NOTES: 1 ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. 2 THE MINIMUM DEPTH OF COVER FROM THE FINISHED SURFACE TO THE EXTERNAL CROWN OF THE PIPE SHALL BE 750mm FOR SERVICE CONNECTIONS, 900mm FOR WATER MAINS. GREATER DEPTHS OF COVER AND/OR PIPE STRENGTH AND/OR A HIGHER CLASS OF BEDDING MATERIAL MAY BE REQUIRED WHERE HIGH TRAFFIC LOADING IS ANTICIPATED. THE MAXIMUM COVER SHOULD NOT EXCEED 1.2M WHERE PRACTICABLE. 3 CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS IS TO BE USED AS BACKFILL MATERIAL WHERE THE WATER MAIN IS LOCATED IN ROADS, FOOTPATHS OR WHEN THE NEAREST PART OF THE TRENCH IS WITHIN 1M OF THE PAVED EDGE OF THE ROADWAY, CLAUSE 808 IS TO BE COMPACTED AS PER CLAUSE 802 OF THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS. 4 SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN-FIELD AREAS ABOVE GRANULAR PIPE SURROUND MATERIAL SUBJECT TO THE APPROVAL OF IRISH WATER. 5 PIPE BEDDING SHALL COMPLY WITH WIS 4-08-02 AND IGN 4-08-01 GRANULAR MATERIAL SHALL BE 14mm TO 5mm GRADED AGGREGATE OR 10mm SINGLE SIZED AGGREGATE IS EN 13242. 6 IN SOFT GROUND CONDITIONS (CBR < 5) THE MATERIAL SHOULD BE EXCAVATED OUT AND DISPOSED OF IN ACCORDANCE WITH THE WASTE MANAGEMENT ACT AND CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS SHALL REPLACE THE EXCAVATED MATERIAL, WRAPPED IN GEO-TEXTILE WRAPPING, ALTERNATIVELY, SPECIAL PIPE SUPPORT ARRANGEMENTS, INCLUDING PILING ETC. MAY BE REQUIRED WHERE THE DEPTH OF SOFT MATERIAL IS EXCESSIVE. SUCH ARRANGEMENTS SHALL BE SUBJECT TO ASSESSMENT BY IRISH WATER BEFORE ADVANCING WITH THE WORK. 7 PIPES SHALL NOT BE SUPPORTED ON STONES OR ROCKS, OR ANY HARD OBJECT AT ANY POINT ALONG THE TRENCH. ROCK SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW GRASSED AREAS PIPE DIA 'A' MINIMUM TRENCH WIDTH 'B' CROSS SECTION IN GRASSED AREAS ROAD/FOOTPATH SURFACE PIPE DIA 'A' MINIMUM TRENCH

WIDTH 'B'

(STD - W - 13)

SCALE 1:20

THE ACTUAL DEPTH OF THE TRENCH WITH THE

INFRASTRUCTURE IRELAND SPECIFICATION FOR

VOID FILLED WITH CLAUSE 804 MATERIAL IN

ACCORDANCE WITH THE TRANSPORT

ROAD WORKS. THE GRANULAR MATERIAL

MATERIAL

BACKFILL MATERIAL.

