

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH RULE 62-555.314, F.A.C.

The following table summarizes the required separation distances from public water mains to other pipes as provided in Rule 62-555.314, F.A.C. Exceptions to these required distances are addressed on the second page.

Separation Requirements for Public Water System Mains:

Other Pipe	Horizontal Separation (X)	Crossings Vertical Separation (Y)	Joint Spacing (Z) @ Crossings (Full Joint Centered)
<ul style="list-style-type: none"> Storm Sewers Stormwater Force Mains Reclaimed Water Pipelines regulated under Part III of Chapter 62-610, F.A.C.	3 ft. minimum	For water main installed above other pipe (preferred), 12 inches is the minimum except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum
<ul style="list-style-type: none"> Vacuum Sanitary Sewer 	10 ft. preferred 3 ft. minimum	For water main installed above other pipe, 12 inches preferred and 6 inches minimum	Alternate 3 ft. minimum
<ul style="list-style-type: none"> Gravity or Pressure Sanitary Sewer Sanitary Sewer Force Main Reclaimed Water Pipelines not regulated under Part III of Chapter 62-610, F.A.C.	10 ft. preferred 6 ft. minimum (note - 3 ft. minimum for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer)	For water main installed above other pipe (preferred), 12 inches is the minimum except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 6 ft. minimum
<ul style="list-style-type: none"> On-Site Sewage Treatment & Disposal System 	10 ft. minimum	NA	NA

Refer to the next page for exceptions to the minimum separation requirements provided above.
Disclaimer - This document is provided for your convenience only. Please refer to Rule 62-555.314, F.A.C., for additional construction requirements.

EXCEPTIONS TO MINIMUM SEPARATION REQUIREMENTS

Where it is not technically feasible or economically sensible to comply with the requirements of 62-555.314(1) or (2), F.A.C., the Department shall allow exceptions to these requirements if suppliers of water or construction permit applicants provide technical or economic justification for each exception and provide alternative construction features that afford a similar level of reliability and public health protection.

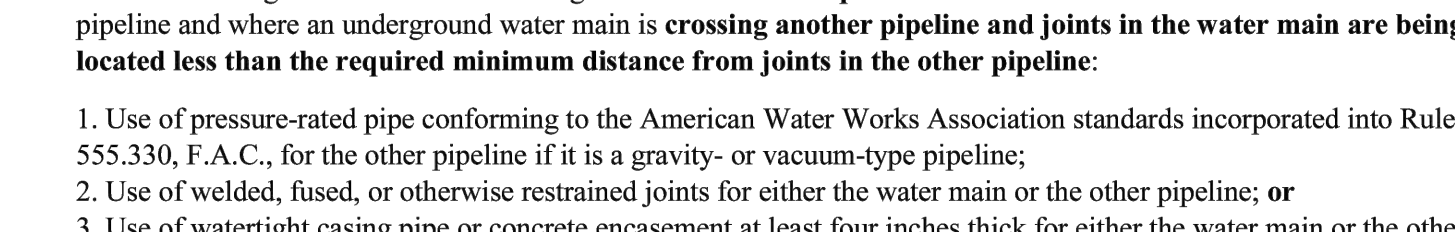
Acceptable alternative construction features include the following:

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH 62-555.314(5)(a), F.A.C.

Figure 1. Horizontal separation distance X less than required but not less than 3 feet



Figure 2. Joint spacing distance Z less than required

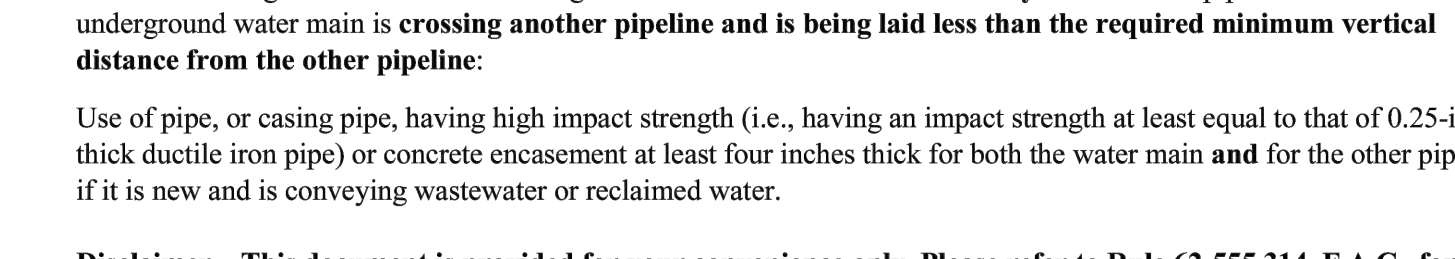


LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH 62-555.314(5)(b), F.A.C.

