. TO STA.
	PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -	

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	12
PROJECT NO. 240294		



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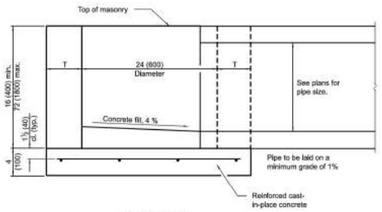
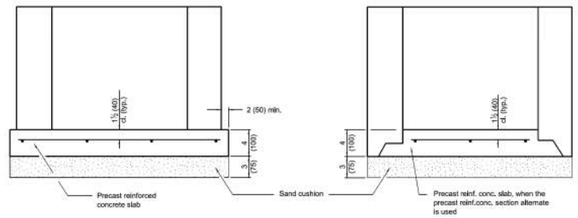


ELEVATION

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

APPROVED January 1, 2014 — ENGINEER OF POLICY AND PROCEDURES

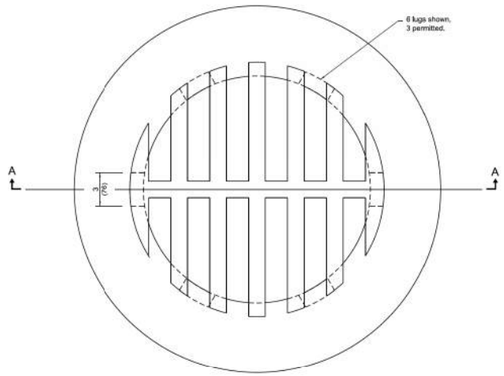
APPROVED January 1, 2014 — ENGINEER OF DESIGN AND ENVIRONMENT

BDE/ISTD 01408

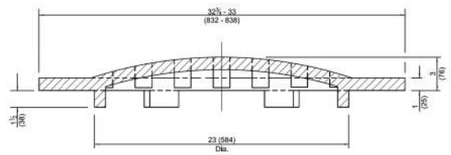
DATE	REVISIONS
1-1-14	Increased height to
	72 (1800) maximum.
1-1-11	Detailed rein. in slabs. Added max.
	limit to hight. Added general notes.

INLET - TYPE A

STANDARD 602301-04



CAST GRATE



SECTION A-A

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

Illinois Department of Transportation

APPROVED January 1, 2015 — ENGINEER OF POLICY AND PROCEDURES

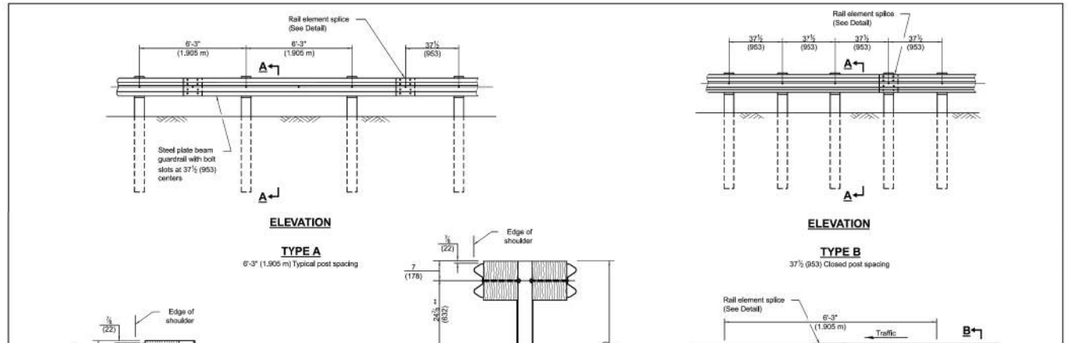
APPROVED January 1, 2015 — ENGINEER OF DESIGN AND ENVIRONMENT

BDE/ISTD 01407

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

GRATE TYPE 8

STANDARD 604036-03



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, 2024 — ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2024 — ENGINEER OF DESIGN AND ENVIRONMENT

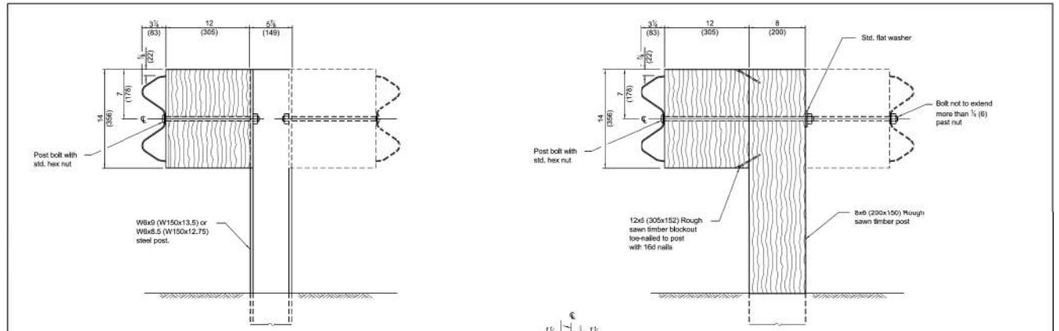
JAN 1, 2024 BDE

DATE	REVISIONS
1-1-24	Revised Section A-A to allow 6' posts
	at or behind the slope break point,
1-1-18	Revised steel post to have four
	holes in each flange.

STEEL PLATE BEAM GUARDRAIL

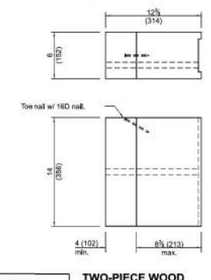
(Sheet 1 of 4)

STANDARD 630001-13

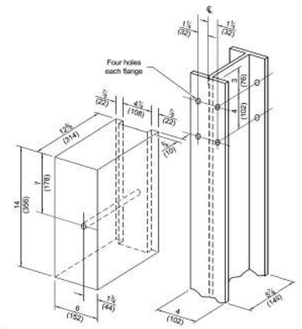


STEEL POST CONSTRUCTION

WOOD POST CONSTRUCTION

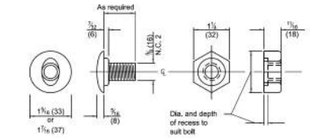


TWO-PIECE WOOD BLOCKOUT OPTION



Note:
All holes ¾ (20) dia.

WOOD BLOCK-OUT AND STEEL POST DETAILS



POST OR SPLICE BOLT & NUT

Illinois Department of Transportation

APPROVED January 1, 2024 — ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2024 — ENGINEER OF DESIGN AND ENVIRONMENT

JAN 1, 2024 BDE

STEEL PLATE BEAM GUARDRAIL

(Sheet 2 of 4)

STANDARD 630001-13

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V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

USER NAME = cwasowicz	DESIGNED -	REVISED -	REVISED -	
	DRAWN -	REVISED -	REVISED -	
PLOT SCALE =	CHECKED -	REVISED -	REVISED -	
PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -	

JOLIET

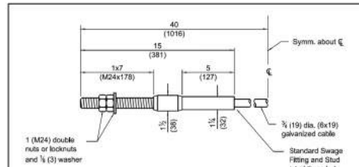
ROSALIND CULVERT REPLACEMENT

ILLINOIS

CONSTRUCTION DETAILS

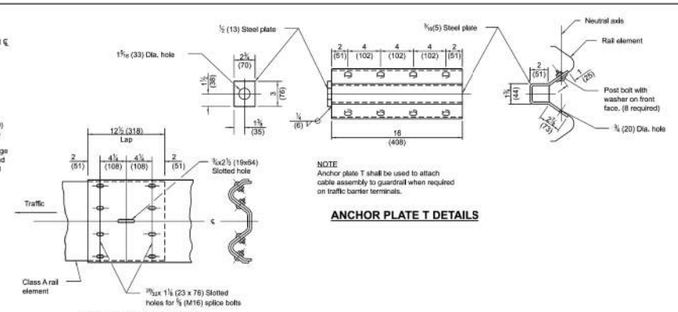
SCALE: 1"=10" | SHEET 2 OF 8 SHEETS | STA. | TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	13
PROJECT NO. 240294		



CABLE ASSEMBLY

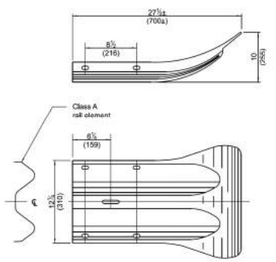
(42,800 lbs. (190 kN) min. breaking strength)
Tighten to taut tension.