SHALL BE LAID ABOVE THIS VOID BACKFILL

8 SHOULD MINIMUM COVER NOT BE ACHIEVABLE,

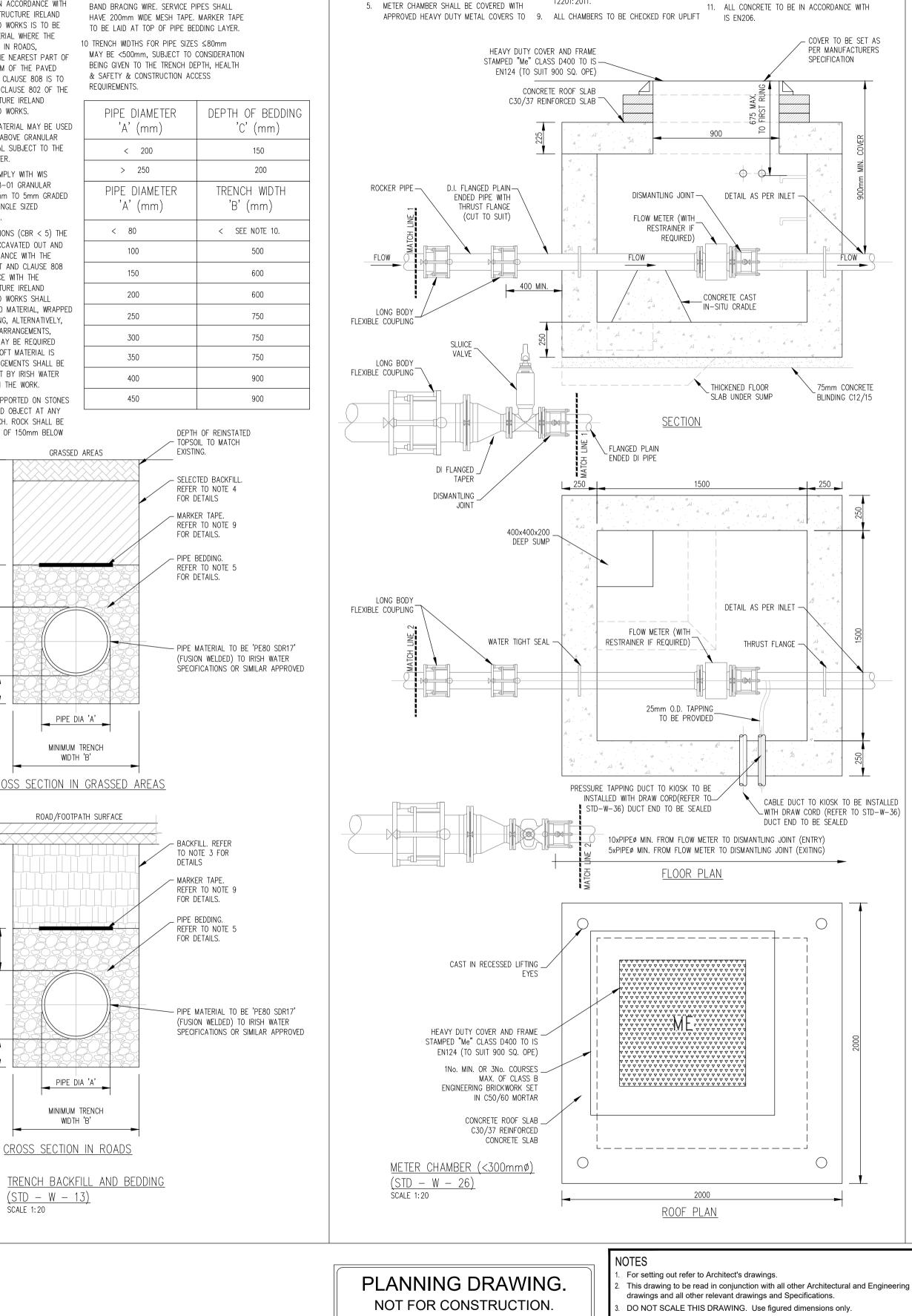
9 MARKER TAPE TO BE 400mm WIDE BLUE

POLYETHYLENE MATERIAL IN ACCORDANCE

WITH EN 12163, PLASTIC PIPES SHALL HAVE

WARNING TAPE INCORPORATED A REINFORCED

CONCRETE GRADE C8/10 SHALL BE USED AS



1. ALL DIMENSIONS ARE IN MILLIMETRES (mm)

UNLESS NOTED OTHERWISE.