Figure 3. Horizontal separation distance X less than 3 feet



Figure 4. Crossing vertical separation distance Y less than required

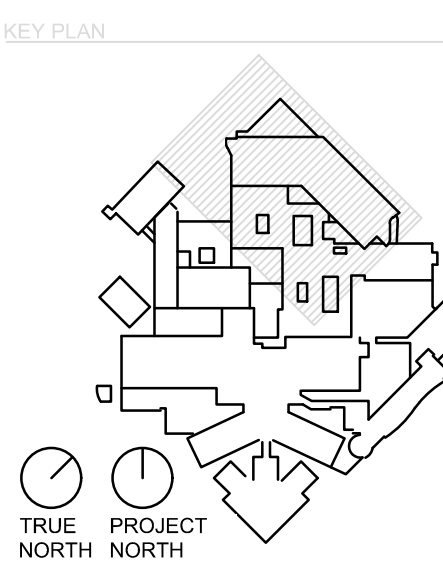


Where an underground water main is being laid less than three feet horizontally from another pipeline and where an underground water main is crossing another pipeline and is being laid less than the required minimum vertical distance from the other pipeline:

- Use of pressure-rated pipe conforming to the American Water Works Association standards incorporated into Rule 62-555.330, F.A.C., for the other pipeline if it is a gravity- or vacuum-type pipeline;
- Use of welded, fused, or otherwise restrained joints for either the water main or the other pipeline; or
- Use of watertight casing pipe or concrete encasement at least four inches thick for either the water main or the other pipeline.

Use of pipe, or casing pipe, having high impact strength (i.e., having an impact strength at least equal to that of 0.25-inch-thick ductile iron pipe) or concrete encasement at least four inches thick for both the water main and for the other pipeline if it is new and is conveying wastewater or reclaimed water.

Disclaimer - This document is provided for your convenience only. Please refer to Rule 62-555.314, F.A.C., for additional construction requirements.

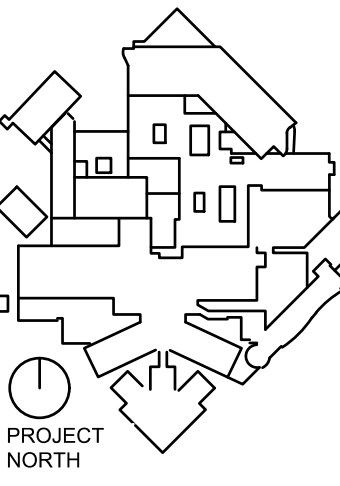


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ISSUED FOR CONSTRUCTION
 SHEET TITLE
UTILITY PROFILE

SHEET NO.
C06A

TITLE BLOCK VERSION: 20250208
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BROWARD COUNTY PUBLIC WORKS DEPARTMENT WATER & WASTEWATER SERVICES ENGINEERING DIVISION 2305 WEST COVING ROAD FORTLAUDERDALE, FL 33309 PHONE NO. 954-631-0745 FAX NO. 954-631-0628

STANDARD DETAIL

DUCTILE IRON PIPE

Diameter	HORIZONTAL, L (FEET)					45° VERTICAL OFFSET (FEET)	
	11 1/2"	22 1/2"	45"	90"	Te e of Cross	UPPER	LOWER
4	1	2	4	10	7	20	4
6	2	3	6	14	15	28	5
8	2	4	8	17	23	37	7
10	2	5	9	21	30	44	8
12	3	5	10	24	38	52	9

PVC PIPE

Diameter	HORIZONTAL, L (FEET)					45° VERTICAL OFFSET (FEET)	
	11 1/2"	22 1/2"	45"	90"	Te e of Cross	UPPER	LOWER
4	2	3	5	12	11	32	5
6	2	4	7	16	23	45	6
8	3	5	9	21	37	59	8
10	3	5	11	25	48	71	9
12	3	6	12	29	61	83	11

SINGLE FITTING RESTRAINED JOINT 150 PSI TEST PRESSURE

REPLACES FORMER DWG NO. 109
REVISED 5/14/2018

RESTRAINED JOINT REQUIREMENTS SINGLE FITTING

FIGURE 109

TYPICAL TAPPING SLEEVE AND VALVE SETTING

ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP DRAWING NO. G-06
APPROVED: XXX

TYPICAL VALVE BOX SETTING

ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP DRAWING NO. G-05
APPROVED: XXX

UTILITY CROSSING DETAIL

ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP DRAWING NO. G-04
APPROVED: XXX

