

STANDARD CONSTRUCTION DRAWINGS					
THE CURRENT STANDARD CONSTRUCTION DRAWINGS FOR EACH MUNICIPALITY OR UTILITY LISTED BELOW SHALL BE CONSIDERED AS PART OF THIS SET THEREOF.					
WVDOH	CITY OF WHEELING				
DR-2 (SHEETS 1-4) DR-6A DR-6B	TYPE A TRENCH TYPE D TRENCH				



INDEX MAP 150 SCALE: 1" = 150'

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THE PLANS.









GENERAL

- ALL ITEMS FOR THIS PROJECT SHALL CONFORM TO THE 2023 EDITION OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS (WV DOH) STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES SHALL GOVERN THIS IMPROVEMENT, EXCEPT WHERE NOTED. ALL REFERENCES TO SECTION NUMBERS IN THE FOLLOWING ITEMS REFER TO THE AFOREMENTIONED STANDARD SPECIFICATIONS.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS NECESSARY TO COORDINATE FULL-TIME INSPECTION SERVICE FOR THE PROPOSED WORK.
- 3. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO ENGINEER AT LEAST SEVEN (7) DAYS PRIOR TO ANY CONSTRUCTION.
- . TWENTY-FOUR (24) HOUR ADVANCE NOTIFICATION IS REQUIRED FOR ALL WORK REQUIRING INSPECTION, TESTING, OR APPROVAL BY THE ENGINEER.
- 5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND VERIFY THE EXTENT OF THE WORK TO BE PERFORMED PRIOR TO MAKING HIS BID, INCLUDING BUT NOT LIMITED TO THE REMOVAL OF ANY AND ALL ITEMS.
- 6. THE CONTRACTOR AND SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN 39. ITEM 609002- BED COURSE MATERIAL, THIS CONNECTION WITH THE WORK. THE CONTRACTOR AND SUBCONTRACTOR SHALL ALSO ABIDE BY ALL CITY ORDINANCES AND STATE/FEDERAL LAWS. THE CONTRACTORS AND ALL SUBCONTRACTORS SHALL SUBMIT THEIR SAFETY PLANS PRIOR TO CONSTRUCTION. A COMPLETE SET OF PLANS, SPECIFICATIONS AND SAFETY PLAN MUST BE ON THE JOB SITE AT ALL TIMES AND AVAILABLE FOR VIEWING.
- IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOILS OR NOXIOUS FUMES, OPERATIONS SHOULD BE CEASED IMMEDIATELY.

EXISTING UTILITIES

- 8. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL CLEARANCES EXIST PER THE APPROVED PLANS. THE CONTRACTOR SHALL CALL, TOLL FREE, THE WEST VIRGINIA 8110R 1-800-245-4848 (WEB SITE WWW.WV811.COM) FORTY-EIGHT (48) HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CITY AND/OR ENGINEER OF RECORD (EOR) ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OF THE LOCATIONS OR 42. ROADWAYS SHALL ONLY BE CLOSED ONE DEPTHS OF THE UNDERGROUND FACILITIES AS SHOWN ON THE PLANS. CONTRACTOR MUST GIVE ADEQUATE NOTICE TO THE APPROPRIATE UTILITY COMPANY BEFORE ANY EXCAVATION NEAR A KNOWN UTILITY PER STATE LAW. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED 43. THE CONTRACTOR SHALL COORDINATE IN IMPROVEMENTS.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
- 11. THE CONTRACTOR SHALL LOCATE (MARK) ALL EX. UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE EXCAVATION/INSTALLATION OF THE PROPOSED SEWER
- 12. WHERE POTENTIAL CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF LAYING PIPE OR DUCT FOR THE EOR TO DETERMINE THE EXACT 45. 8" SANITARY SEWER PIPE SHALL BE PVC S ELEVATION AND MAKE ANY NECESSARY ADJUSTMENTS. COST OF THE ABOVE SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS IN THE CONTRACT.
- 13. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY AND ALL EXISTING WORK DAMAGED DURING OR DUE TO THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION PRIOR TO THE DAMAGE, AT THE CONTRACTOR'S OWN EXPENSE. ALL SAID WORK TO BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE TO OTHER UTILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE APPROPRIATE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
- 14. ANY EXISTING UTILITY (GAS, ELECTRIC, CABLE TELEVISION, TELEPHONE, WATER LINE, STORM OR SANITARY APPURTENANCE, ETC.) IN OR OUTSIDE THE CONSTRUCTION LIMITS DAMAGED DURING THE CONSTRUCTION OF THE PROPOSED PROJECT, WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE UTILITY.
- 15. TEMPORARY RELOCATION OF ELECTRICAL UTILITIES, INCLUDING RESTRAINT OF POLES, RELOCATION OF POLES, AND RUBBER COVERING OF ENERGIZED CONDUCTORS MAY BE REQUIRED. THE COORDINATION AND COST OF THESE SERVICES 48. ITEM 604052 - PLASTIC SEWER PIPE SHALL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MA RESTRAIN POLES IF THE METHOD OF SUPPORT HAS BEEN SUBMITTED TO AND APPROVED BY THE UTILITY COMPANY.
- 16. THE UTILITY WILL ONLY LOCATE AND MARK MAIN LINE SEWERS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATIONS ALL SERVICE LATERALS WHETHER SHOWN ON PLANS OR NOT.

