

TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH

BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.

SANITARY SEWERS AND CONNECTIONS 150mmØ AND SMALLER TO BE PVC SDR-28.

SEWERS AND CONNECTIONS 200mmØ AND LARGER TO BE PVC

SDR-35. BEDDING TO BE TYPE "B" EXCEPT AT RISERS, UNLESS SEWERS AND WATERMAINS LOCATED PARALLEL TO EACH OTHER SHOULD BE CONSTRUCTED IN SEPARATE TRENCHES.

WHEN IT IS IMPOSSIBLE OR NOT PRACTICAL TO MAINTAIN VERTICAL AND/OR HORIZONTAL SEPARATION PER MECP STANDARDS, ALL SEWERS SHOULD BE CONSTRUCTED OF WATERMAIN QUALITY PIPE, PRESSURE TESTED IN PLACE AT A PRESSURE OF 350 kPa (50 psi) WITHOUT LEAKAGE USING THE TESTING METHODOLOGY IN ONTARIO PROVINCIAL STANDARD SPECIFICATION 701 (OPSS 701) OF THE OPS.

HAVE LESS THAN 2.0m OF COVER WITH THERMAL INSULATION AS PER CITY DETAIL \$35, OPTION A. SEWER CONNECTIONS ARE TO BE MADE ABOVE THE SPRINGLINE OF THE SEWERMAIN AS PER CITY OF OTTAWA STANDARD

INSULATE ALL STORM AND SANITARY SEWERS/SERVICES THA

DRAWING S11, S11.1 & S11.2. 8. SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN AND DETAILED TO WITHIN 1.0m OF BUILDING. ALL ENDS OF SERVICES TO BE PROPERLY CAPPED AND LOCATED

10. DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO

CONFIRM PROPER CONNECTION TO SANITARY SEWER MAIN.

WITH 2"x4"X8' LONG MARKER. 9. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS ON SITE, OUTLET CONNECTION TO THE MAIN AND PIPES 150mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.

IS 0.5m AS PER CITY DETAIL W25. FOR CROSSING FOR THE SEWERS IS REQUIRED TO PREVENT **EXCESSIVE DEFLECTION OF JOINTS AND SETTLING**

ROADWAY NOTES

INV±94.25

INV±93.76

15.08m - 200mmØ

STM @ 1.00%

INV± 94.45

TOP± 93.52

INV± 93.78

1. RESTORE ANY TRENCHES AND DISTURBED SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF CITY AUTHORITIES

-PROPOSED 2 x 150mm WATER SERVICE MH−SA. 1

ENSURE MINIMUM 1.0m BETWEEN ALL INV ±93.47(NE)

TOP +95.54

INV 93.59(SE)

CAPILANO DRIVE

PRESSURE PIPE STM @ 1.00% V 93.9

STM AT SPRINGLINE WITH VERTICAL

CONNECT TO PROPOSED 300mm

RISER PER S11.1

SPRING±93.63

TEMPEST LMF75 ICD

600mm SUMP REQUIRED

TO ACCOMODATE ICD.

RISER PER S11.1

__21.84m - 300mmØ PVC SDR-35 STM @ 1.00%

-150mm PVC DR-18 WTM

SPRING±93.68

-CONNECT TO PROPOSED 300mm STM AT SPRINGLINE WITH VERTICAL

INV+93.48

AT OUTLET.

T/G 95.45\\

₹1.57m - 200mmØ

PROPOSED HYDRAN1

-(X2) 100mm BOLLARD

PER CITY F5.

PVC SDR-35 STM @ 1.00%

/=9.86m - 200mmØ

STM @ 2.00%

HYD B/F 95.95

TOP ± 95.53

INV <u>+</u>93.18(N

INV 93.24(SE

INV <u>+</u>93.18(SW

CONNECT TO EX. 152mm WATERMAIN

VALVES AND FITTINGS (TYP.).

STRUCTURE TO BE PRECAST OR

CAST-IN-PLACE "DOGHOUSE'

TYPE PER OPSD701.010

CONCRETE CURB AND SIDEWALK SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD SC1.1 (BARRIER CURB), SC2 (MONOLITHIC SIDEWALK & CURB), AND SC4 (STANDARD SIDEWALK) AS NOTED. PROVISIONS SHALL BE MADE FOR CURB DEPRESSIONS AT SIDEWALKS, DRIVEWAYS AND RAMPS. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA DETAIL R10 AND OPSD 509.010, OPSS 310, AND SHALL BE REINSTATED PER THE DETAIL SHOWN ON THIS DRAWING.

4. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300mm AROUND ALL STRUCTURES WITHIN PAVEMENT AREA.

ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE

7. SUB- EXCAVATE SOFT AREAS AND FILL WITH GRANULAR 'B' COMPACTED IN MAXIMUM 300mm LIFTS.

ROOF DRAINS (B1) TYPE OF CONTROL DEVICE RD-100-A-ADJ (3 OPEN) NUMBER OF ROOF DRA DEPTH OF FLOW (m) DRAWDOWN TIME

ALLISON HAMLIN MANAGER (A), DEVELOPMENT REVIEW WEST PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT **DEPARTMENT, CITY OF OTTAWA**

50mm HL3 OR SP1 GRAN "A" GRAN "B" i GRAN "B' HEAVY DUTY PAVEMENT LIGHT DUTY PAVEMENT CROSS-SECTION CROSS-SECTION TRENCH REINSTATEMENT TO INCLUDE STEP KEY AS PER CITY DETAIL R10 ASPHALT CROSS-SECTIONS TO CONFORM TO GEOTECHNICAL REPORT COMPLETED BY PATERSON GROUP, DATED MARCH 3, 2023

SANITARY STRUCTURE TABLE					
AME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION	
H1A	95.57	SE94.170 SW94.210	NW94.148	COVER CITY STD S24 FRAME CITY STD S25 STRUC. OPSD 701.010	
H2A	95.69	SE94.070	NW94.052	COVER CITY STD S24 FRAME CITY STD S25 STRUC. OPSD 701.010	
НЗА	95.62	SE93.890 EX.SW93.546	EX.NE93.540	COVER CITY STD S24 FRAME CITY STD S25 STRUC. OPSD 701.010	
CTORAL CTRUCTURE TARLE					

		STORM ST	RUCTURE	TABLE
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
CB1	95.45		NE93.861	STRUC: OPSD 705.010 FRAME: CITY S19 COVER: CITY S19 C/W TEMPEST LMF80 ICD
CB3	95.45		SW94.140	STRUC: OPSD 705.010 FRAME: CITY S19 COVER: CITY S19 C/W TEMPEST LMF75 ICD
MH2	95.72	SW93.710 SE93.670	NW93.649	COVER CITY STD S24.1 FRAME CITY STD S25 STRUC. OPSD 701.010
MH4	95.61	SE93.430	NW93.406	COVER CITY STD S24.1 FRAME CITY STD S25 STRUC. OPSD 701.010
MH5	95.59	SE93.270 EX.SW93.230	EX.NE93.220	COVER CITY STD S24.1 FRAME CITY STD S25 STRUC. OPSD 701.010

	CROSSING CONFLICT TABLE	
LOCATION	DESCRIPTION	SEPARATION
1*	200mmØ EXISTING SANITARY SEWER INV 93.53 150mmØ WATER SERVICE OBV 93.03 200mmØ EXISTING SANITARY SEWER INV 93.52	0.50
2*	200mmØ EXISTING SANITARY SEWER INV 93.52 150mmØ WATER SERVICE OBV 93.02 375mmØ EXISTING STM SEWER OBV 93.63	0.50
3	150mmØ SANITARY SERVICE INV 94.96	0.33
4*	375mmØ EXISTING STM SEWER INV 93.24 150mmØ WATER SERVICE OBV 92.74 375mmØ EXISTING STM SEWER INV 93.23	0.50
5*	375mmØ EXISTING STM SEWER INV 93.23 150mmØ WATER SERVICE OBV 92.73 150mmØ SANITARY SERVICE INV 94.18	0.50
6	150mmØ SANITARY SERVICE INV 94.18 50mmØ WATER SERVICE OBV 93.15 150mmØ SANITARY SERVICE INV 94.23	1.03
7	150mmØ SANITARY SERVICE INV 94.23 150mmØ STORM SERVICE OBV 93.98 150mmØ WATER SERVICE OBV 93.17	0.25
8	150mmØ STORM SERVICE INV 93.70	0.53
9	150mmØ SANITARY SERVICE INV 94.35 200mmØ STORM SERVICE OBV 93.95	0.40
10	150mmØ WATER SERVICE OBV 93.23 200mmØ STORM SERVICE INV 93.73 150mmØ HYDRANT LEAD OBV 93.16	0.50
11*	150mmØ HYDRANT LEAD OBV 93.16 300mmØ STORM SERVICE INV 93.66	0.50
*PROVIDE VER	TICAL BENDS AS REQUIRED TO MEET MINIMUM SEPARATI	ON