BROWARD COUNTY PUBLIC WORKS DEPARTMENT WATER & WASTEWATER SERVICES ENGINEERING DIVISION 2305 WEST COVING ROAD FORTLAUDERDALE, FL 33309 PHONE NO. 954-631-0745 FAX NO. 954-631-0628

STANDARD DETAIL

RESTRAINED REDUCING FITTING 150 PSI TEST PRESSURE

REPLACES FORMER DWG NO. 112
REVISED 5/14/2018

RESTRAINED JOINT REQUIREMENTS REDUCING FITTINGS

FIGURE 112

BROWARD COUNTY PUBLIC WORKS DEPARTMENT WATER & WASTEWATER SERVICES ENGINEERING DIVISION 2305 WEST COVING ROAD FORTLAUDERDALE, FL 33309 PHONE NO. 954-631-0745 FAX NO. 954-631-0628

STANDARD DETAIL

FLEXIBLE PAVEMENT RESTORATION NOTES

ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 11/06/2017
DRAWN: EAP DRAWING NO. G-12
APPROVED: XXX

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STANDARD DETAIL

RESTRAINED REDUCING FITTING 150 PSI TEST PRESSURE

ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP DRAWING NO. S-01
APPROVED: XXX

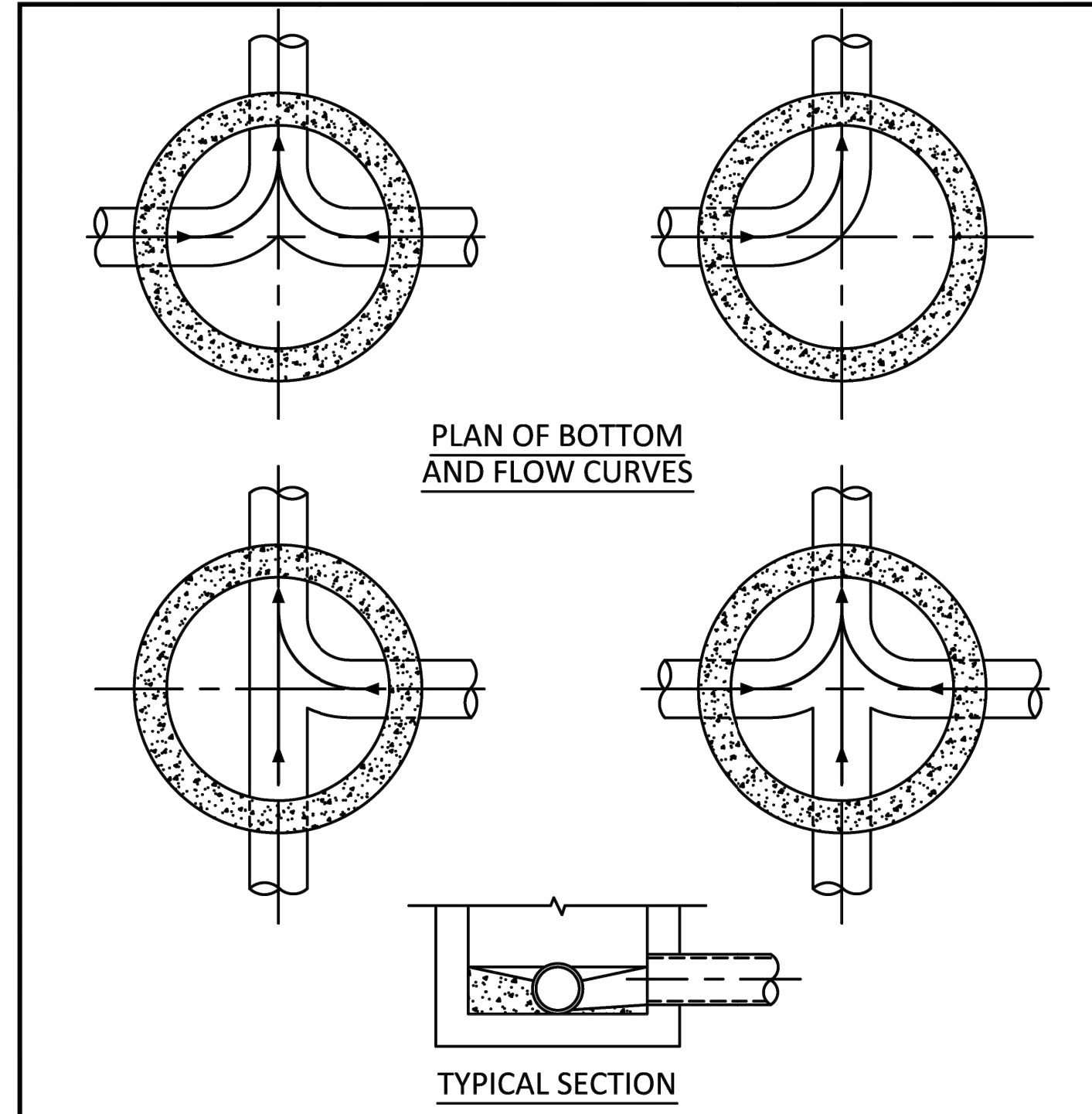
BROWARD COUNTY PUBLIC WORKS DEPARTMENT WATER & WASTEWATER SERVICES ENGINEERING DIVISION 2305 WEST COVING ROAD FORTLAUDERDALE, FL 33309 PHONE NO. 954-631-0745 FAX NO. 954-631-0628