EXISTING CONDITIONS

- 17. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS AND STAKES SHALL CONFORM TO SECTION 605 OF THE AND IN CASE OF WILLFUL OR CARELESS DESTRUCTION, HE SHALL BE CHARGED WITH THE RESULTING EXPENSE OF REPLACEMENT AND SHALL BE RESPONSIBLE FOR ANY MISTAKES THAT MAY BE CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE. ANY EXISTING PROPERTY CORNER PINS OR MONUMENTS DAMAGED OR DESTROYED BY CONSTRUCTION SHALL BE RESET BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE UPON COMPLETION OF THE PROJECT PRIOR TO 51. COST OF ALL LABOR, MATERIALS, AND EQU FINAL PAYMENT. A CERTIFICATION SHALL BE FURNISHED BY A WV REGISTERED SURVEYOR, STATING THAT SAID DAMAGES PAVEMENT IN ACCORDANCE OF THE DETA HAVE BEEN RESTORED. THE CONTRACTOR SHALL PROVIDE SITE EROSION CONTROL TO PREVENT RUNOFF WATER FROM THE SITE FROM CARRYING SAND, SILT, DIRT, ETC. ONTO PRIVATE PROPERTY, OR INTO ANY STORM SEWER OR DRAINAGE 52. ALL MANHOLES LIDS SHALL BE INSTALLED CHANNEL. EROSION CONTROL SHALL CONFORM WITH THE REQUIREMENTS OF SPECIFICATIONS AND DRAWINGS.
- 18. CARE SHALL BE EXERCISED WHEN WORKING THE AREA AROUND EXISTING TREES AND SHRUBS. ANY TREES OR SHRUBS NOT MARKED FOR REMOVAL THAT ARE DAMAGED BY THE CONTRACTOR WILL HAVE TO BE REPLACED BY THE CONTRACTOR, AT HIS EXPENSE AND TO THE SATISFACTION OF THE OWNER.
- 19. THE CONTRACTOR SHALL PROVIDE PROPER TRENCHING SUPPORT AT ALL TIMES. ANY DAMAGE TO ADJACENT STRUCTURES, PAVEMENT, SIDEWALKS, OR UTILITIES SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. ALL SAID WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
- 20. EXISTING SANITARY FLOWS SHALL BE MAINTAINED AND PROPERLY BYPASSED ACCORDING TO PROJECT SPECIFICATIONS.

DISPOSAL OF MATERIALS

- 21. THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL CONSTRUCTION DEBRIS INCLUDING BUT NOT LIMITED **SANITARY SEWER** TO EXCESS SOIL, ROCK, OR ANY OTHER TYPE MATERIALS. THE CONTRACTOR SHALL NOT FILL ANY WETLANDS, LOW LANDS, FLOOD PLAINS, OR DRAINAGE WAYS WITH SAID DEBRIS WITHOUT OBTAINING PROPER APPROVALS, PERMITS, LICENSES, 55. ITEM 675007-8" PLASTIC SEWER PIPE (SDR35) ETC. FROM LOCAL, STATE, OR FEDERAL AGENCIES.
- 22. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF MATERIALS TAKEN FROM EXCAVATIONS.
- 23. THE OPEN BURNING OF SITE CLEARING DEBRIS, TRASH, ETC. IS PROHIBITED IN THE CITY.

RESTORATION

- 24. ALL MAIL BOXES AND TRAFFIC CONTROL SIGNS ENCOUNTERED DURING CONSTRUCTION SHALL BE REPLACED IMMEDIATELY AFTER THE SEWER HAS BEEN INSTALLED AND BACKFILLED. PROVIDE TEMPORARY MAIL BOXES FOR DISRUPTIONS GREATER THAN 24 HOURS.
- 25. RESTORATION IN MOST CASES SHALL BE PERFORMED ACCORDING TO THE CITY OF WHEELING TRENCH DETAILS AS SHOWN⁵⁷. ITEM SPECIAL DEBRIS RACK ON THE DETAIL SHEET. ANY EXCEPTIONS TO THIS RESTORATION METHOD ARE PRESENTED IN THE PLAN SHEETS ON A CASE BY CASE BASIS.

ADDITIONAL CLARIFYING NOTES

26. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH PROPERTY OWNERS.

TREE CLEARING

27. NO CLEARING SHALL TAKE PLACE OUTSIDE OF THE DESIGNATED WORK LIMITS.

CONSTRUCTION LAYOUT STAKES

28. ITEM SHALL CONFORM TO SECTION 639 OF THE WVDOT SPECIFICATION MANUAL. ITEM SHALL BE PAID ON A LUMP SUM (LS) BASIS.

PAVEMENT/SIDEWALK SECTION

35. ITEM 408002 TACK COAT SHALL CONFORM TO SECTION 408 OF THE WVDOT SPECIFICATION MANUAL. THE UNIT OF MEASURE SHALL BE GALLONS

- 36. ITEM 501001- 8" REINFORCED PORTLAND C TOOLS, MATERIAL AND EQUIPMENT NECES WVDOT SPECIFICATIONS MANUAL . THIS EXCAVATION. THE PAY LIMIT WIDTH OF RE VARIOUS SIZE PIPES. MAXIMUM WIDTH IS INSTALLED AS SHOWN ON THE STANDARD
- 37. ITEM 307001- 6" CLASS 1 AGGREGATE BAS SPECIFICATION MANUAL. ALL WORK, LABC NECESSARY TO COMPLETE WORK SHALL PLACED (CY).
- 38. ITEM 401002- 2" WEARING COURSE TYPE 4 EQUIPMENT NECESSARY TO FURNISH AND WEARING COURSE TYPE 4 AS SHOWN ON PAY LIMIT WIDTH OF REPLACEMENT IS EST MAXIMUM WIDTH IS PAVED AREA DISTURB WVDOH SPECIFICATIONS (TABLE 401.4.2A) TONS (TON) INSTALLED AS SHOWN ON THE

ALL WORK, LABOR, MATERIAL, DISPOSAL, SHALL BE INCLUDED. THIS ITEM SHALL BE

MOBILIZATION

40. ITEM SHALL CONFORM TO SECTION 204 OF OF CONSTRUCTION PREPARATORY OPERA PROJECT SITE, PERMITS, BONDING AND IN REQUEST AND BALANCE WILL BE PAID ON