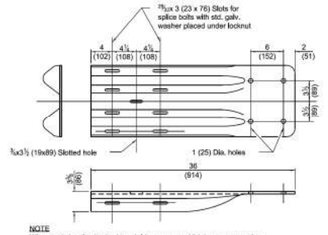
NOTE
Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

ANCHOR PLATE T DETAILS

RAIL ELEMENT SPLICE



END SECTION

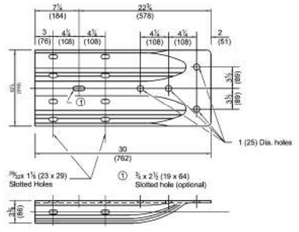


NOTE
When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

Externally threaded studs protruding from the surface of the concrete will not be permitted.

END SHOE



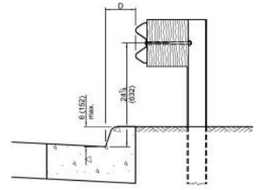
ALTERNATE END SHOE

Illinois Department of Transportation
APPROVED January 1, 2024
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2024
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-24

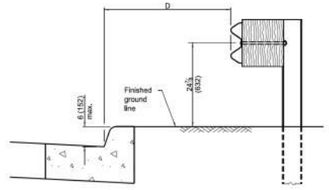
STEEL PLATE BEAM GUARDRAIL

(Sheet 3 of 4)

STANDARD 630001-13



0 ≤ D < 6 (150 m)

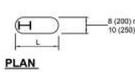


4'-0" (1.2 m) ≤ D ≤ 12'-0" (3.7 m)

GUARDRAIL PLACED BEHIND CURB

Note: 'D' shall not exceed 6 (152) for design speeds greater than 45 mph.

V	W	L	
		Steel Post	Wood Post
0 - 6 (0 - 152)	24 (610)	21 (530)	23 (580)
> 6 - 18 (> 152 - 458)	18 (458)	14½ (368)	16½ (419)
> 18 - 31 (> 458 - 787)	12 (305)	8 (203)	10 (250)
> 31 - 40⅝ (> 787 - 1.02 m)	12 - 0 (305 - 0)	8 (203)	10 (250)



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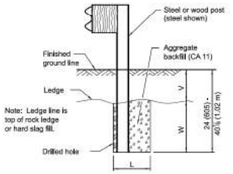
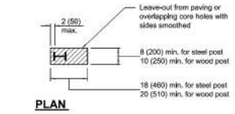
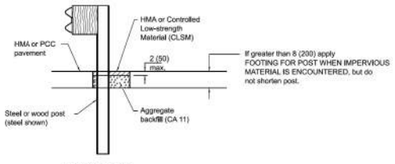


ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



PLAN



ELEVATION

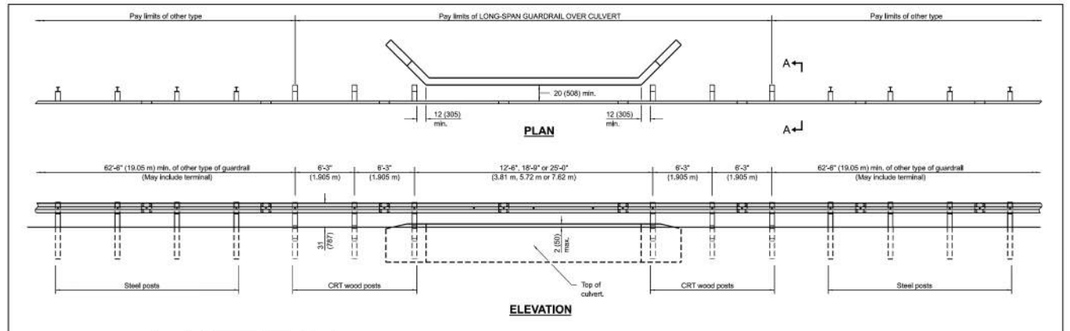
LEAVE-OUT FOR POST WHEN PAVED MATERIAL IS ENCOUNTERED

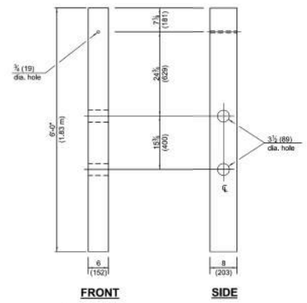
Illinois Department of Transportation
APPROVED January 1, 2024
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2024
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-24

STEEL PLATE BEAM GUARDRAIL

(Sheet 4 of 4)

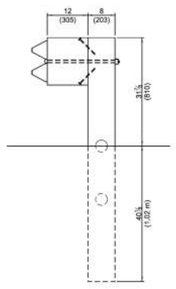
STANDARD 630001-13





FRONT **SIDE**

CRT WOOD POST



SECTION A-A

GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

Blockouts shown at steel posts shall be omitted when NON-BLOCKED STEEL PLATE BEAM GUARDRAIL is specified. See Standard 630006 for details not shown.

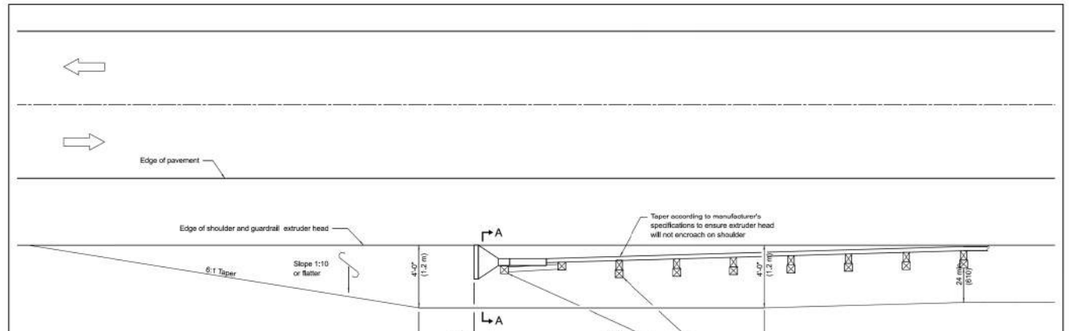
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-17	Revised general notes for non-blocked guardrail option. Revised pay limits.
1-1-13	Added min. dim. from guardrail to headwall. Added dim. to Section A-A.

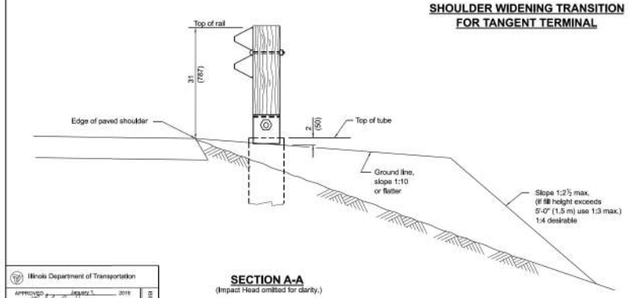
Illinois Department of Transportation
APPROVED January 1, 2017
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2017
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-17

LONG-SPAN GUARDRAIL OVER CULVERT

STANDARD 630106-02



SHOULDER WIDENING TRANSITION FOR TANGENT TERMINAL



SECTION A-A
(Impact Head omitted for clarity.)

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.

DATE	REVISIONS
1-1-19	Removed pay limits. Revised notes regarding the taper/flare and length of need point.
1-1-18	Omitted posts from 'Pay limits of other type'.

