

GENERAL NOTES

PAVING

THE THICKNESS OF HMA MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, 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 HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

SEWER AND WATER MAIN

THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED AT ALL TIMES DURING AND AFTER THE CONSTRUCTION. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE OF THE APPLICABLE DRAINAGE ITEMS.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, OR CATCH BASINS. CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE SAME. CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT ROADSIDE DRAINAGE SYSTEM IS BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

BEFORE ORDERING PIPE CULVERTS OR STORM SEWERS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PROPOSED STORM SEWER ITEMS.

ANY LOOSE MATERIAL DEPOSITED IN THE FLOWLINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THE CONTRACT SHALL HAVE ONE OF THE FOLLOWING WORDS CAST INTO THE LID: "STORM" (FOR STORM SEWER STRUCTURES), "SANITARY" (FOR SANITARY SEWER STRUCTURES), OR "WATER" (FOR WATER SYSTEM STRUCTURES). ANY ADDITIONAL COST FOR THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE FRAMES AND CLOSED LIDS PROVIDED.

FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION AND CROSS SLOPE OF THE AREA IN WHICH THEY ARE LOCATED.

PROPOSED END SECTIONS SHALL BE SLOPED TO MATCH THE PROPOSED STORM SEWER AND CULVERT PIPE SLOPES, UNLESS OTHERWISE NOTED.

THE PROPOSED DRAINAGE STRUCTURES AND PIPES SHALL BE PROTECTED FROM SEDIMENT IMMEDIATELY AFTER THEY ARE CONSTRUCTED UNTIL THE SURFACES THAT DRAIN TO THEM ARE FULLY PAVED OR VEGETATED.

ALL CURB BOXES TO BE FURNISHED AS PART OF THE CONTRACT SHALL HAVE THE ENVIRONMENTAL NOTICE CAST INTO THE CURB BOX, STATING "DUMP NO WASTE, DRAINS TO FRESH WATER" ANY ADDITIONAL COST FOR THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE FRAMES AND GRATES PROVIDED.

ALL OPEN LIDS TO BE FURNISHED AS PART OF THE CONTRACT SHALL BE ADA COMPLIANT.

STAKING

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN ALONG RETURNS AND AT POINTS OF CURVATURE, ETC. ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

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

UNLESS OTHERWISE NOTED, THE OFFSETS FOR DRAINAGE STRUCTURES WITHIN THE CURB ARE MEASURED TO THE EDGE OF PAVEMENT. THE OFFSETS FOR ALL OTHER DRAINAGE STRUCTURES ARE MEASURED TO THE CENTER OF THE STRUCTURE.

ALL ELEVATIONS ARE ON THE NGVD 29 DATUM.

MISCELLANEOUS

DETECTABLE WARNING SURFACES SHALL EXTEND 2.0 FT MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL. AT CURB RAMP AND BLENDED TRANSITIONS, DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE RAMP RUN (EXCLUDING ANY FLARES) OR BLENDED TRANSITIONS. SOME DETECTABLE WARNING PRODUCTS REQUIRE A CONCRETE BORDER FOR PROPER INSTALLATION. THE CONCRETE BORDER SHALL NOT EXCEED 2 INCHES.

THE CONTRACTOR SHALL MAINTAIN EXISTING SIDE STREET AND DRIVEWAY ACCESS TO EACH ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THE CONTRACT.

WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDDED WILL BE DETERMINED BY THE ENGINEER.

ANY REFERENCE TO A STANDARD THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS INCLUDED IN THESE PLANS.

THE REMOVAL OF AGGREGATE SHOULDERS AND ENTRANCES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR EARTH EXCAVATION.

SAW CUTTING WILL BE REQUIRED FOR ALL REMOVAL ITEMS LISTED IN SECTION 440 OF THE STANDARD SPECIFICATIONS, SHOWN IN THE PLANS, AND AS DIRECTED BY THE ENGINEER. THE COST OF SAW CUTTING WILL BE INCLUDED IN CONTRACT UNIT BID PRICES FOR THE ITEMS BEING REMOVED.

THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.

THE SUBGRADE SHALL BE KEPT DRAINED DURING CONSTRUCTION OF THE PAVEMENT STRUCTURE. THE CONTRACTOR SHALL FACILITATE SURFACE DRAINAGE BY CUTTING WEEPS IN THE SUBGRADE OR ADJACENT TERRAIN AS NECESSARY. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE PRESERVATION OF EXISTING TREES IS OF THE UTMOST IMPORTANCE. ALL TREE PROTECTION, TREE REMOVAL, PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER. PRUNING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CALCULATED EARTH EXCAVATION = 641 CU YD
CALCULATED FILL AREAS = 338 CU YD
BALANCE = 303 CU YD

~~QUANTITY FOR NON-SPECIAL WASTE DISPOSAL HAVE BEEN INCLUDED IN THE EVENT THAT WILL BE NECESSARY TO COMPLETE THE PROJECT. THIS ITEMS SHALL NOT BE USED UNLESS APPROVED BY THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ITEMS / QUANTITIES NOT USED.~~