MAINTENANCE OF TRAFFIC

- 41. ITEM SHALL CONFORM TO SECTION 636 OF SET. ITEM SHALL BE LUMP SUM(LS) BASIS. MINIMUM OF 24-HOUR IN ADVANCE. THE C SEVEN DAYS PRIOR TO MAKING CHANGES UPDATES SHALL BE SENT TO THE ENGINE WHEELING POLICE. PARKING CHANGES M ADVANCE.
- AHEAD SIGNS, AND PEDESTRIAN BARRICA
- TRUCK AND SHIFT TRAFFIC WILL NOT BE II AGREED UPON BETWEEN THE BUSINESS
- 44. TEMPORARY LIGHTING MAY BE USED IN LI TRAFFIC CONTROL FOR STREETS AND HIG OF THE MANUAL. IN ALL CASES THE MAINT

SANITARY SEWER

- 604 AND SUBSECTION 714.22 OF THE WVDC AND SHALL INCLUDE THE PIPE MATERIAL, TRENCH PLACEMENT.
- 46. COST OF ALL LABOR, MATERIALS, AND EQU GROUND OR BOTTOM OF THE AGGREGATE INCLUDED IN THE UNIT PRICE OF THE PIPE

STORM SEWER

- 47. ITEM 219001 CLSM TYPE B CONTRACTOR TO FILL EXISTING STORM WVDOT SPECIFICATION MANUAL. ITEM S
- MATERIAL, INSTALLATION, AND SUITABLE
- 49. ITEM 605001 ALL MANHOLES SHALL BE WY SECTION 605 OF THE WVDOT SPECIFICAT ALL EQUIPMENT. MATERIAL INCLUDING (
- 50. ITEM 605004 ALL INLETS SHALL BE WVDOT AND IS TO INCLUDE ALL EQUIPMENT, MATE LABOR

- 53. FOR PIPE SIZES 12"-30" THE PROPOSED ST EXTERIOR PER ASTM F-2648; GASKETS PE F-2306; AND INSTALLATION AND BEDDING I
- 54. ALL MANHOLES SHALL BE CONSTRUCTED ALTERNATIVES).
- MH FRAME: 1450Z

MH CASTING: DENOTED ON PROFILE

INLET: GRATE DENOTED ON PROFILE

SUITABLE MATERIAL TO BE REUSED FOR TRENCH PLACEMENT

SPECIAL ITEMS

- 56. ITEM SPECIAL HEADWALL 1 (18" PIPE) STANDARD DETAIL DR2 (SHEETS 1-4).
- 58. ITEM SPECIAL INSERTA-TEE PAY ITEM. ITEM SHALL BE PAID FOR ON AN EACH (EA) BASIS
- 59. ITEM SPECIAL UNSUITABLE BACKFILL CONTINGENCY BEEN INCLUDED IN THE TABLE OF ESTIMATED QUANTITIES, AND SHALL BE PAID ON A CUBIC YARD (CY) BASIS.
- 60. ITEM SPECIAL DRIVEWAY REPLACEMENT
- 61. ITEM SPECIAL BULKHEAD FOR SEWER