Illinois Department of Transportation
APPROVED January 1, 2019
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2018
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-19

SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS

(Sheet 1 of 2)

STANDARD 630301-09

V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

USER NAME = cwasowicz	DESIGNED -	REVISED -	REVISED -
	DRAWN -	REVISED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -	REVISED -
PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -

JOLIET

ROSALIND CULVERT REPLACEMENT

ILLINOIS

CONSTRUCTION DETAILS

SCALE: | SHEET 3 OF 8 SHEETS | STA. | TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	14

PROJECT NO. 240294

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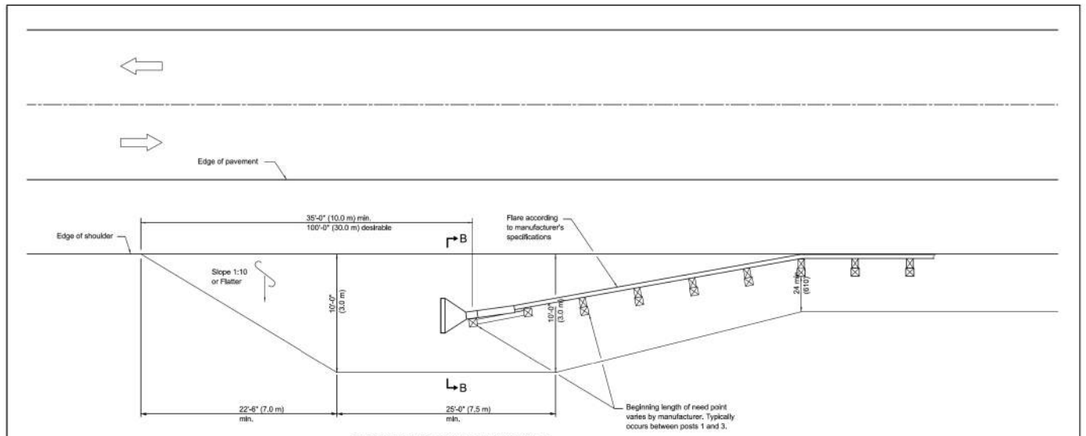
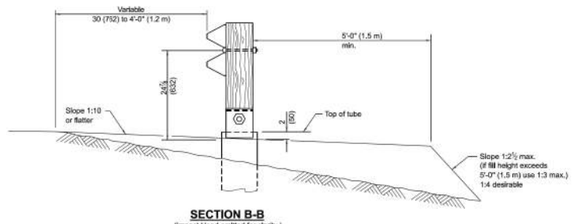


SHOULDER WIDENING TRANSITION FOR FLARED TERMINAL



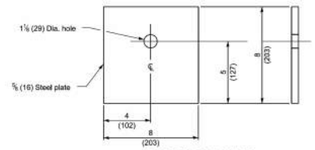
SECTION B-B
(Impact Head omitted for clarity.)

Illinois Department of Transportation
APPROVED January 1, 2019
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT
BDE/BSCE 1-1-19

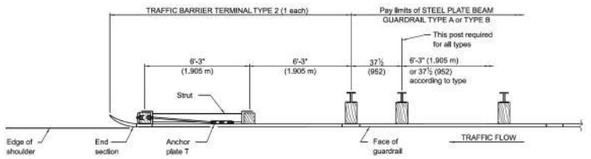
SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS

(Sheet 2 of 2)

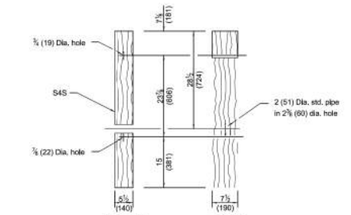
STANDARD 630301-09



BEARING PLATE K

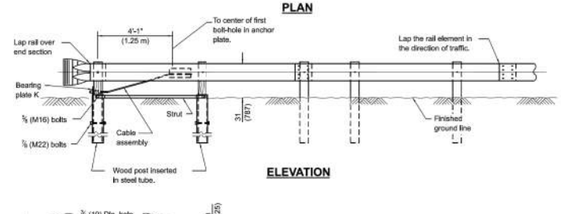


PLAN

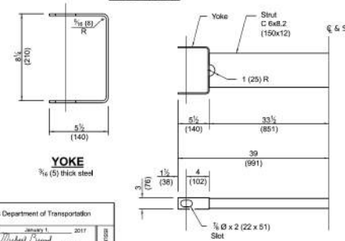


FRONT **SIDE**

WOOD POST

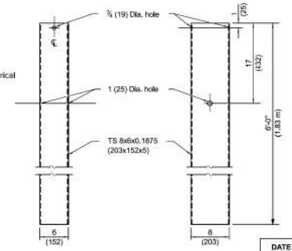


ELEVATION



YOKE
⅜ (5) thick steel

CABLE STRUT



FRONT **SIDE**

STEEL TUBE

GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

The bearing plate K shall be held in position by two eight penny nails driven into the post and bent over the top of the plate.

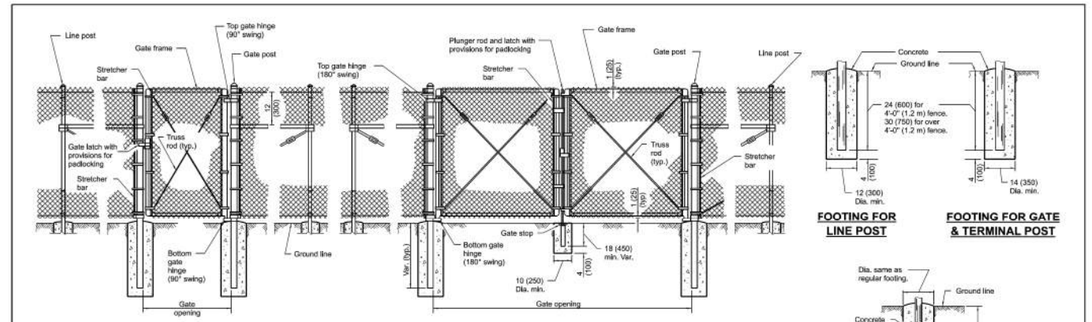
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-17	Revised wood post length and hole spacing.
1-1-13	Corrected metric dimension for BEARING PLATE K. Changed pipe dia. in wood post.

Illinois Department of Transportation
APPROVED January 1, 2017
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2017
ENGINEER OF DESIGN AND ENVIRONMENT
BDE/BSCE 1-1-17

TRAFFIC BARRIER TERMINAL, TYPE 2

STANDARD 631011-10

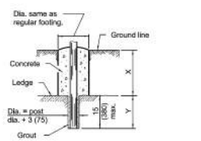


PEDESTRIAN GATE ARRANGEMENT

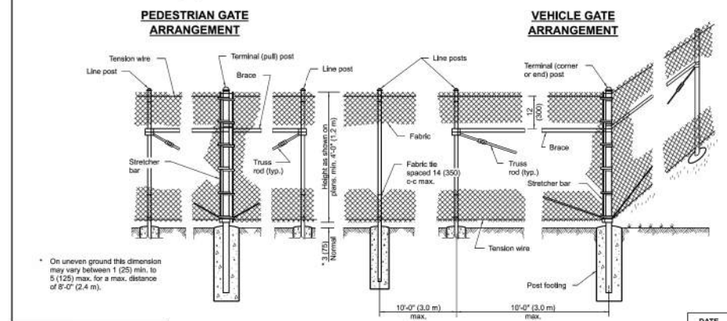
VEHICLE GATE ARRANGEMENT

FOOTING FOR LINE POST

FOOTING FOR GATE & TERMINAL POST



FOOTING FOR POST IN ROCK LEDGE



* On uneven ground this dimension may vary between 1 (25) min. to 5 (125) max. for a max. distance of 8'-0" (2.4 m).

PULL POST ARRANGEMENT

LINE POST ARRANGEMENT

CORNER OR END POST ARRANGEMENT

GENERAL NOTES

Pull posts shall be placed at locations determined by the Engineer. They shall be placed at 660' (200 m) intervals between posts to which the ends of the fabric are clamped or midway between such posts when the distance is less than 1320' (400 m) and greater than 660' (200 m).