2. SLUICE VALVE CHAMBERS SHALL BE 2. STRUCTURAL DESIGN AND REINFORCEMENT IRISH WATER. METAL BAND AROUND COVER IN GREEN 200mm ALL ROUND, 100mm DEEP COVERED WITH APPROVED HEAVY DUTY DETAIL TO BE PROVIDED BY THE DEVELOPER PIPEWORK TO BE DOWNSIZED TO CONCRETE PLINTH WITH PROTECTIVE METAL COVERS TO IS 261 OR BS 5834. AND SUBMITTED TO IRISH WATER FOR STAINLESS STEEL METAL BAND AROUND ACCOMMODATE THE REQUIRED RANGE OF COVER AND FRAME SHALL BE SUITABLE FOR 9. THRUST BLOCKS(NOT SHOWN ON DRAWING) COVER IN GRASS AREAS. THE FLOW METER. STRAIGHT PIPE LENGTHS ROAD AND TRAFFIC CONDITIONS AND IS TO BE PROVIDED AS PER STANDARD 3. CONCRETE FOR FLOW METER CHAMBER TO 7 UPSTREAM AND DOWNSTREAM OF THE METER ANTI CORROSION TAPE TO BE PROVIDED SUBJECT TO THE APPROVAL OF IRISH DRAWING STD-W-28 AT ALL TEES AND TO BE PROVIDED. IF THE METER IS NOT BE C30/37 AROUND BURIED FLANGES. WATER BENDS, TAPERS, DEAD ENDS AND PIPES AT CAPABLE OF ACCURATE NIGHT FLOW 4. PRECAST METER CHAMBER(WITH CONCRETE 8. DUCTILE IRON PIPES AND FITTINGS TO BE IN STEEP SLOPES. 3. SLUICE VALVES SHALL BE RESILIENT SEATED MEASUREMENTS, A BY-PASS FLOW METER SURROUND) MAY BE USED SUBJECT TO IRISH ACCORDANCE WITH IS EN545. PE PIPES AND AND SHALL COMPLY WITH BS 5163-1. BS 10. ANTICORROSION TAPE TO BE PROVIDED SHALL BE PROVIDED WITH APPROPRIATE WATER APPROVAL. FITTINGS TO BE IN ACCORDANCE WITH IS EN VALVES, FITTINGS AND PIPEWORK. 5163-2, IS EN 1074-1, IS EN 1074-2, OR AROUND BURIED FLANGES. 12201: 2011. EQUIVALENT EU SPECIFICATIONS. 11. ALL CONCRETE TO BE IN ACCORDANCE WITH 11. ALL CONCRETE TO BE IN ACCORDANCE WITH 4. ALL SLUICE VALVES SHALL BE IS EN 206 ANTI-CLOCKWISE CLOSING. 12. ALL THRUST FLANGES TO BE ADEQUATELY - COVER TO BE SET AS VALVE CHAMBER TO BE CONSTRUCTED OF PER MANUFACTURERS PRECAST CONCRETE UNITS OR HIGH SPECIFICATION DENSITY BLOCKWORK. ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED SUBJECT TO APPROVAL FROM IRISH WATER. 6. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER STD-W-13. PLINTH IN GRASSED AREAS 75mm CONCRETE GROUND CLASS B ENGINEERING BRICK SET IN C50/60 MORTAR CONCRETE ROOF SLAB C30/37 REINFORCED SLAB CONCRETE BASE C25/30 -LONG BODY -FLEXIBLE COUPLING FLANGED/PLAIN ENDED PIPE -CUT TO SUIT FLANGED SLUICE VALVE -**SECTION** HEAVY DUTY COVER AND-CABLE DUCT TO KIOSK TO BE INSTALLED FRAME, STAMPED 'SV' CLASS ∼WITH DRAW CORD (REFER TO STD-W-36) D400 (TO SUIT 445x280 OPE) DUCT END TO BE SEALED ROOF PLAN

IS EN124 RATING D400. COVER AND FRAME BY THE DEVELOPER BASED ON GROUND

CONDITIONS WITHIN THE SITE, SHOULD ANTI

FLOATATION MEASURES BE REQUIRED THEY

SHALL BE SUBJECT TO APPROVAL FROM

SHALL BE SUITABLE FOR ROAD AND TRAFFIC

CONDITIONS AND IS SUBJECT TO THE

APPROVAL OF IRISH WATER.