CEMENT CONCRETE PAVEMENT. THE CONTRACTOR SHALL FURNISH ALL LABOR, SSARY TO FURNISH AND INSTALL THIS ITEM TO CONFORM TO SECTION 501 OF THE	<u>.</u>	RESPOI RESULT	NSIBLE FOR REP OF THE BULKH	AIRING ANY DAMAGE AT HIS OWN EXPENSE THAT OCCURS TO THE ADJACENT MANHOL EAD CONSTRUCTION. ITEM SHALL BE PAID ON AN EACH (EA) BASIS.	E
TEM SHALL INCLUDE SAW CUTTING PAVEMENT FULL DEPTH PRIOR TO EPLACEMENT IS ESTABLISHED IN THE STANDARD DETAIL DRAWING FOR THE PAVED AREA DISTURBED. THE UNIT OF MEASURE SHALL BE SQUARE YARDS (SY) DETAIL DRAWINGS, MEASURED IN PLACE.	63.	ITEM SPE CONTR AND CA EXCAVA	CIAL - ABANDON ACTOR TO FILL E STING. CASTING ATION REQUIREE	I STORM STRUCTURE EXISTING STORM MANHOLE WITH #57 STONE, CAP WITH 6" OF CONCRETE, AND REMOVE GAND LID SHALL BE RETURNED TO CITY. ALL WORK, LABOR, MATERIAL, EQUIPMENT, AN D TO ABANDON THE MANHOLE SHALL BE INCLUDED WITH THIS PAY ITEM. ITEM SHALL BE	E E
DE COURSE, THIS ITEM SHALL CONFORM TO SECTION 307 OF THE WVDOT DR, MATERIAL, DISPOSAL, EQUIPMENT, AGGREGATE, AND EXCAVATION BE INCLUDED IN THIS ITEM. THIS ITEM SHALL BE PAID FOR BY THE CUBIC YARD	62.	AN EAC	:H (EA) BASIS. ECIAL- SEWER PI RK, LABOR, MATE	PE REMOVAL RIAL, EQUIPMENT, AND EXCAVATION REQUIRED TO SEAL THE EXISTING CONNECTION S	s
. THE CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, MATERIAL AND		INCLUDE	D WITH THIS PAY	Y ITEM. STORM PIPE REMOVAL SHALL BE PAID ON A LINEAR FOOT (LF) BASIS.	
D INSTALL WEARING COURSE. THIS ITEM SHALL INCLUDE PLACEMENT OF I THE STANDARD DETAIL DRAWINGS AND PER THE CONTRACT DOCUMENTS. THE TABLISHED IN THE STANDARD DETAIL DRAWING FOR THE VARIOUS SIZE PIPES.	63.	ITEM SPE WORK IS EXCAVAT	ECIAL - STORM S TO BE PAID FOR FION SHALL BE IN	TRUCTURE REMOVED ON AN EACH (EA) BASIS. ALL WORK, LABOR, MATERIAL, BACKFILL, EQUIPMENT, DISPO NCLUDED WITH THIS PAY ITEM. CASTING AND GRATE/COVER SHALL BE RETURNED TO (ຣ C
) AND THE NOTES OUTLINED IN THESE PLANS. THE UNIT OF MEASURE SHALL BE E STANDARD DETAIL DRAWINGS, MEASURED IN PLACE.	64.	ITEM SPE THE CON WVDEP E	ECIAL - EROSION ITRACTOR SHAL EROSION AND SE	I CONTROL L PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH E&S CONTROL SHEE EDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL WITH LAST REVISION DATE	Т (
S ITEM SHALL CONFORM TO SECTION 609 OF THE WVDOT SPECIFICATION MANUAL AGGREGATE, EQUIPMENT, AND EXCAVATION NECESSARY TO COMPLETE ITEM		29, 2016. RESPON	DAMAGE TO PR SIBILITY OF THE	OPERTY AS A RESULT OF INADEQUATE EROSION CONTROL MEASURES SHALL BE SOLE CONTRACTOR. ITEM SHALL BE PAID ON A LUMP SUM (LS) BASIS.	ΞL
PAID FOR BY CUBIC YARD (CY).	65.	THE CON SURFACE MULCH	ECIAL- GRADING ITRACTOR SHAL E COVERING. TH FO REPLACE THE	5, SEEDING, AND MULCHING (WHEELING) L FURNISH ALL LABOR, TOOLS, MATERIAL AND EQUIPMENT NECESSARY TO FURNISH AN HS ITEM SHALL INCLUDE ALL NECESSARY GRADING, TOPSOIL, FERTILIZER, WATER, SEE E DISTURBED OR DAMAGED AREA, COMPLETE AND IN ACCORDANCE WITH THE DRAWIN	1 21 12
F THE WVDOT SPECIFICATION MANUAL.THIS ITEM SHALL INCLUDE PERFORMANCE ATIONS, INCLUDING THE MOVEMENT OF PERSONNEL AND EQUIPMENT TO THE NSURANCE. MAXIMUM PAYMENT FOR THIS ITEM WILL BE 50% ON FIRST PAY I FINAL PAY REQUEST. ITEM SHALL BE PAID IN LUMP SUM (LS) BASIS.		SPECIFIC SPECIFIC COMPUT TIMES TH BE MORE AND MUL	CATIONS. THE IT CATIONS AND TH ED BY MULTIPLY HE WIDTH OF THI THAN THE WOF CHED AT THE C	EM SHALL INCLUDE ALL WORK NECESSARY TO COMPLETE THE ITEM IN ACCORDANCE NET NOTES OUTLINED IN THESE PLANS. THE UNIT OF MEASURE SHALL BE SQUARE YARD 'ING THE LENGTH OF THE DISTURBED AREA AS MEASURED ALONG THE CENTERLINE OF E DISTURBED AREA, BUT IN NO CASE SHALL THE LIMITS OF PAYMENT ON EITHER SIDE OR LIMITS SHOWN ON THE DRAWINGS. DAMAGED AREAS OUTSIDE OF THE LIMITS WILL I ONTRACTOR'S EXPENSE.	A S = D B
F WVDOT SPECIFICATION MANUAL AND DETAILS ON THE CONSTRUCTION PLAN ANY IMPACTS TO ACCESS MUST BE COORDINATED WITH PROPERTY OWNERS A CONTRACTORS SHALL PROVIDE UPDATES TO THE CITY WITH TRAFFIC IMPACTS	66.	ITEM SPE CONTR BE AT T	ECIAL - SUPPOR ACTOR TO SUPP HE SATISFACTIO	T UTILITY POLE ORT UTILITY POLE DURING CONSTRUCTION OF STORM SEWER. SUPPORT OF UTILITY P ON OF THE ENGINEER AND UTILITY COMPANY. ITEM SHALL BE PAID FOR ON AN EACH (E.	י(
ER AND OWNER. TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF UST BE POSTED ALONG THE STREET IMPACTED A MINIMUM OF 24-HOURS IN	67.	ITEM SPE CONTR AT THE	ECIAL - SUPPOR ACTOR SHALL SI SATISFACTION	T CAR PORT UPPORT CAR PORT DURING CONSTRUCTION OF STORM SEWER. SUPPORT OF CAR POR OF THE ENGINEER. ANY SUBSEQUENT DAMAGE TO HOUSE OR CAR PORT SHALL BE AT	۲. ۲
LANE AT A TIME. PROVIDE A SIGNED PEDESTRIAN DETOUR, ROADWAY CLOSED ADES.	68.		ACTORS EXPENS	SE. ITEM TO BE PAID FOR ON A LUMP SUM (LS) BASIS. CATION CONTINGENCY	J
NDIVIDUALLY WITH BUSINESS OWNERS ALONG THE ALIGNMENT TO ENSURE THAT MPEDED BY CONSTRUCTION. A SCHEDULE SHALL BE DEVELOPED THAT IS OWNER AND CONTRACTOR.		CONTR SHALL I SERVIC	ACTOR SHALL R FURNISH ALL WO E. ITEM SHALL N	ELOCATE SERVICE ACCORDINGLY AND IN ACCORDANCE WITH UTILITY COMPANY. CONT DRK, LABOR, AND MATERIAL NECESSARY TO FACILITATE THE RELOCATION OF THE RESI IOT EXCEED \$20,000 OVER DURATION OF PROJECT.	י רו P
IEU OF FLAGMEN, IN ACCORDANCE WITH THE WVDOT MANUAL ON TEMPORARY GHWAYS, 2006 EDITION, SPECIFICALLY DESCRIBED IN SECTION F.75 THROUGH F.80 TENANCE OF TRAFFIC PLAN SHALL BE APPLIED AND ADHERED TO.	69.	ITEM SPE THE CON PROJECT ELECTRO	CIAL- DOCUMEN ITRACTOR SHAL SPECIFICATION DNIC FORM ON U	ITATION OF SITE L VIDEO RECORD THE PROJECT SITE PRIOR TO START OF ACTIVITIES IN ACCORDANCE IS. THE CONTRACTOR SHALL PROVIDE ONE COPY OF VIDEO TO ENGINEER AND OWNER SB MEMORY DEVICE. ITEM SHALL BE PAID ON A LUMP SUM (LS) BASIS.	V ₹
SDR 35 (ASTM D3034). POLYVINYL CHLORIDE PIPE SHALL CONFORM TO SECTION OT SPECIFICATION MANUAL. ITEM SHALL BE PAID ON A LINEAR FOOT (LF) BASIS BEDDING MATERIAL INSTALLATION, AND SUITABLE MATERIAL TO BE REUSED FOR					
UIPMENT TO COMPLETE TRENCH WORK TO THE SURFACE OF THE EXISTING	ſ	RFF#	ITEM	DESCRIPTION	– I
	-	1	639001	CONSTRUCTION LAYOUT AND STAKES	– I
	-	2	204001	MOBILIZATION	<u>-</u> I
SEWER PIPE WITH CLSM TYPE, B. CLSM SHALL CONFORM TO SECTION 219 OF THE	-	<u>-</u> 3	636001		- I
HALL BE PAID ON A CUBIC YARD (CY) BASIS.		4	408002	TACK COAT	-
CONFORM TO SECTION 604 AND SUBSECTION 714.19 OF THE WVDOT	-	5	501001	8" REINFORECED PORTLAND CEMENT CONCRETE PAVEMENT	ę
MATERIAL TO BE REUSED FOR TRENCH PLACEMENT.	-	6	401002	2" WEARING COURSE TYPE 4	- 7
VDOT TYPE A MANHOLES ACCORDING TO DETAILS. THIS ITEM SHALL CONFORM TO	,	7	307001	6" CLASS 1 AGGREGATE COURSE BASE	- 7
TION MANUAL. ITEM SHALL BE PAID ON AN EACH (EA) BASIS AND IS TO INCLUDE		8	219001	CLSM TYPE B	(
		9	604052	24" PLASTIC SEWER PIPE (TYPE A-1 TRENCH)	_ L
E WVDOT SPECIFICATION MANUAL. ITEM SHALL BE PAID ON AN EACH (EA) BASIS	-	10	604052	24" PLASTIC SEWER PIPE (TYPE D TRENCH)	L
ERIAL INCLUDING GRATE AND CORRESPONDING FRAME, INSTALLATION, AND	-	11	604052	18" PLASTIC SEWER PIPE (TYPE A-1 TRENCH)	L
UIPMENT TO COMPLETE TRENCH WORK TO THE SURFACE OF THE EXISTING	-	12	604052	18" PLASTIC SEWER PIPE (TYPE D TRENCH)	L
AILS IN THE PLANS SHALL BE INCLUDED IN THE UNIT PRICE OF THE PIPE.	-	13	604052	12" PLASTIC SEWER PIPE (TYPE A-1 TRENCH INSTALLATION ONLY)	L
D FLUSH WITH GROUND	F	14	604052	12" PLASTIC SEWER PIPE (TYPE D TRENCH INSTALLATION ONLY)	_ L
TORM SEWER PIPE SHALL BE HDPE N-12 SMOOTH INTERIOR, CORRUGATED	F	15	675007	8" PLASTIC SEWER PIPE (SDR35)	L
R ASTM F-477; BELL AND SPIGOT JOINTS TO ASTM D-3212; FITTINGS TO ASTM PER ASTM D-2321	F	16	604052	MANHOLE TYPE A (48" DIAMETER BASE)	E
WITHOUT STEPS. MANHOLE FRAMES AND LIDS SHALL BF FAST JORDAN (NO	F	17	605001	MANHOLE TYPE A (60" DIAMETER BASE)	E
	F	18	605004	TYPE A INLET	E