STANDARD DETAIL

FLEXIBLE PAVEMENT RESTORATION NOTES

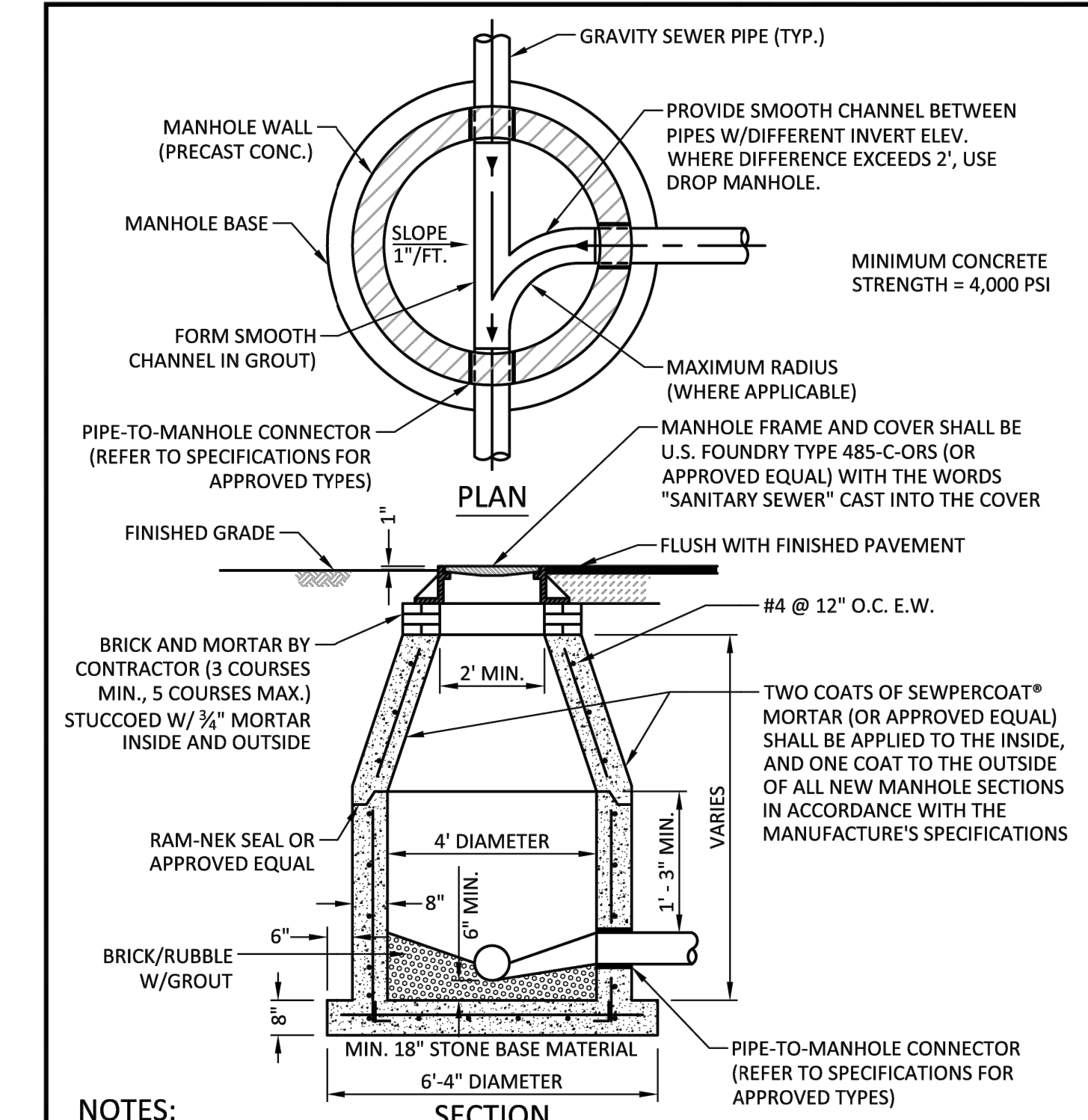
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APPROVED: XXX