X + Y shall not exceed 24 (600), 30 (750), or 36 (900), as applicable. When X is 0 - 9 (0 - 225), 15 (380), or 21 (525), then Y = 15 (375) and the post shall be shortened as required. When X exceeds 9 (225), 15 (380), or 21 (525), then Y shall be decreased correspondingly.

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

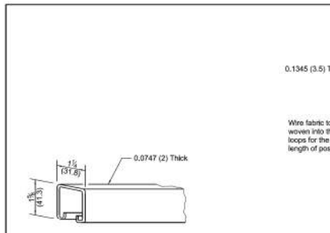
DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-99	Rev. "pans" to "plans" in LINE POST ARRANGEMENT.

Illinois Department of Transportation
APPROVED January 1, 2009
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT
BDE/BSCE 1-1-09

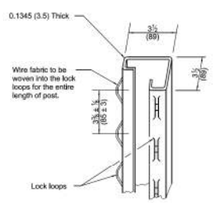
CHAIN LINK FENCE

(Sheet 1 of 3)

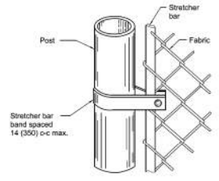
STANDARD 664001-02



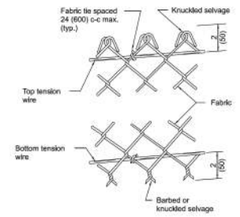
ROLL FORMED SECTION OF BRACE



ROLL FORMED SECTION OF TERMINAL & GATE POST



METHOD OF FASTENING STRETCHER BAR TO POST



METHOD OF TYING FABRIC TO TENSION WIRES

LINE POST	
Section	lbs./ft. (kg/m)
Pipe Type A 1.90 (48.3) O.D.	2.72 (4.05)
Pipe Type B 1.90 (48.3) O.D.	2.28 (3.39)
Pipe Type C 1.90 (48.3) O.D.	2.26 (3.36)
H 1.875x1.625 (47.6x41.3)	2.72 (4.05)
□	1.60 (2.38)
I	2.30 (3.42)

TERMINAL POST	
Section	lbs./ft. (kg/m)
Pipe Type A 2.375 (60.3) O.D.	3.65 (5.43)
Pipe Type B 2.375 (60.3) O.D.	3.11 (4.63)
Pipe Type C 2.375 (60.3) O.D.	3.09 (4.60)
Roll Formed 3½x3½ (89.0x89.0)	See detail
Sq. Tubing 2½x2½ (63.5x63.5)	4.32 (6.43)

HORIZONTAL BRACES	
Section	lbs./ft. (kg/m)
Pipe Type A 1.66 (42.2) O.D.	2.27 (3.38)
Pipe Type B 1.66 (42.2) O.D.	1.83 (2.72)
Pipe Type C 1.66 (42.2) O.D.	1.82 (2.71)
H 1.31x1.5 (33.3x38.1)	2.25 (3.35)
Roll Formed 1⅝x1¾ (41.3x31.8)	See detail

GATE FRAMES	
Section	lbs./ft. (kg/m)
Pipe Type A 1.66 (42.2) O.D.	2.27 (3.38)
Pipe Type B 1.66 (42.2) O.D.	1.83 (2.72)
Pipe Type C 1.66 (42.2) O.D.	1.82 (2.71)

GATE POSTS *						
Gate Opening * ft. (m)		Pipe Type A		Sq. Tubing		Pipe Type B
Single	Double	Size (O.D.)	lbs./ft. (kg/m)	Size	lbs./ft. (kg/m)	Size (O.D.) kg/m (lbs./ft.)
Up to 4 (1.2)	Up to 8 (2.5)	2.375 (60.3)	3.65 (5.43)	2½ (63.5)	4.32 (6.43)	2.375 (60.3) 3.11 (4.63)
Over 4 (1.2) to 8 (2.5)	Over 8 (2.5) to 16 (5.0)	2.875 (73.0)	5.79 (8.62)	3 (76.2)	5.78 (8.60)	2.875 (73.0) 4.64 (6.91)
Over 8 (2.5) to 12 (3.6)	Over 16 (5.0) to 24 (7.4)	3.5 (89.0)	7.58 (11.28)	3 (76.2)	8.80 (13.10)	3.5 (89) 5.707 (8.49)

* The 3½ x 3½ (89.0 x 89.0) roll formed section as detailed may be used as gate posts for single gate up to 6' (1.8 m) and double gate up to 12' (3.6 m).

Illinois Department of Transportation
APPROVED January 1, 2020
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2020
ENGINEER OF DESIGN AND ENVIRONMENT
BDE/BSCE 1-1-20

CHAIN LINK FENCE

(Sheet 2 of 3)

STANDARD 664001-02

V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

USER NAME = cwasowicz	DESIGNED -	REVISED -	REVISED -	
	DRAWN -	REVISED -	REVISED -	
PLOT SCALE =	CHECKED -	REVISED -	REVISED -	
PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -	

ROSALIND CULVERT REPLACEMENT
JOLIET ILLINOIS

CONSTRUCTION DETAILS
SCALE: SHEET 4 OF 8 SHEETS STA. TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	15

PROJECT NO. 240294

MODEL: Default
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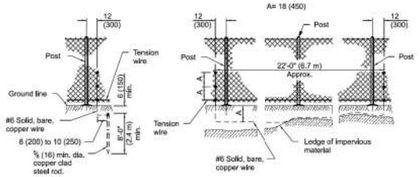
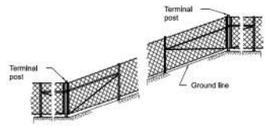


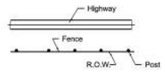
STANDARD GROUND

COUNTERPOISE GROUND (ALTERNATE)

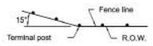
PROTECTIVE ELECTRICAL GROUNDS



INSTALLATION ON SLOPES



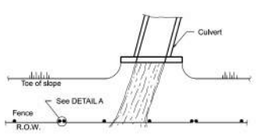
PLAN



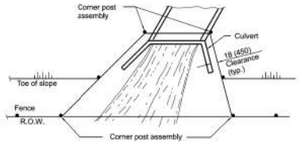
When fence line has a change in direction of 15° or more, a terminal post shall be placed as shown above.

Where angle is less than 15° and existing conditions require a terminal post, they shall be placed as directed by the Engineer.

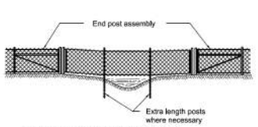
INSTALLATION AT CORNERS



PLAN
AT STREAM CROSSING

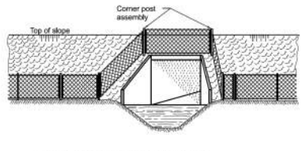


PLAN
AT HEADWALL



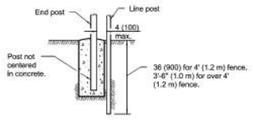
The chain link fabric shall be replaced by barbed wire strands at 12 (300) maximum centers between the double posts shown on DETAIL A when shown on the plans.

ELEVATION
INSTALLATION OVER STREAM



When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.