605004

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TYPE B INLET

DEBRIS RACK

WINGWALL (18" PIPE)

8" x 24" INSERTA-TEE

12" x 24" INSERTA-TEE

18" x 24" INSERTA-TEE

BULKHEAD FOR SEWER

SEWER FLOW CONTROL

REMOVE SEWER PIPE

EROSION CONTROL

SUPPORT UTLITY POLE

SUPPORT CAR PORT

DOCUMENTATION OF SITE

UNSUITABLE BACKFILL CONTINGENCY

MARKER TAPE AND LOCATOR WIRE

ABANDON STORM STRUCTURE

STORM STRUCTURE REMOVED

GRADING, SEEDING, AND MULCHING

REMOVE AND REPLACE FENCE IN KIND

UTILITY RELOCATION CONTINGIENCEY

TREE CLEARING AND GRUBBING

DRIVEWAY REPLACEMENT IN KIND

PLASTIC SEWER PIPE SHALL CONFORM TO SECTION 675 AND SUBSECTION 714.22 OF THE WVDOT SPECIFICATION MANUAL. ITEM SHALL BE PAID ON A LINEAR FOOT (LF) BASIS AND SHALL INCLUDE THE FITTINGS, PIPE MATERIAL, INSTALLATION, AND 24

ITEM SHALL CONFORM TO WVDOT SECTION 601 CLASS B CONCRETE. ALL WORK, LABOR, EXCAVATION, AND MATERIAL SHALL BE INCLUDED IN THIS ITEM. WORK SHALL BE PAID FOR ON AN EACH (EA) BASIS. ITEM SHALL CONFORM TO WVDOH

ITEM SHALL CONFORM TO DEBRIS RACK DETAIL AND MAY BE PREFABRICATED OR FABRICATED ON SITE. ALL WORK LABOR, EXCAVATION, AND MATERIAL SHALL BE INCLUDED IN THIS PAY ITEM. WORK SHALL BE PAID FOR ON AND (EA) BASIS.