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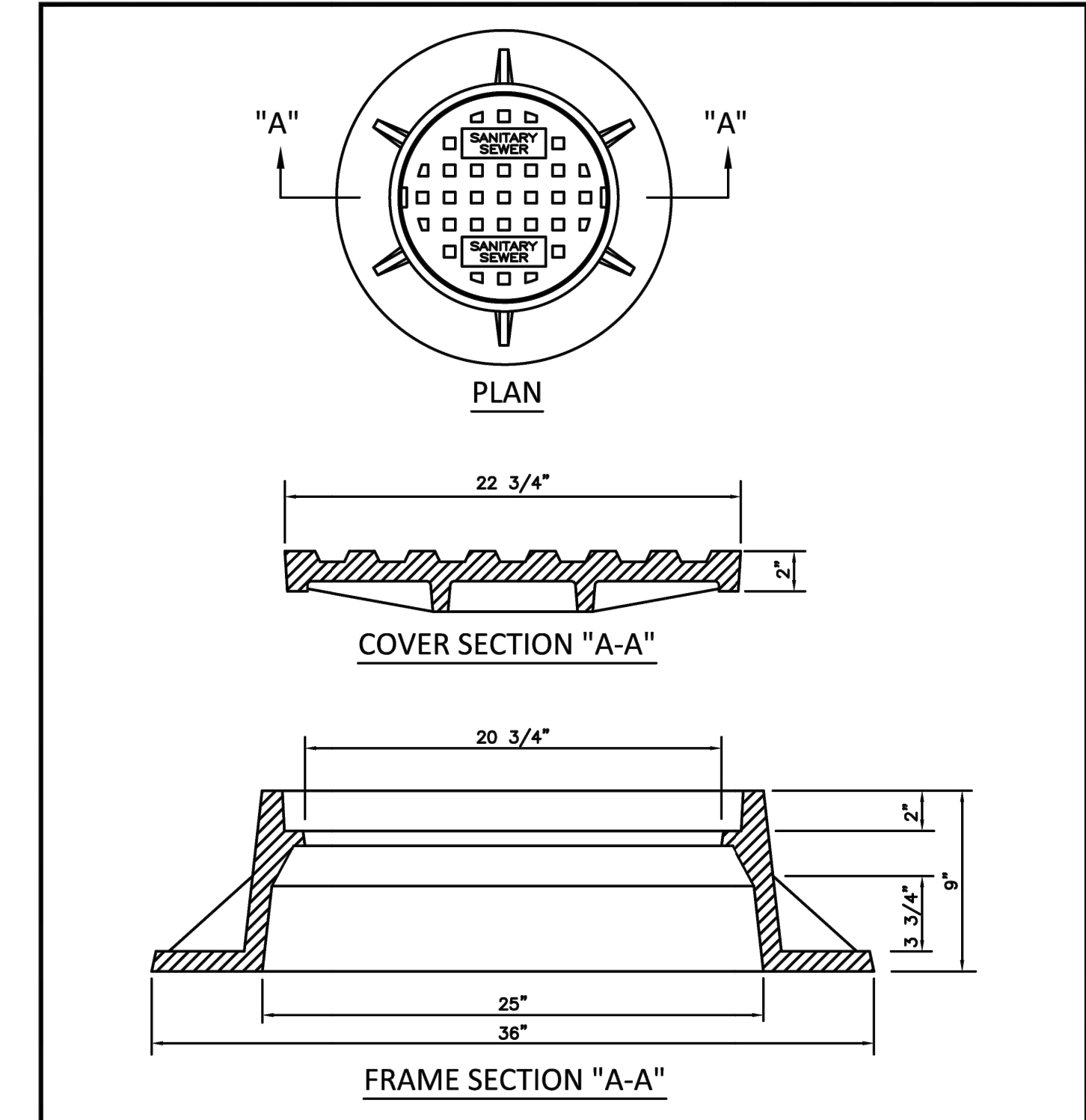
- NOTES:**
1. INVERT CHANNELS TO BE CONSTRUCTED FOR SMOOTH FLOW WITH NO OBSTRUCTIONS.
 2. SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS PROVIDING SMOOTH FLOWS.
 3. CHANNELS FOR FUTURE CONNECTIONS (STUBS) SHALL BE CONSTRUCTED FILLED WITH SAND & COVERED WITH 1" OF MORTAR.
 4. WHEN FLOW LINE DEFLECTS MORE THAN 45°, A DROP OF 0.10' IS REQUIRED.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	MANHOLE FLOW PATTERNS	DRAWING NO. S-02
APPROVED: XXX		