WATER COVER TABLE					
LOCATION	STATION	FINISHED GRADE	TOP OF PIPE	COVER	
A - 150 X 150 TEE	0+100.00	95.60	93.20	2.40	
CROSSING 1	0+101.06	95.62	93.03	2.59	
CROSSING 4	0+107.51	95.64	92.74	2.90	
VALVE	0+116.51	95.69	93.29	2.40	
150 X 150 TEE	0+117.52	95.67	93.27	2.40	
22.5° BEND	0+121.16	95.62	93.22	2.40	
22.5° BEND	0+123.12	95.57	93.17	2.40	
150 X 50 TEE	0+126.43	95.51	93.11	2.40	
CROSSING 8	0+130.79	95.57	93.17	2.40	
CROSSING 10	0+143.12	95.67	93.23	2.44	
BUILDING	0+153.97	95.92	93.52	2.40	
B - 150 X 150 TEE	0+200.00	95.60	93.20	2.40	
CROSSING 2	0+201.06	95.61	93.02	2.59	
22.5° BEND	0+202.14	95.64	93.24	2.40	
22.5° BEND	0+204.75	95.68	93.28	2.40	
CROSSING 5	0+207.69	95.63	92.73	2.90	
VALVE	0+216.69	95.69	93.29	2.40	
45° BEND	0+217.89	95.67	93.27	2.40	
45° BEND	0+218.35	95.67	93.27	2.40	

150 X 50 TEE	0+126.43	95.51	93.11	2.40
CROSSING 8	0+130.79	95.57	93.17	2.40
CROSSING 10	0+143.12	95.67	93.23	2.44
BUILDING	0+153.97	95.92	93.52	2.40
B - 150 X 150 TEE	0+200.00	95.60	93.20	2.40
CROSSING 2	0+201.06	95.61	93.02	2.59
22.5° BEND	0+202.14	95.64	93.24	2.40
22.5° BEND	0+204.75	95.68	93.28	2.40
CROSSING 5	0+207.69	95.63	92.73	2.90
VALVE	0+216.69	95.69	93.29	2.40
45° BEND	0+217.89	95.67	93.27	2.40
45° BEND	0+218.35	95.67	93.27	2.40
150 X 150 TEE	0+219.17	95.67	93.27	2.40
C - 150 X 150 TEE	0+300.00	95.68	93.28	2.40
CROSSING 11	0+301.00	95.71	93.16	2.55
VALVE	0+302.24	95.70	93.17	2.53
PROPOSED HYDRANT	0+303.51	95.85	93.45	2.40

WATERMAIN OR SERVICE WITH LESS THAN 2.4m COVER TO BE INSULATED PER CITY STD W22

WATERMAIN WITHIN 2.4m OF OPEN STRUCTURES TO BE INSULATED PER CITY STD W23

SITE LOCÁTION PLAN LEGEND LIMIT OF CONSTRUCTION CONCRETE BARRIER CURB ----- DRAINAGE SWALE CONCRETE WALKWAY ROPOSED HEAVY DUTY — — — DRAINAGE DITCH LSCB# LANDSCAPING CATCHBASIN SURFACE ELEVATION CATCHBASIN MANHOLE SWALE ELEVATION TOP OF WALL ELEVATION BOTTOM OF WALL ELEVATION ^B/W 94.25 SANITARY SEWER MANHOLF OVERLAND FLOW ROUTE FIRE HYDRANT - SILT FENCE BARRIER WATER VALVE STRAW BALE CHECK DAM WATER METER MUD MAT REMOTE WATER METER **ROOF SCUPPER** ROOF DRAIN

ISSUED FOR SITE PLAN CONTROI OCT. 10, 202 ISSUED FOR SITE PLAN CONTROI SEP. 25, 2023 ISSUED FOR SITE PLAN CONTROI JUNE 30, 202

By Allison Hamlin at 4:17 pm, Nov 01, 2023

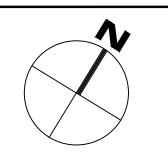
APPROVED

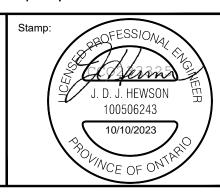
ISSUED FOR 33% COORDINATION JUNE 23, 202 **ISSUED FOR SITE PLAN CONTROI** MAR. 03, 202 Date Revisions Check and verify all dimensions

before proceeding with the work SCALE 1:250

McINTOSH PERRY

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Do not scale drawings

CSV ARCHITECTS 190 O'CONNOR STREET, SUITE 100 OTTAWA, ON K2P 2R3

RESIDENTIAL DEVELOPMENT 56 CAPILANO DRIVE, OTTAWA, ON

LOT GRADING, DRAINAGE, SERVICING, **EROSION & SEDIMENT CONTROL PLAN**

			\succeq
Scale:	1:250	Project Number:	7-6
Drawn By:	NV	CCO-23-3325	C-C
Checked By:	JH	Drawing Number:	7-1
Designed By:	NV	C101	