ITEM SHALL CONFORM TO WVDOT SUBSECTION 714.19. ALL WORK, LABOR, AND MATERIAL SHALL BE INCLUDED IN THIS

THE CONTRACTOR SHALL PROVIDE SUITABLE BACKFILL MATERIAL IN THE CASE THAT THE EXISTING MATERIAL IS UNSUITABLE FOR CONSTRUCTION. SUITABILITY FOR CONSTRUCTION SHALL BE AS DESCRIBED IN SECTIONS 207 AND 716 OF THE WVDOT SPECIFICATIONS MANUAL. HOWEVER, THE ENGINEER RESERVES THE RIGHT TO DETERMINE THE SUITABILITY OF BACKFILL MATERIAL. AN ESTIMATE FOR THE REQUIRED AMOUNT OF SUITABLE BACKFILL MATERIAL HAS

THE CONTRACTOR SHALL REPLACE EXISTING DRIVEWAY REMOVED DURING CONSTRUCTION OF THE STORM SEWER IN ACCORDANCE WITH THE STANDARD DETAIL AND SATISFACTION OF ENGINEER. CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, MATERIALS, AND EQUIPMENT NECESSARY. THE ITEM SHALL BE PAID FOR ON A SQUARE YARD (SY) BASIS.

THE CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT A SEWER ADJUSTMENT AS SHOWN ON THE CONSTRUCTION DRAWINGS AS DETAILS. THE CONTRACTOR SHALL BE

E AS A LEGE EX. BUILDING COVER PAID ON EX. CONTOUR SHALL BE CENTER LINE EX. R/W SAL AND EX. PROPERTY I CITY. EX. FENCE AND THE OF AUGUST EX. WAT LY THE EX. ELECTRIC EX. SAN ND INSTALL D AND GS AND EX. STM VITH WVDOH S (SY). EX. GAS THE PIPE, OF THE PIPE EX. OH UTIL BE SEEDED **EX. FIBER OPTIC** EX. DRIVEWAY OLE SHALL A) BASIS. EX. EASEMENT ₹T SHALL BE EX. VEGETATION PR. MILLING PR. TRENCH RACTOR PECTIVE PR. SANITARY LI PR. SAN. LATERA WITH THE EXISTING SAN. LA EXISTING WATER EXISTING FIRE H EXISTING CURB I EXISTING CATCH EXISTING GAS M QUANTITY | EXISTING UTILIT JNIT EXISTING TRAFF EXISTING LIGHT EXISTING GUY W GAL 173 EXISTING CABLE 1156 EXISTING SIGN TON 128 TON 1816 EXISTING MAILBO 33 SURVEY BENCHM 1816 PROPOSED SANIT 23 TC = TOP OF CAS 59 225 ToC = TOP OF CO 27 147 60 2 EA 17 EA EA EA EA EA CY 250 EA 14 LS 2357 LF FA 705 IF 18 FA SY 2275 LS IS 115 LF SY 66 EA IS \$\$ 20000 LS

ND			
	805		
	EX. RW	\vdash	
INE			
	_ x x x		
	WAT		
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WATER POLLUTION CONTROL DIVISION Master Pollution WASTEWATER COLLECTION AND TREATMENT Image: Collection and treatment Gaewood sewer Project Image: Collection and treatment General notes, Legend, and QUANTITIES Image: Collection and C					
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CODED NOTES

- CONNECT EXISTING STORM SEWER $\langle 1 \rangle$ TO PROPOSED STRUCTURE $\langle 2 \rangle$ BULKHEAD EX STORM SEWER REMOVE EX STORM LINE BETWEEN $\langle 3 \rangle$ EXISTING HEADWALL AND EX CB9A $\langle 4 \rangle$ TIE IN HEADWALL TO EXISTING CONCRETE CHANNEL INSTALL METAL DEBRIS RACKS 8 FT FROM HEADWALL (SMALL $\langle 5 \rangle$ OPENINGS) AND 16 FT FROM HEADWALL (LARGE OPENINGS). AND CLEAN CHANNEL. SEE DETAIL.
- GRADE 18" TALL X 2' WIDE BERM $\langle 6 \rangle$ TIE INTO EXISTING GRADE AND CONCRETE ELEVATIONS

NOTES

EXISTING SANITARY AND STORM SEWER LATERAL EXACT LOCATIONS AND DEPTHS ARE UNKNOWN.

CONNECT ANY EXISTING STORM LATERALS TO PROPOSED SYSTEM. ITEM TO BE INCLUDED IN COST OF VARIOUS STORM PIPES.