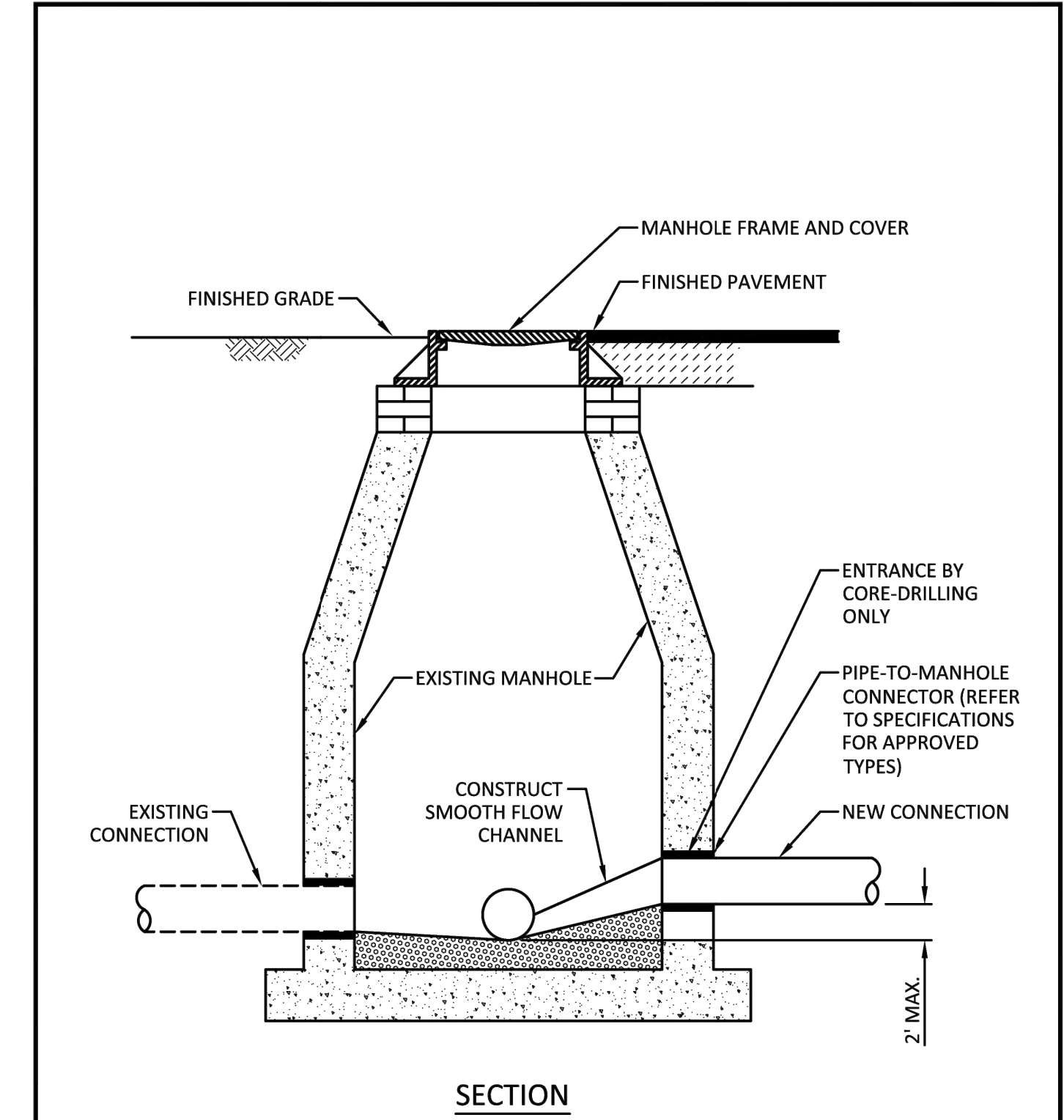
- NOTES:**
1. SHOP DRAWINGS SHOWING ALL DIMENSIONS, INCLUDING CONCRETE REINFORCEMENT AND BUOYANCY, SHALL BE SUBMITTED TO THE CITY PRIOR TO INSTALLATION.
 2. THE BOTTOM SLAB SHALL BE CAST MONOLITHICALLY WITH THE LOWER WALL SECTION TO A MINIMUM OF 3' ABOVE SLAB BASE.
 3. NO CONSTRUCTION JOINTS ARE ALLOWED BELOW ELEVATION +2.00 NAVD. ABOVE ELEVATION +2.00 NAVD CONSTRUCTION JOINTS ARE ALLOWED, IF ADEQUATE JOINTS WITH KEY-WAYS AND WATER STOPS ARE PROVIDED. SUBMIT SHOP DRAWINGS OF JOINT DETAILS TO THE ENGINEER FOR APPROVAL.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 07/18/2018
DRAWN: EAM	STANDARD PRECAST MANHOLE	DRAWING NO. S-03
APPROVED: XXX		