STAINLESS STEEL METAL BAND - COVER TO MANUFACTURERS SPECIFICATION EXTENSION SPINDLE UNITS (REFER TO NOTE 5) - REFER TO STD-W-13 FOR BEDDING DETAILS DISMANTLING JOINT - CONCRETE SUPPORT CONCRETE ROOF SLAB C30/37 REINFORCED SLAB - PRECAST CONCRETE UNITS (REFER TO NOTE 5) FLOOR PLAN

SLUICE VALVE CHAMBER

(STD - W - 14)

SCALE 1:20

(PRECAST CONCRETE CONSTRUCTION)

NOTES: 1. 1 ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. 2. HYDRANT CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 OR BS 5834. COVER AND FRAME SHALL BE SUITABLE FOR ROAD 8. 200mm ALL AROUND, 100mm DEEP AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER 3. ALL HYDRANTS, SURFACE BOX FRAMES AND COVERS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF IS EN 14339, IS TO BE PROVIDED AS PER STANDARD EN 1074-6 & BS 750. FIRE HYDRANTS SHALL BE TYPE 2. THE HYDRANT INLET SHALL BE 80mm DIAMETER WITH PN16. 4. ALL HYDRANTS SHALL BE CLOCKWISE CLOSING. 5. VALVE CHAMBER TO BE CONSTRUCTED OF 11. ALL CONCRETE TO BE IN ACCORDANCE WITH PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK, ALTERNATIVELY

RESTRAINED BY THRUST BLOCKS AS PER DRAWING No. STD-W-28. THRUST BLOCKS NOT SHOWN FOR CLARITY

7. DUCTILE IRON PIPES AND FITTINGS TO BE IN

CONCRETE PLINTH WITH PROTECTIVE STEEL

ACCORDANCE WITH IS EN 545.

8. 200mm ALL AROUND, 100mm DEEP

1. 1 ALL DIMENSIONS ARE IN MILLIMETRES

(mm) UNLESS NOTED OTHERWISE.

PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED SUBJECT TO APPROVAL FROM IRISH WATER.

6. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER

7. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545.

CONCRETE PLINTH WITH PROTECTIVE STEEL METAL BAND AROUND COVER IN GREEN

9. THRUST BLOCKS(NOT SHOWN ON DRAWING) DRAWING STD-W-28 AT ALL TEES AND BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.

10. ANTICORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.

200 | 445 | 200

PLINTH IN GRASSED AREAS

ROOF PLAN

FLOOR PLAN

(PRECAST CONCRETE CONSTRUCTION)

FIRE HYDRANT CHAMBER

(STD - W - 16)

GROUND

CLASS B ENGINEERING BRICK

SET IN C50/60 MORTAR

CONCRETE ROOF SLAB

DI DOUBLE FLANGED DN80, 50 -

C30/37 REINFORCED SLAB

RISER PIPE OF SUITABLE -

CONCRETE BASE C25/30

HEAVY DUTY COVER-

AND FRAME, STAMPED

SUIT 445x280 OPE)

'FH' CLASS D400 (TO

LENGTH TO SUIT CONDITIONS

STAINLESS STEEL

METAL BAND

_ COVER TO

MANUFACTURERS

SPECIFICATION

PRECAST CONCRETE

← REFER TO STD-W-13

FOR BEDDING DETAILS

— DUCTILE IRON

SOCKETED

BRANCH

TEE WITH FLANGED

CONCRETE ROOF SLAB

C30/37 REINFORCED SLAB

- PRECAST CONCRETE UNITS

(REFER TO NOTE 5)

UNITS (REFER TO NOTE 5)

NOTES:

1. 1 ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.

ROAD AND TRAFFIC CONDITIONS AND IS

SUBJECT TO THE APPROVAL OF IRISH

REQUIREMENTS OF IS EN 1074-4. AIR

WITH FLANGES DRILLED TO PN 16 IN

5. SERVICE CONNECTIONS SHALL NOT BE

CONCRETE UNITS OR HIGH DENSITY

VALVE.

LOCATION.

ACCORDANCE WITH BS EN 1092. EACH

PROVIDED WITHIN 2m OF THE AIR VALVE

VALVE SHALL HAVE A LARGE AND A SMALL

VALVES SHALL BE DOUBLE ORIFICE TYPE

AIR VALVES SHALL COMPLY WITH THE

BE USED, SUBJECT TO APPROVAL FROM 2. AIR VALVE CHAMBERS SHALL BE COVERED PRECAST CONCRETE CHAMBERS SHALL BE WITH APPROVED VENTILATED HEAVY DUTY METAL COVERS TO IS EN 124 RATING D400.

SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER COVER AND FRAME SHALL BE SUITABLE FOR STD-WW-13.

BLOCKWORK. ALTERNATIVE PROPRIETARY

PREFABRICATED CHAMBER UNITS MAY ALSO

8. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545.

9. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STEEL METAL BAND AROUND COVER IN GREEN

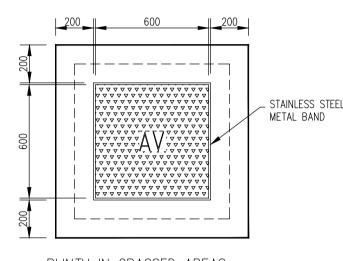
AND SHALL INCLUDE AN ISOLATING VALVE. THE ISOLATING VALVE SHALL BE A GATE 10. THRUST BLOCKS(NOT SHOWN ON DRAWING) VALVE CONFORMING TO IS EN 1074-2 AND TO BE PROVIDED AS PER STANDARD SHALL BE OF A BOLTLESS BONNET DESIGN DRAWING STD-W-28 AT ALL TEES AND 4. THE AIR VALVES SHALL OF BODIES AND BENDS, TAPERS, DEAD ENDS AND PIPES AT COVERS OF CAST IRON TO BS EN 1563 STEEP SLOPES.

> 11. ANTICORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.

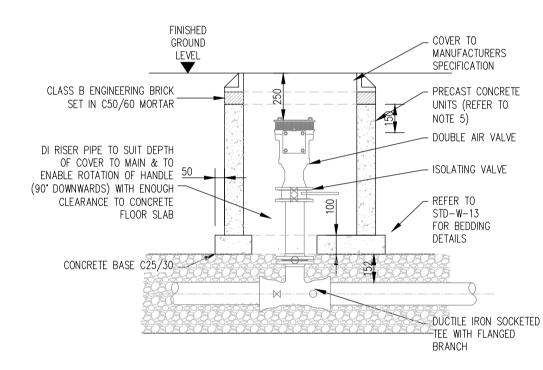
AIR ESCAPE ORIFICE WITH AN ISOLATING 12. THE LOCATION OF THE AIR VALVE SHALL BE THE SUBJECT OF PARTICULAR AGREEMENT WITH IRISH WATER TO ENSURE THAT THE RISK OF CONTAMINATION THROUGH THE VALVE IS ELIMINATED;.

6. AIR VALVE CHAMBERS TO BE OF PRECAST

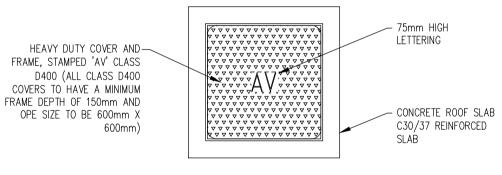
13. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206



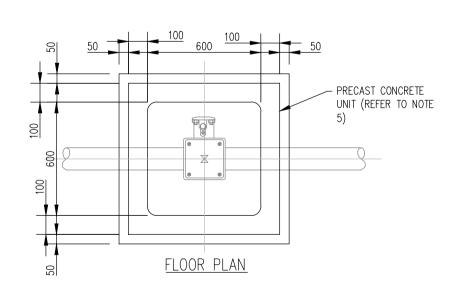
PLINTH IN GRASSED AREAS



SECTION



ROOF PLAN



AIR VALVE CHAMBER (PRECAST CONCRETE CONSTRUCTION) (STD - W - 20)

ALL LEVELS GIVEN ARE RELATIVE TO ORDNANCE DATUM. THIS DRAWING HAS BEEN ISSUED FOR INFORMATION PURPOSES ONLY AND MUST NOT BE USED

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PAC/SHD/162/20 Scott Tallon Walker Proposed Development at Clonkeen Road Watermain Details W012-CSC-ZZ-XX-DR-C-0018

JS RFM OS AS SHOWN @ A1