ELEVATION
INSTALLATION AROUND HEADWALL



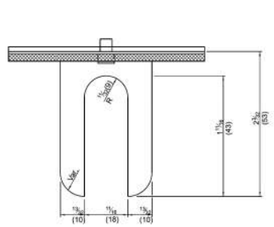
DETAIL A

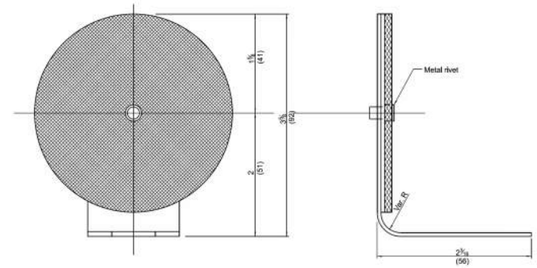
Illinois Department of Transportation
APPROVED January 1, 2020 — ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2020 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/SCD 1-1-20

CHAIN LINK FENCE

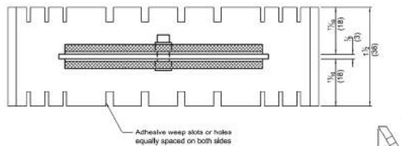
(Sheet 3 of 3)

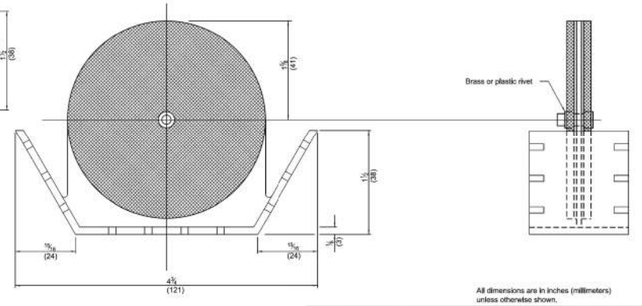
STANDARD 664001-02





REFLECTOR TYPE A
(monodirectional shown)





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

REFLECTOR TYPE B
(bidirectional shown)

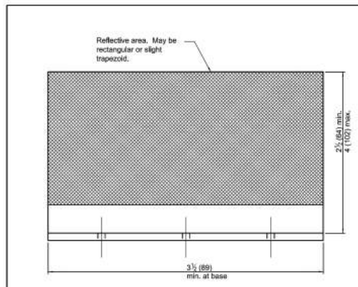
DATE	REVISIONS
1-1-20	Revised from F-shape to constant slope parapet, revised note 3 on sheet 3, and fix typo.
4-1-16	Added reflector spacing detail. Moved TERMINAL MARKER to std. 725001.

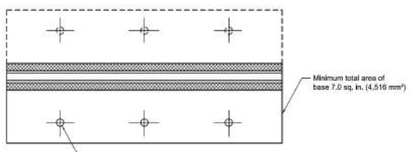
Illinois Department of Transportation
APPROVED January 1, 2020 — ENGINEER OF OPERATIONS
APPROVED January 1, 2020 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/SCD 1-1-20

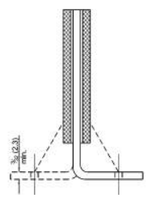
GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

(Sheet 1 of 3)

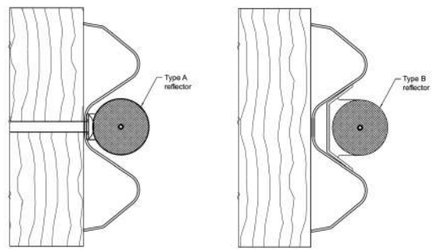
STANDARD 782006-01



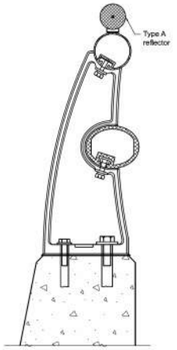




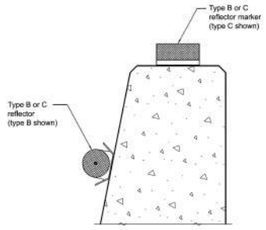
REFLECTOR TYPE C



TYPICAL MOUNTING DETAIL
FOR GUARDRAIL REFLECTOR



TYPICAL MOUNTING DETAIL
FOR BRIDGE RAIL REFLECTOR



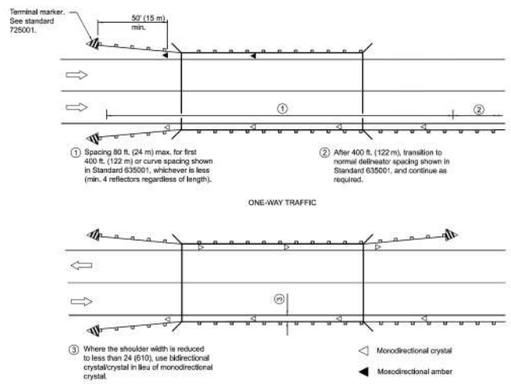
TYPICAL MOUNTING DETAIL
FOR BARRIER WALL REFLECTOR

Illinois Department of Transportation
APPROVED January 1, 2020 — ENGINEER OF OPERATIONS
APPROVED January 1, 2020 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/SCD 1-1-20

GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

(Sheet 2 of 3)

STANDARD 782006-01



GUARDRAIL / BARRIER WALL REFLECTOR PLACEMENT DETAIL

Illinois Department of Transportation
APPROVED January 1, 2020 — ENGINEER OF OPERATIONS
APPROVED January 1, 2020 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/SCD 1-1-20

GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

(Sheet 3 of 3)

STANDARD 782006-01

V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

USER NAME = cwasowicz	DESIGNED -	REVISED -	REVISED -	ROSALIND CULVERT REPLACEMENT
	DRAWN -	REVISED -	REVISED -	
PLOT SCALE =	CHECKED -	REVISED -	REVISED -	
PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -	JOLIET ILLINOIS

CONSTRUCTION DETAILS

SCALE: | SHEET 5 OF 8 SHEETS | STA. | TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	16
PROJECT NO. 240294		