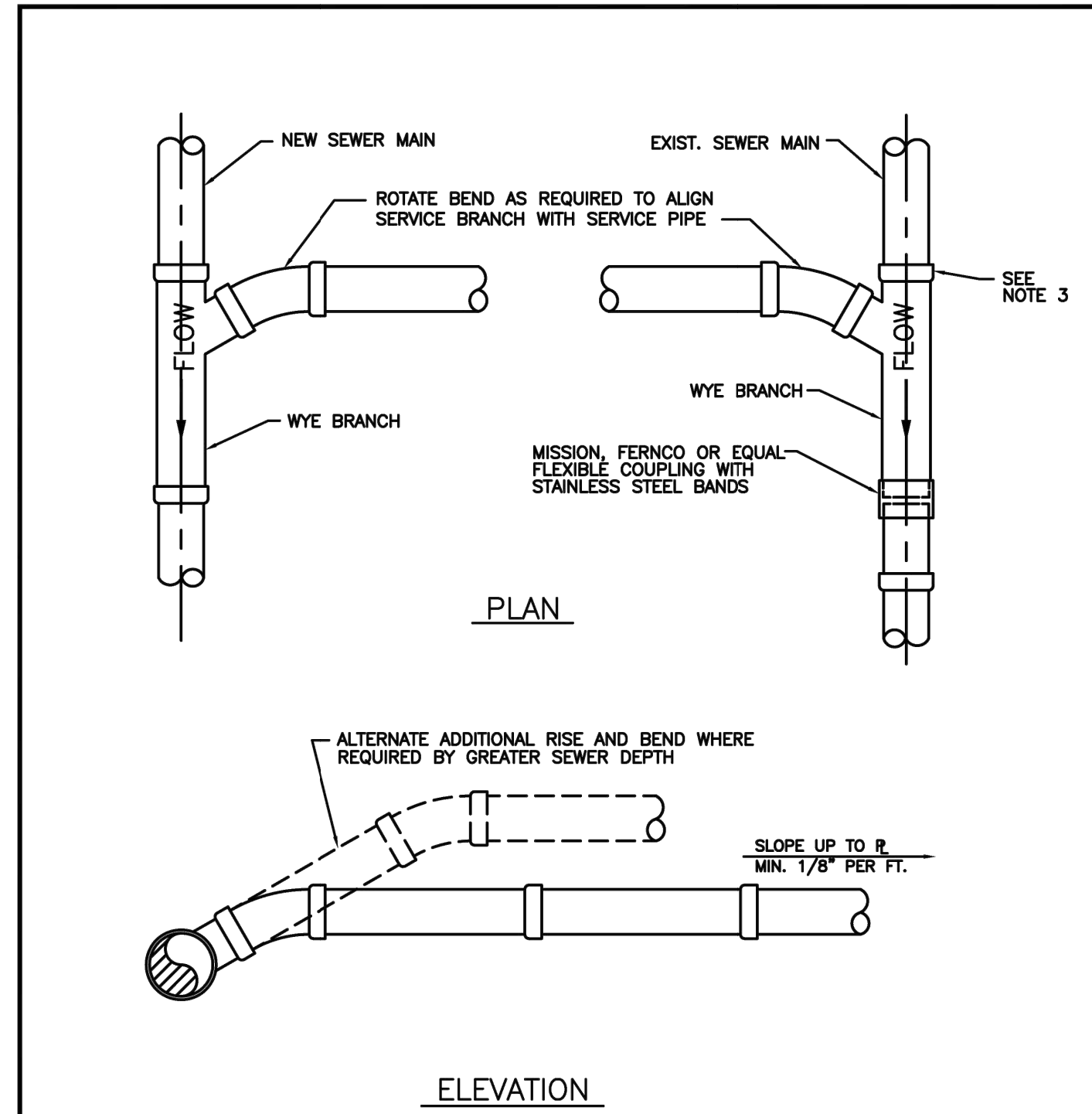


- NOTES:**
1. LETTERS ON COVER TO BE 3/8" HIGH, 3/4" TO 5/16" THICK AND FLUSH WITH TOP OF COVER.
 2. ALL BEARING SURFACES TO BE MACHINED.
 3. MINIMUM WEIGHTS: COVER - 160 LBS., TOTAL - 400 LBS.
 4. MANHOLE FRAME AND COVER SHALL BE U.S. FOUNDRY 48S-C-ORS WITH THE WORDS "SANITARY SEWER" CAST INTO THE COVER.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	MANHOLE FRAME AND COVER	DRAWING NO. S-06
APPROVED: XXX		