	POINT TABLE						
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION			
10	561134.8750	1642077.8750	696.30	Iron Pin (Set)			
11	561361.6770	1641756.0750	705.42	Iron Pin (Set)			
12	561556.6078	1641576.7837	715.43	Iron Pin (Set)			
13	561370.2980	1641388.4870	730.98	Iron Pin (Set)			
16	561262.3400	1641338.9390	749.03	Iron Pin (Set)			
17	561014.7680	1641458.6390	761.53	Iron Pin (Set)			
18	561181.3870	1642146.0410	694.98	Hub (Set) TRAV			
19	561288.2074	1641879.6937	701.86	Hub (Set) TRAV			
20	561228.3350	1641819.8619	706.06	Hub (Set) TRAV			
21	561195.3943	1641785.2908	710.33	Hub (Set) TRAV			
22	561490.1899	1641456.3889	718.43	Hub (Set) TRAV			
23	561551.9115	1641400.2391	720.83	Hub (Set) TRAV			
24	561616.0053	1641245.3021	731.64	Hub (Set) TRAV			
25	561412.4643	1641389.8613	728.63	Hub (Set) TRAV			
26	561122.7719	1641359.4422	760.02	Hub (Set) TRAV			
27	561058.6035	1641516.3087	739.10	Iron Pin (Set) TRAV			
50	561149.1000	1642104.3060	696.90	Benchmark (Fnd) CITY BM EG-38 TOP			
51	561570.1430	1642059.2200	704.38	Benchmark (Fnd) CITY BM EG-41 TOP			
52	561196.3206	1642100.9948	695.19	Benchmark (Set) CHISELED "X" TOP OF			
53	560804.6412	1641527.3460	783.02	Benchmark (Set) CHISELED "X" IN CONC			
100	561426.7724	1641678.4288	708.90	Iron Pin (Fnd) 5/8IN			
101	561022.9948	1641936.5283	705.86	Iron Pin (Fnd) 5/8IN CAPPED "AUSTEN SURVEYING			
102	561073.1977	1641980.6072	701.62	Iron Pin (Fnd) 5/8IN			
103	561189.2747	1641949.4416	699.95	Iron Pin (Fnd) 5/8IN			
104	561470.7999	1641477.1876	718.83	Iron Pin (Fnd) 1IN			
105	561228.8734	1641310.5545	757.22	Iron Pin (Fnd) 3/4IN BENT			



FORMWATER STRUCTURE TABLE						
CTURE ME:	NORTHING (PER PLAN)	EASTING (PER PLAN)	TOP OF CASTING			
V 1	561096.47	1641340.60	764.34			
A TEE (6)	561485.09	1641470.20	713.77			
TEE (12)	561088.52	1642022.33	695.08			
Г 2	561281.91	1641867.58	701.23			
Г 3	561512.50	1641604.28	711.98			
Г 4	561564.40	1641542.09	714.93			
Г 5	561522.38	1641503.03	715.67			
Г 6	561546.74	1641394.38	717.55			
Γ7	561415.81	1641409.23	727.00			
Г 8	561305.64	1641305.57	745.67			
8A	561303.16	1641322.66	744.02			
Г 9	561117.88	1641402.87	756.76			
9A	561108.70	1641384.26	756.67			
10	561171.52	1642138.39	694.03			
⁻ 11	561141.67	1642070.28	696.01			
13	560976.21	1641920.98	706.77			
13A	560937.86	1641914.29	708.45			
14	560970.35	1641868.56	708.49			
15	561106.54	1641717.78	718.54			
16	561026.34	1641646.10	730.21			
T1	561137.22	1642035.82	697.14			
12	561077.06	1642037.82	698.98			
17	560932.80	1641732.91	736.19			

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WATER POLLUTION CONTROL DIVISION WASTEWATER COLLECTION AND TREATMENT GAEWOOD SEWER PROJECT STORM SEWER PLAN & PROFILE					
	22	PROJE	CT NO. 91-	1B	
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UNDIVIDED, URBAN, LOW-VOLUME, LOW-SPEE

EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE PAVEMENT REQUIRING THE CLOSURE OF ONE TRAFFIC LANE.

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			22	PROJE	ст NO. 9 1 -	1B	
D			WALER FOLLOTION CONTROL DIVISION WASTEWATER COLLECTION AND TREATMENT	GAEWOOD SEWER PROJECT		MAINTENANCE OF TRAFFIC	
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	DURING DAYTIME OPERATION.	REVISION					
	 4. AT NO TIME SHALL ONE THE CLOSED ONE EPOPEDESTRIAN BARRICADES. 	DATE					
	 DURING DAYTIME OPERATION, CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC. ROADWAYS SHALL ONLY BE CLOSED ONE LA 						
	NOTES:		(your trusted advisor	consultants and		-
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18" MIN. OVERLAP FILTER SOCK (TYP.) CLOSED END (TYP.) STAKE (TYP.) FILTER SOCK CONNECTION SIDE OF CLEARING UNDISTURBED AND GRADING SIDE 2" X 2" WOOD STAKES (10' ON CENTER) -- 3" TO 4" FILTER SOCK -FLOW SEDIMENT STORAGE AREA SECTION VIEW NOTES: FILTER SOCKS SHALL BE CONTINUOUS, TUBULAR, HDPE KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST. COMPOST SHALL BE WEED, PATHOGEN AND INSECT FREE, FREE OF REFUSE, CONTAMINANTS OR MATERIALS TOXIC TO PLANT GROWTH, BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER, AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2". FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE ACROSS SLOPES PARALLEL TO THE BASE OF THE SLOPE. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND MID-SLOPE. THE FLAT DIMENSION OF THE SOCK SHALL BE AT LEAST 1.5 TIMES THE NOMINAL DIAMETER. FILTER SOCKS SHALL BE PLACED AT LEAST 5' FROM THE TOE OF SLOPE FOR SEDIMENT DEPOSIT. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS. BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED 1/3 THE FILTER SOCK HEIGHT. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. WHEN A FILTER SOCK IS NO LONGER REQUIRED, IT SHALL BE DISPERSED ON-SITE. 10. THE MAXIMUM DRAINAGE AREA PER 100 FEET OF FILTER SOCK IS 1/2 ACRE AND IS DEPENDENT ON THE SLOPE PER THE CHARTS BELOW: MAX. DRAINAGE AREA (AC.) RANGE OF SLOPE PER PER 100-FT OF FILTER SOCK (*) INDIVIDUAL DRAINAGE AREA 0.50 AC. <2% (50H:1V) 0.25 AC. <u>></u>2% (50H:1V) BUT <20% (5H:1V)

2

5.

6

9.

(*) FILTER SOCK CANNOT BE USED FOR SLOPES >50% (2H:1V).