DRAWINGS. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY. RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION **EQUAL OR BETTER THAN ORIGINAL CONDITION**

THE ENGINEER AND THE CITY. FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

POSSIBLE, AND SHALL MAKE THEIR OWN JUDGEMENT AND ACCOUNT FOR ALL MATERIA

LOCATION OF THE CURRENT PROPERTY

BOUNDARIES AND EASEMENTS CAN ONLY BE

DETERMINED BY AN UP-TO-DATE LAND TITLES

SEARCH AND A SUBSEQUENT CADASTRAL

ONTARIO LAND SURVEYOR.

CONSTRUCTION.

THE CITY BEFORE COMMENCING

SURVEY PERFORMED AND CERTIFIED BY AN

THE CONTRACTOR IS TO OBTAIN AND PAY FOR

THE CONTRACTOR IS RESPONSIBLE FOR ALL

THE CONTRACTOR IS TO DETERMINE THE EXACT

ALL EXISTING UTILITIES PRIOR TO COMMENCING

LOCATION, SIZE, MATERIAL AND ELEVATION OF

CONSTRUCTION. PROTECT AND ASSUME ALL

RESPONSIBILITY FOR EXISTING UTILITIES

WHETHER OR NOT SHOWN ON THESE

ALL NECESSARY PERMITS AND APPROVALS FROM

AND TO THE SATISFACTION OF THE CITY EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT,

CURBING AND DEBRIS, OFF SITE AS DIRECTED BY TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN

CONTRACTOR TO MINIMIZE THE ACTUAL LIMITS OF REMOVALS AND REINSTATEMENT WHEREVER 18. ALL PROPOSED CURB TO BE CONCRETE BARRIER 5.1.1.

CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO ONE. BELL AND . CONTRACTOR TO ENSURE ALL APPLICABLE OPS SPECIFICATIONS ARE FOLLOWED DURING

CURB UNLESS OTHERWISE SPECIFIED.

TELEVISION SERVICE - ROGERS.

PRIOR APPROVAL OF THE ENGINEER/CITY.

THE CONTRACTOR IS TO PROVIDE POSITIVE

14. CONTACT THE CITY FOR INSPECTION OF ROUGH

GRADING OF PARKING LOTS, ROADWAYS AND

LANDSCAPED AREAS PRIOR TO PLACEMENT OF

ASPHALT AND TOPSOIL. ALL DEFICIENCIES

SATISFACTION PRIOR TO PLACEMENT OF ANY

ASPHALT, TOPSOIL, SEED & MULCH AND/OR

NOTED SHALL BE RECTIFIED TO THE CITY'S

5. ALL DIMENSIONS AND INVERTS MUST BE

DRAINAGE AWAY FROM THE BUILDING.

16. INSTALLATION TO BE IN ACCORDANCE WITH

12. DO NOT ALTER GRADING OF THE SITE WITHOUT 2. AT THE DISCRETION OF THE PROJECT MANAGER OR MUNICIPAL STAFF, ADDITIONAL SILT CONTROL DEVICES SHALL BE INSTALLED AT DESIGNATED LOCATIONS.

13. ALL ROADWAY, PARKING LOT, AND GRADING WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS. FOR SILT FENCE BARRIER, USE OPSD 219,110. GEOTEXTILE FOR SILT FENCE AS PER OPSS 1860, TABLE 3.

EXCEPT AS PROVIDED IN PARAGRAPHS 4.1., and 4.2. BELOW. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY HAS EMPORARILY OR PERMANENTLY CEASED.

WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY MPORARILY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED. (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY

VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY. 16. ELECTRICAL, GAS, TELEPHONE AND TELEVISION SERVICE LOCATIONS ARE SUBJECT TO THE CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT INDIVIDUAL AGENCY: PORTION OF SITE BY THE 14TH DAY AFTER ELECTRICAL SERVICE - HYDRO ONE. CONSTRUCTION ACTIVITY TEMPORARILY CEASED GAS SERVICE - ENBRIDGE • TELEPHONE SERVICE - BELL CANADA,