MODEL: Default
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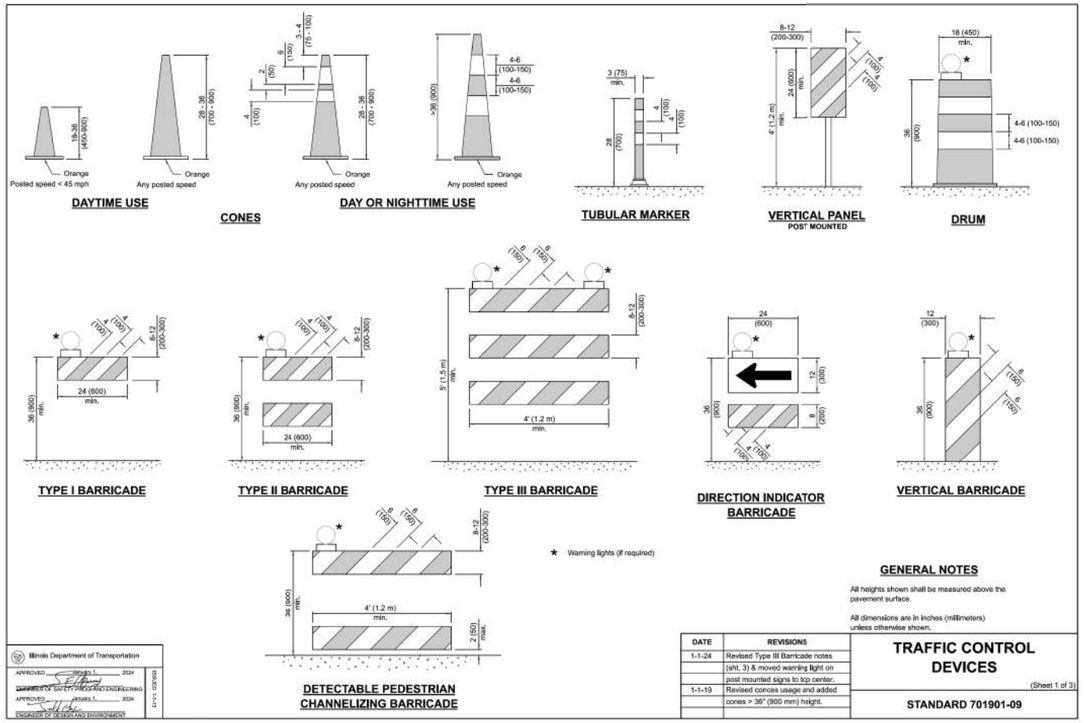
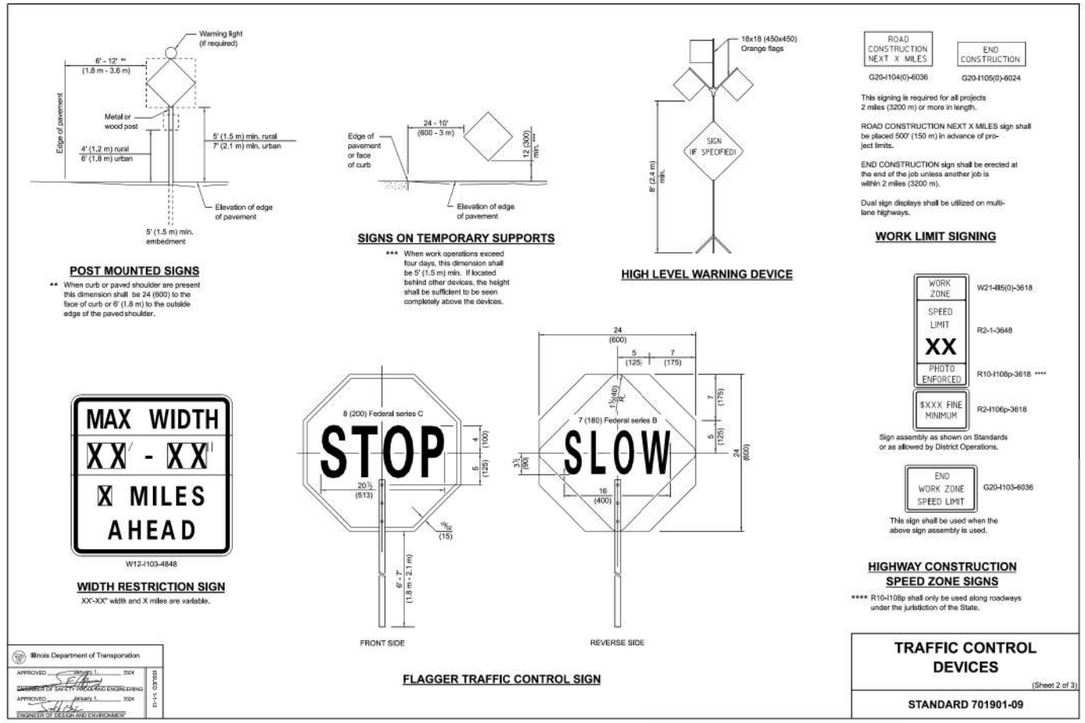
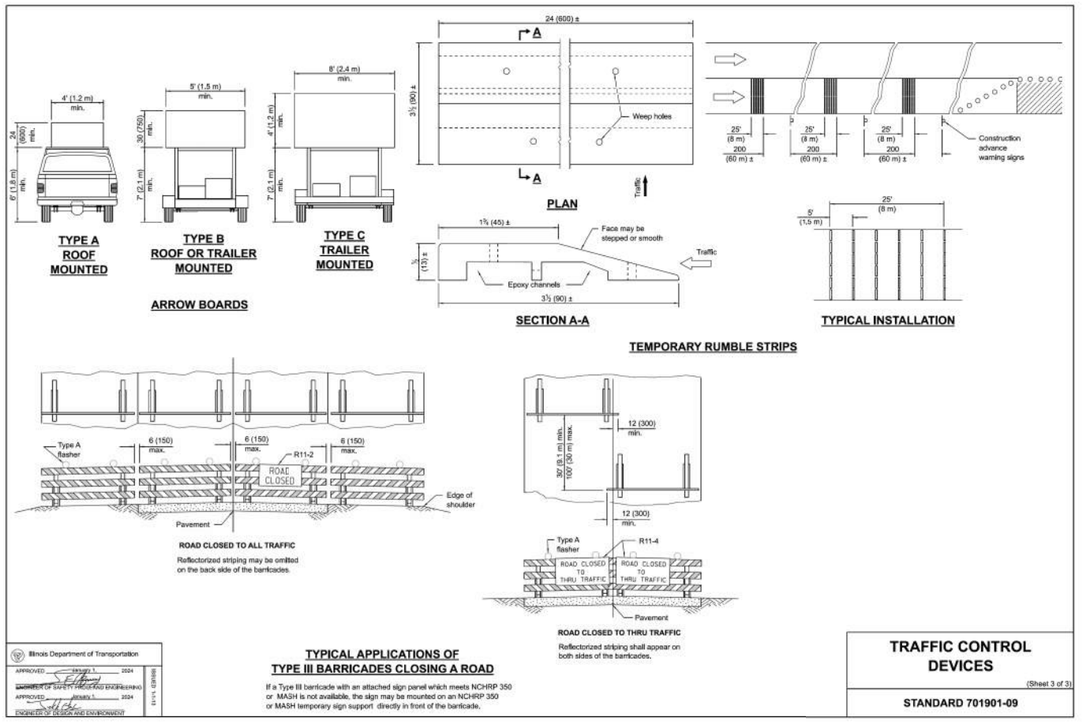
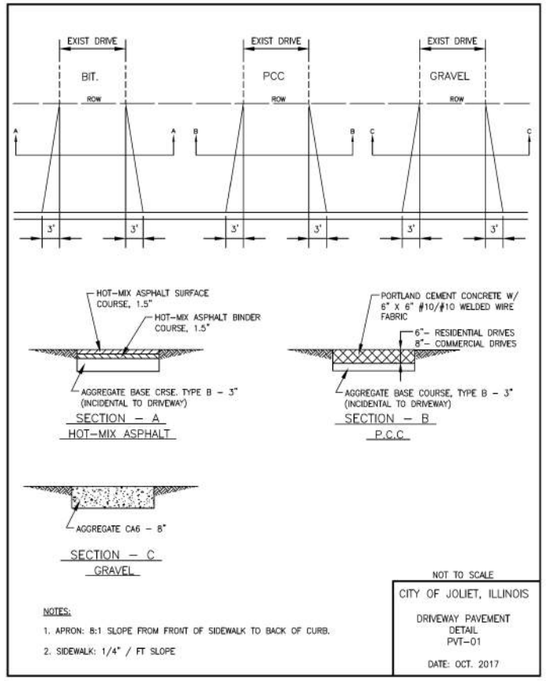
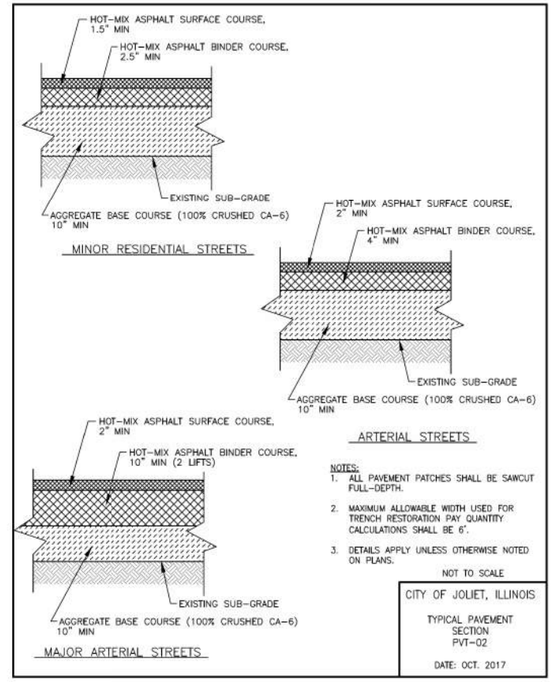

DAYTIME USE
Orange
Posted speed < 45 mph
Any posted speed
CONES
DAY OR NIGHTTIME USE
Any posted speed
TUBULAR MARKER
VERTICAL PANEL
POST MOUNTED
DRUM
TYPE I BARRICADE
TYPE II BARRICADE
TYPE III BARRICADE
DIRECTION INDICATOR BARRICADE
VERTICAL BARRICADE
DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE
★ Warning lights (if required)
GENERAL NOTES
All heights shown shall be measured above the pavement surface.
All dimensions are in inches (millimeters) unless otherwise shown.
Illinois Department of Transportation
APPROVED
ENGINEER OF DESIGN AND ENVIRONMENT
DATE REVISIONS
1-1-24 Revised Type III Barricade notes
(shl, 3) & moved warning light on post mounted signs to top center.
1-1-19 Revised conces usage and added cones > 36" (900 mm) height.
TRAFFIC CONTROL DEVICES
(Sheet 1 of 3)
STANDARD 701901-09