0.125 AC.

MAX. SLOPE LENGTH ABOVE FILTER SOCK					
SLOPE (%)	RATIO (H:V)	12"	18"		
0% TO <2%	0 TO <50:1	250'	300'		
<u>></u> 2% TO <10%	<u>></u> 50:1 TO <10:1	125'	200'		
<u>></u> 10% TO <20%	<u>></u> 10:1 TO <5:1	100'	150'		
<u>></u> 20% TO <50%	<u>></u> 5:1 TO <u>></u> 2:1	50'	75'		

FILTER SOCK DETAIL SCALE: NONE

SCALE: NONE

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<u>>20% (5H:1V) BUT <50% (2H:1V)</u>

24" 350' 25' 200' 100'

THE SEED BED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION.

SOIL AMENDMENTS MAY BE REQUIRED TO ESTABLISH VEGETATION. PERFORM SOIL TESTS TO PREDICT THE NEED FOR LIME OR FERTILIZER. IN LIEU OF A SOIL TEST. APPLY LIME AT 2 TONS/AC. OR FERTILIZER AT 500 LB/AC. OF 10-10-10 OR 12-12-12 ANALYSIS

- APPLY SEED UNIFORMLY. COVER BROADCASTED SEED BY RAKING OR DRAGGING, AND LIGHTLY TAMPING INTO PLACE.
- MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING.

5.

INSPECT FOR SOIL EROSION OR VEGETATION LOSS AND REPAIR BARE OR SPARSE AREAS, FILL GULLIES, RE-FERTILIZE, RE-SEED AND RE-MULCH AS NEEDED.

TE	MPORARY SEEDING SPEC	IES SELECTION	
DATES	SPECIES	LB/1,000 SF	LB/A
MARCH 1 - AUGUST 15	OATS TALL FESCUE PERENNIAL RYEGRASS	3 1 1	12 4(4(
	PERENNIAL RYEGRASS TALL FESCUE	2 1	40 40
AUGUST 16 - OCTOBER 31	RYE TALL FESCUE PERENNIAL RYEGRASS	3 1 1	11: 4(4(
	WHEAT TALL FESCUE PERENNIAL RYEGRASS	3 1 1	12 4(4(
	PERENNIAL RYEGRASS TALL FESCUE	2 1	40 40
NOVEMBER 1 - FEBRUARY 28	ONLY MULCH OR DORMA	NT SEEDING.	

TEMPORARY SEEDING NOTES

- AC.

- SUBSOILING SHALL OCCUR WHEN SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING IS NOT PERMITTED ON SLIP-PRONE AREAS.
- 2. THE SEED BED SHALL BE PREPARED BY APPLYING AGRICULTURAL GROUND LIMESTONE OR FERTILIZER AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, APPLY LIME AT 2 TONS/AC. OR FERTILIZER AT 500 LB/AC. OF 10-10-10 OR 12-12-12 ANALYSIS. LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL TO A DEPTH OF 3".
- APPLY SEED UNIFORMLY ON FIRM, MOIST SEED BED BETWEEN MARCH 1 AND MAY 31 OR AUGUST 1 AND SEPTEMBER 30. TILLAGE FOR SEEDBED PREPARATION SHALL OCCUR WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. SEEDING SHOULD NOT BE APPLIED BETWEEN OCTOBER 1 AND NOVEMBER 20 BECAUSE SEEDS MAY GERMINATE, BUT WILL NOT SURVIVE THE WINTER. IF SEEDING MUST OCCUR, INCREASE THE SEEDING RATE BY 50% AND ANCHOR. APPLY ADDITIONAL MULCH AND IRRIGATION AS REQUIRED TO ENSURE GERMINATION.
- MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. 4.
- SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION 5. DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS.
- SEEDING SHALL NOT BE CONSIDERED ESTABLISHED FOR AT LEAST 1 FULL YEAR FROM THE TIME OF SEEDING. DURING THIS PERIOD INSPECT FOR SOIL EROSION OR VEGETATION LOSS AND REPAIR BARE OR SPARSE AREAS, FILL GULLIES, RE-FERTILIZE, RE-SEED AND **RE-MULCH AS NEEDED.**
- ADEQUATE PERMANENT VEGETATION SHALL BE GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE BASED ON VISUAL INSPECTION.

PERMANENT SEEDING FERTILIZATION AND MOWING CHART						
MIXTURE	FORMULA	LB/ AC.	TIME	мом		
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	10-10-10	500	FALL, YEARLY, OR AS NEEDED	<u>></u> 3"		
TALL FESCUE	10-10-10	500				
TURF-TYPE FESCUE	10-10-10	500		<u>></u> 4"		
CROWN VETCH FESCUE	0-20-20	400	SPRING, AND	DO		
FLAT PEA FESCUE	0-20-20	400	ESTABLISHED	MOW		

SEED MIX	SEED RATE LB/AC.	NOTES:					
GENERAL USE							
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	20 - 40 10 - 20 20 - 40	FOR CLOSE MOWING AND WATERWAYS WITH <2.0 FT./SEC. VELOCITY					
TALL FESCUE	40 - 50						
TURF-TYPE FESCUE	90						
STEEP BANKS OR CUT SLOPES							
TALL FESCUE	40 - 50						
CROWN VETCH TALL FESCUE	10 - 20 20 - 30	DO NOT SEED LATER THAN AUGUST					
FLAT PEA TALL FESCUE	20 - 25 20 - 30	DO NOT SEED LATER THAN AUGUST					
ROAD DITCHES AND SWALES							
TALL FESCUE	40 - 50						
TURF-TYPE FESCUE KENTUCKY BLUEGRASS	90 5						
LAWN							
KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	100 - 120 100 - 120						
KENTUCKY BLUEGRASS CREEPING RED FESCUE	100 - 120 100 - 120	FOR SHADED AREAS					

PERMANENT SEEDING NOTES

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WATER POLLUTION CONTROL DIVISION WASTEWATER COLLECTION AND TREATMENT GAEWOOD SEWER PROJECT				SWPPP DETAILS AND NOTES		
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