SEDIMENT THAT IS ACCUMULATED BY THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED IN A MANNER THAT AVOIDS ESCAPE OF THE SEDIMENT TO THE DOWNSTREAM SIDE OF THE CONTROL MEASURE AND AVOIDS DAMAGE TO THE CONTROL MEASURE. SEDIMENT SHALL BE REMOVED TO THE LEVEL OF THE GRADE EXISTING AT THE TIME THE CONTROL MEASURE WAS CONSTRUCTED AND BE ACCORDING TO THE FOR LIGHT-DUTY SEDIMENT BARRIERS, ACCUMULATED

SEDIMENT SHALL BE REMOVED ONCE IT REACHES THE

A DEPTH OF ONE-HALF THE EFFECTIVE HEIGHT OF

ESSER OF THE FOLLOWING

THE CONTROL MEASURE

TO CLEARING AND GRADING. THE USE OF WATER. CALCIUM CHLORIDE FLAKES/SOLUTION OR MAGNESIUM CHLORIDE FLAKES/SOLUTION SHALL BE USED AS DUST

SUPPRESSANTS AS PER OPSS 506. THIS IS TO LIMIT WIND EROSION OF SOILS WHICH MAY TRANSPORT SEDIMENTS OFFSITE, WHERE THEY MAY BE WASHED INTO THE RECEIVING WATER BY THE NEXT RAINSTORM.

. ALL 'GREEN AREAS' TO BE TREATED WITH 150mm TOPSOIL AND SOD AS SOON AS FEASIBLE, AS PER OPSS 570. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL

ONDITION OR BETTER UNLESS OTHERWISE SPECIFIED. O. STOCKPILED MATERIAL IS TO BE STORED AWAY FROM POTENTIAL RECEIVERS (E.G. STORM CATCHBASINS, MANHOLES), AND BE SURROUNDED BY EROSION CONTROL MEASURES WHERE MATERIAL IS LEFT IN PLACE IN EXCESS OF 14 DAYS.

. IF REQUIRED, DEWATERING/SETTLING BASINS SHALL BE CONSTRUCTED AS PER OPSD 219.240 AND LOCATED ON FLAT GRADE UPSTREAM OF OTHER EXISTING MITIGATION MEASURES. WATERCOURSES SHALL NOT BE DIVERTED, OR BLOCKED, AND TEMPORARY WATERCOURSES CROSSINGS SHALL NOT BE CONSTRUCTED OR UTILIZED, UNLESS

OTHERWISE SPECIFIED IN THE CONTRACT. IF CLOSURE OF ANY PERMANENT WATER PASSAGE IS NECESSARY. THE CONTRACTOR SHALL RELEASE ANY STRANDED FISH TO THE OPEN PORTION OF THE WATERCOURSE WITHOUT HARM 12. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL

CONFORM TO OPSS 577 3. WHERE DEWATERING IS REQUIRED, THE DISCHARGED WATER SHALL BE CONTROLLED IN ACCORDANCE WITH

4. ALL SETTLING/FILTRATION BASINS SHALL BE EQUIPPED

EQUIVALENT) AND SHALL BE CLEANED AND REPLACED AS

WITH TERRAFIX 270R GEOTEXTILE (OR APPROVED

BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0 METRES

4. THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY DETAIL W23.

VALVES TO BE OPERATED BY CITY STAFF ONLY. NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY, CITY TO BE PRESENT FOR WATERMAIN CONNECTION. CONNECTION, EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR.

. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ANY WATERMAIN CONNECTION(S) REQUIRED. THIS SHALL BE COMPLETED IN THE PRESENCE OF A DESIGNATED MUNICIPAL WATER OPERATOR AND THE SELECTED CONTRACTOR SHALL PROVE TO THE SATISFACTION OF THE CITY THAT THEY ARE COMPETENT TO PERFORM THE WORKS

PRIOR TO INITIATING CONSTRUCTION. CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010 AND OPSD 1103.020.

9. ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT. 10. ALL WATERMAIN TO BE EQUIPPED WITH TRACER

11. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER/LITHITY IS 0.25m FOR CROSSING OVER THE SEWER, AS PER CITY DETAIL W25.2 FOR CROSSING UNDER SEWER, THE MINIMUM VERTICAL CLEARANCE UNDER SEWER, ADEQUATE STRUCTURAL SUPPORT HE LENGTH OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE

5. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 100% SPMDD. SATISFACTION OF THE ENGINEER.

8. PAVEMENT STRUCTURE: REFER TO DETAIL.

1" REBAR FOR BAG REMOVAL FROM 2 EACH DUMP STRAPS EXPANSION RESTAIN (1/4" NYLON ROPE, 2" FLAT WASHERS) BAG DETAIL INSTALLATION DETAIL

INLET SEDIMENT CONTROL DEVICE