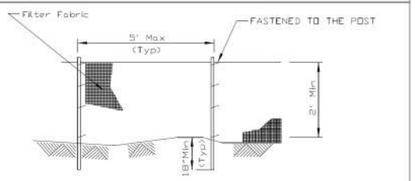

Warning light (if required)
6' - 12' **
(1.8 m - 3.6 m)
Edge of pavement
Metal or wood post
4' (1.2 m) rural
6' (1.8 m) urban
5' (1.5 m) min. rural
7' (2.1 m) min. urban
Elevation of edge of pavement
5' (1.5 m) min. embedment
POST MOUNTED SIGNS
** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.
Edge of pavement or face of curb
24 - 10'
(600 - 3 m)
12 (300) min. ***
Elevation of edge of pavement
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.
18x18 (450x450) Orange flags
SIGN (IF SPECIFIED)
8' (2.4 m) min.
HIGH LEVEL WARNING DEVICE
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-I85(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 jurisdiction of the State.
MAX WIDTH
XX' - XX"
X MILES AHEAD
W12-I103-4848
WIDTH RESTRICTION SIGN
XX'-XX" width and X miles are variable.
8 (200) Federal series C
STOP
FRONT SIDE
7 (180) Federal series B
SLOW
REVERSE SIDE
FLAGGER TRAFFIC CONTROL SIGN
Illinois Department of Transportation
APPROVED
ENGINEER OF DESIGN AND ENVIRONMENT
TRAFFIC CONTROL DEVICES
(Sheet 2 of 3)
STANDARD 701901-09


TYPE A ROOF MOUNTED
TYPE B ROOF OR TRAILER MOUNTED
TYPE C TRAILER MOUNTED
ARROW BOARDS
PLAN
Weep holes
Traffic
Construction advance warning signs
SECTION A-A
Face may be stepped or smooth
Epoxy channels
TYPICAL INSTALLATION
TEMPORARY RUMBLE STRIPS
Type A flasher
ROAD CLOSED
R11-2
Edge of shoulder
Pavement
ROAD CLOSED TO ALL TRAFFIC
Reflectorized striping may be omitted on the back side of the barricades.
R11-4
ROAD CLOSED TO THRU TRAFFIC
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.
Illinois Department of Transportation
APPROVED
ENGINEER OF DESIGN AND ENVIRONMENT
TRAFFIC CONTROL DEVICES
(Sheet 3 of 3)
STANDARD 701901-09

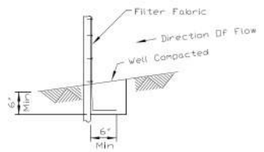

EXIST DRIVE
BIT.
PCC
GRAVEL
ROW
HOT-MIX ASPHALT SURFACE COURSE, 1.5"
HOT-MIX ASPHALT BINDER COURSE, 1.5"
AGGREGATE BASE CRSE, TYPE B - 3" (INCIDENTAL TO DRIVEWAY)
SECTION - A
HOT-MIX ASPHALT
PORTLAND CEMENT CONCRETE W/ 6" X 6" #10/#10 WELDED WIRE FABRIC
6"- RESIDENTIAL DRIVES
8"- COMMERCIAL DRIVES
AGGREGATE BASE COURSE, TYPE B - 3" (INCIDENTAL TO DRIVEWAY)
SECTION - B
P.C.C.
AGGREGATE CA6 - 8"
SECTION - C
GRAVEL
NOTES:
1. APRON: 8:1 SLOPE FROM FRONT OF SIDEWALK TO BACK OF CURB.
2. SIDEWALK: 1/4" / FT SLOPE
NOT TO SCALE
CITY OF JOLIET, ILLINOIS
DRIVEWAY PAVEMENT DETAIL
PVT-01
DATE: OCT. 2017


HOT-MIX ASPHALT SURFACE COURSE, 1.5" MIN
HOT-MIX ASPHALT BINDER COURSE, 2.5" MIN
EXISTING SUB-GRADE
AGGREGATE BASE COURSE (100% CRUSHED CA-6) 10" MIN
MINOR RESIDENTIAL STREETS
HOT-MIX ASPHALT SURFACE COURSE, 2" MIN
HOT-MIX ASPHALT BINDER COURSE, 4" MIN
EXISTING SUB-GRADE
AGGREGATE BASE COURSE (100% CRUSHED CA-6) 10" MIN
ARTERIAL STREETS
HOT-MIX ASPHALT SURFACE COURSE, 2" MIN
HOT-MIX ASPHALT BINDER COURSE, 10" MIN (2 LIFTS)
EXISTING SUB-GRADE
AGGREGATE BASE COURSE (100% CRUSHED CA-6) 10" MIN
MAJOR ARTERIAL STREETS
NOTES:
1. ALL PAVEMENT PATCHES SHALL BE SAWCUT FULL-DEPTH.
2. MAXIMUM ALLOWABLE WIDTH USED FOR TRENCH RESTORATION PAY QUANTITY CALCULATIONS SHALL BE 6'.
3. DETAILS APPLY UNLESS OTHERWISE NOTED ON PLANS.
NOT TO SCALE
CITY OF JOLIET, ILLINOIS
TYPICAL PAVEMENT SECTION
PVT-02
DATE: OCT. 2017

SILT FENCE PLAN



ELEVATION



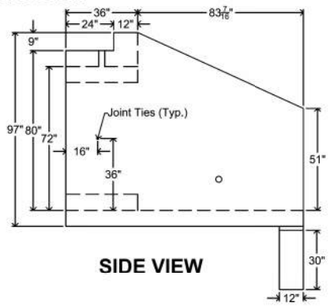
FABRIC ANCHOR DETAIL

NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1, Class 2.
3. Fence posts shall be either standard steel post or wood post 2" X 2" nominal.

REFERENCE		STANDARD SHEET NO.
Project		IUM-620A
Designed ____ Date ____		SHEET 1 OF 2
Checked ____ Date ____		DATE 04-15-2021
Approved ____ Date ____		

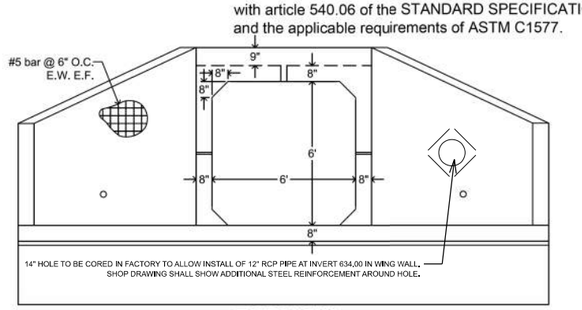
HS-20 Loading (HL-93) Concrete: Fc prime = 6000 PSI

Depth of Cover:

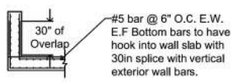


SIDE VIEW

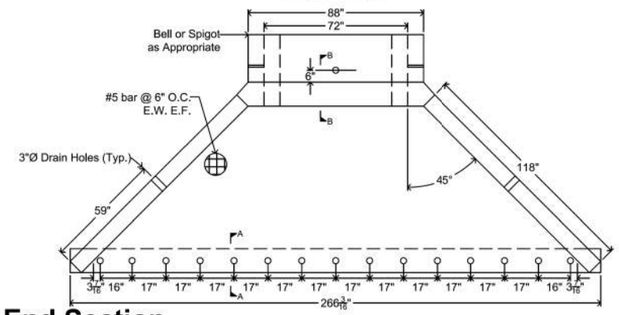
Structure shall be constructed in accordance with article 540.06 of the STANDARD SPECIFICATIONS and the applicable requirements of ASTM C1577.