THE DISTURBANCE OF AREAS ADJACENT TO THE SIDEWALK REMOVAL AND REPLACEMENT SHALL BE KEPT TO A MINIMUM AND WILL NOT BE ALLOWED OUTSIDE THE LIMITS OF THE SIDEWALK. EXCAVATION SHALL NOT TAKE PLACE UNLESS APPROVED BY THE ENGINEER. ANY EXCAVATION BEYOND THE LIMITS OF THE SIDEWALK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

BENCHMARKS

SOUTHEAST TAG BOLT ON FIRE HYDRANT AT THE SOUTHWEST CORNER OF LEW AND NORTH STREETS. ELEVATION: 654.57 (NAVD 88)

NORTHWEST BURY BOLT ON FIRE HYDRANT AT THE NORTHWEST CORNER OF LEW AND LEE STREETS. ELEVATION: 650.03 (NAVD 88)

SOUTHEAST TAG BOLT ON FIRE HYDRANT AT THE SOUTHWEST CORNER OF LEW AND CHURCH STREETS. ELEVATION: 653.22 (NAVD 88)

UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.

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 CONSIDERED AS INCLUDED IN THE COST OF EARTH EXCAVATION.

THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
BITUMINOUS MAT (PRIME COAT)	0.05	LBS / SO FT (MILLED HMA/AGED HMA)
	0.025	LBS / SO FT (HMA LIFTS)
	0.25	LBS / SO FT (AGGREGATE)
HMA RESURFACING	112	LBS / SO YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION

HMA MIXTURE REQUIREMENTS

	HMA POLYMERIZED LEVEL BINDER (LEW STREET)	HMA SURFACE (LEW STREET)
PG GRADE	PG64-22	PG64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 4.75	IL 9.5
FRICTION AGGREGATE		MIXTURE C
MIXTURE WEIGHT	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM	QCOA	QCOA
SUBLOT SIZE	NA	NA
DENSITY TEST METHOD	% GROWTH CURVE	CORES

MATERIAL SHALL BE COMPACTED TO 93.0 - 97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QA/QC SPECIFICATION.

WHEN MORE THAN 20% RAP IS USED, A SOFTER ASPHALT BINDER (PG58-22) MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.

PLAN	DATE	BY

PROFILE	DATE	BY

HRG PROJECT NO.: 80624
HRG PROJ. CONTACT: 624.OpenDwg@hr-g.com
FILE NAME: C:\proj\040616\p16g
CLOTTER: PEN TABLE: P16060229



USER NAME = mfaller	DESIGNED - DD	REVISED - 4/14/2020
PLOT SCALE =	DRAWN - DD	REVISED -
PLOT DATE = 2/13/2020	CHECKED - MJF	REVISED -
	DATE - 1/3/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX /HIGHWAY STANDARDS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
6473	15-00044-00-FP	KENDALL	29	2
CONTRACT NO. 87702				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	BY	SURVEYED	ALIGNED	CHECKED
PLAN	NOTE BOOK	NO.	NO.	NO.

DATE	BY	GRADES	PLOTTED	STRUCTURE	NOTATION
PROFILE	NOTE BOOK	NO.	NO.	NO.	NO.

HRC PROJECT NO. 180624
 HRC PROJ CONTACT: 624.sum@hr.com
 FILE NAME: 15_00044-00-FP
 PLOT DRIVER: plott_driver
 PEN TABLE:

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	641
20800150	TRENCH BACKFILL	CU YD	10
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,204
25000110	SEEDING, CLASS 1A	ACRE	0.3
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	27
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	27
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	27
25100630	EROSION CONTROL BLANKET	SQ YD	1,204
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50
28000510	INLET FILTERS	EACH	17
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	2,135
31101810	SUBBASE GRANULAR MATERIAL, TYPE B 12"	SQ YD	805
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	4,701
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	439
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	837
40600990	TEMPORARY RAMP	SQ YD	288
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	585
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	441
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	15,240
42400800	DETECTABLE WARNINGS	SQ FT	638
44000100	PAVEMENT REMOVAL	SQ YD	292
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	441
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	4,559
44000600	SIDEWALK REMOVAL	SQ FT	15,071
44201713	CLASS D PATCHES, TYPE 1, 6 INCH	SQ YD	75
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	100
56109210	WATER VALVES TO BE ADJUSTED	EACH	3
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	5
60255500	MANHOLES TO BE ADJUSTED	EACH	33
60404805	FRAMES AND GRATES, TYPE 11V	EACH	13

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY
60406200	FRAMES AND LIDS, TYPE 5, OPEN LID	EACH	2
60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	4,559
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	303
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
67100100	MOBILIZATION	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	925
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	308
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1,250
Δ 70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	336
Δ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,138
Δ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	336
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	178
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	27
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	6,965
X6023840	REMOVE & RELOCATE INLETS	EACH	15
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	1,500
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	200

Δ SPECIALTY ITEMS



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PLOT SCALE =	CHECKED - MJF	REVISED -
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SUMMARY OF QUANTITIES

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