END VIEW



WALL REINFORCEMENT



PLAN VIEW

Rebar shall be in accordance with article 1006.10 of the STANDARD SPECIFICATIONS.
Rebar shall meet the requirements of ASTM A 706 Grade 60.
Concrete shall have a compressive strength of 6,000psi at 28 days.
Provide 2in cover typ

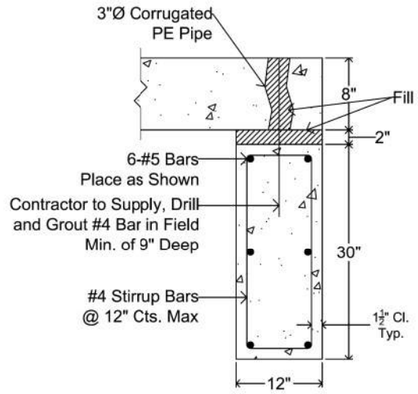
Drawn By: MAD			
Checked By:	**6' X 6' Apron End Section**		
Date:	**CONTRACTOR:**	**CONTRACT #:**	
Revisions: Name / Date	**JOB NAME:**	**SECTION #:**	
	JOB LOCATION:	**SN:**	
	COUNTY,STATE:	**Approx. Weight: 33,830#/each End, 9,360#/each Apron Toe Block**	

SCALE: NTS

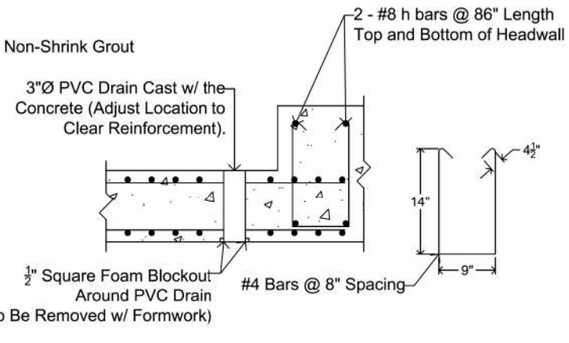
WELCH BROS., INC.
Page 1 of 2

HS-20 Loading (HL-93) Concrete: Fc prime = 6000 PSI

Depth of Cover:



Section A-A



Section B-B

Structure shall be constructed in accordance with article 540.06 of the STANDARD SPECIFICATIONS and the applicable requirements of ASTM C1577.

Rebar shall be in accordance with article 1006.10 of the STANDARD SPECIFICATIONS.
Rebar shall meet the requirements of ASTM A 706 Grade 60.
Concrete shall have a compressive strength of 6,000psi at 28 days.

Drawn By: MAD			
Checked By:	**6' X 6' Apron End Section**		
Date:	**CONTRACTOR:**	**CONTRACT #:**	
Revisions: Name / Date	**JOB NAME:**	**SECTION #:**	
	JOB LOCATION:	**SN:**	
	COUNTY,STATE:	**Approx. Weight: 9,360#/ each Apron Toe Block**	

SCALE: NTS

WELCH BROS., INC.
Page 2 of 2

V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

USER NAME = cwasowicz	DESIGNED -	REVISED -	REVISED -
	DRAWN -	REVISED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -	REVISED -
PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -

ROSALIND CULVERT REPLACEMENT
JOLIET ILLINOIS

CONSTRUCTION DETAILS
SCALE: | SHEET 7 OF 8 SHEETS | STA. | TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	18
PROJECT NO. 240294		

MODEL: Default
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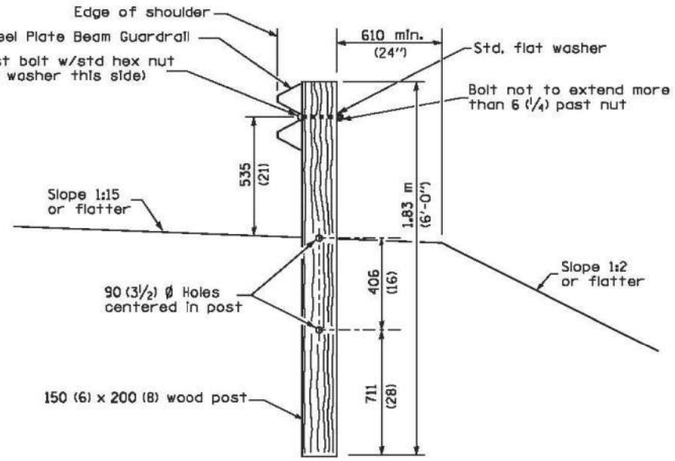
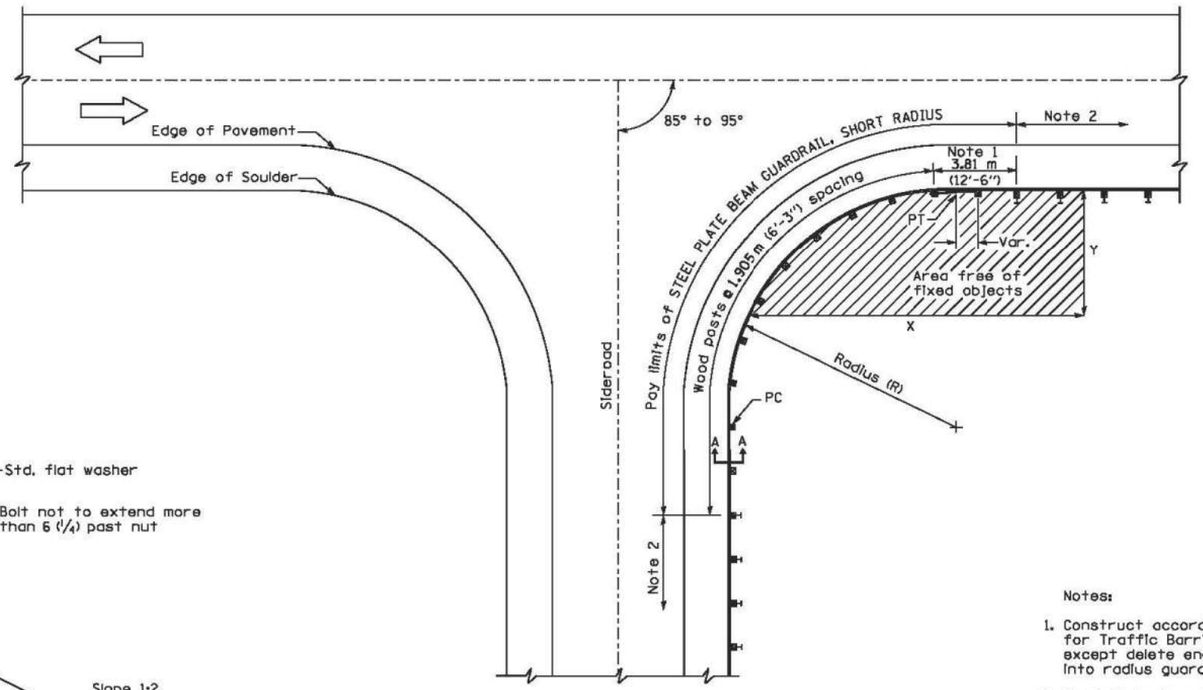


SECTION A-A



PLAN

Notes:

1. Construct according to Standard 631011 for Traffic Barrier Terminal Type 2, except delete end section and splice into radius guardrail.
2. Steel Plate Beam Guardrail Type A, Type B, or Traffic Barrier Terminal as specified.
3. For the 2.59 m (8'-6") radius, the rail is not bolted to the post located at the midpoint of the curve.

INSTALLATION CHARACTERISTICS PER DESIGN RADIUS (R)			
R	NO. OF WOOD POSTS	X	Y
2.59 (8'-6")	5 (Note 3)	7.6 m (25')	4.6 (15')
5.18 (17'-0")	6	9.1 m (30')	4.6 (15')
7.77 (25'-6")	8	12.2 m (40')	6.1 (20')
10.67 (35'-0")	11	15.2 m (50')	6.1 (20')

GENERAL NOTES

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

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

STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)

V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

USER NAME = cwasowicz	DESIGNED -	REVISED -	REVISED -
	DRAWN -	REVISED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -	REVISED -
PLOT DATE = 12/6/2024	DATE -	REVISED -	REVISED -

ROSALIND CULVERT REPLACEMENT
JOLIET ILLINOIS

CONSTRUCTION DETAILS
SCALE: SHEET 8 OF 8 SHEETS STA. TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	19	19
PROJECT NO. 240294		

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