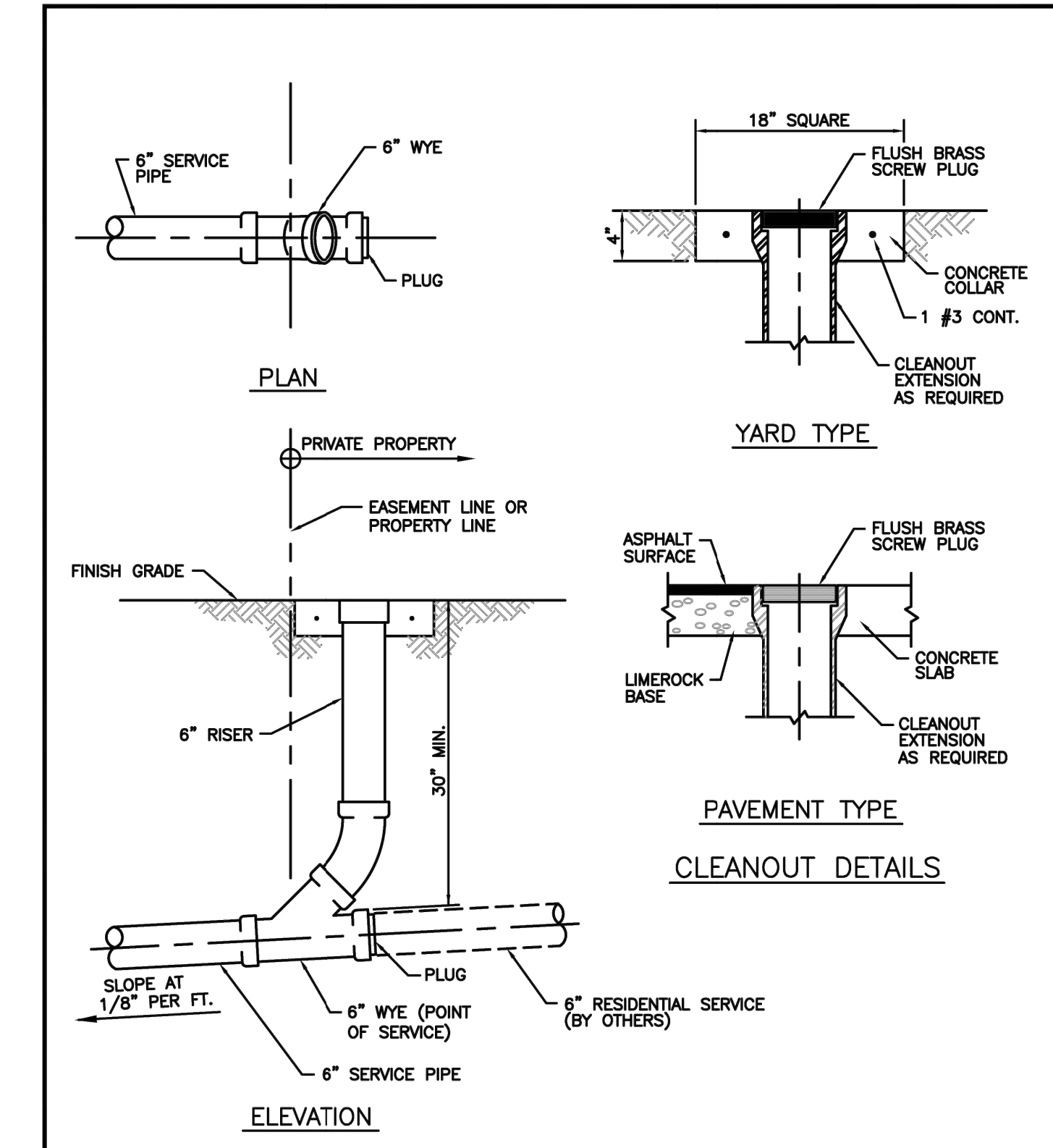


ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	NEW CONNECTION TO EXISTING MANHOLE	DRAWING NO. S-07
APPROVED: XXX		

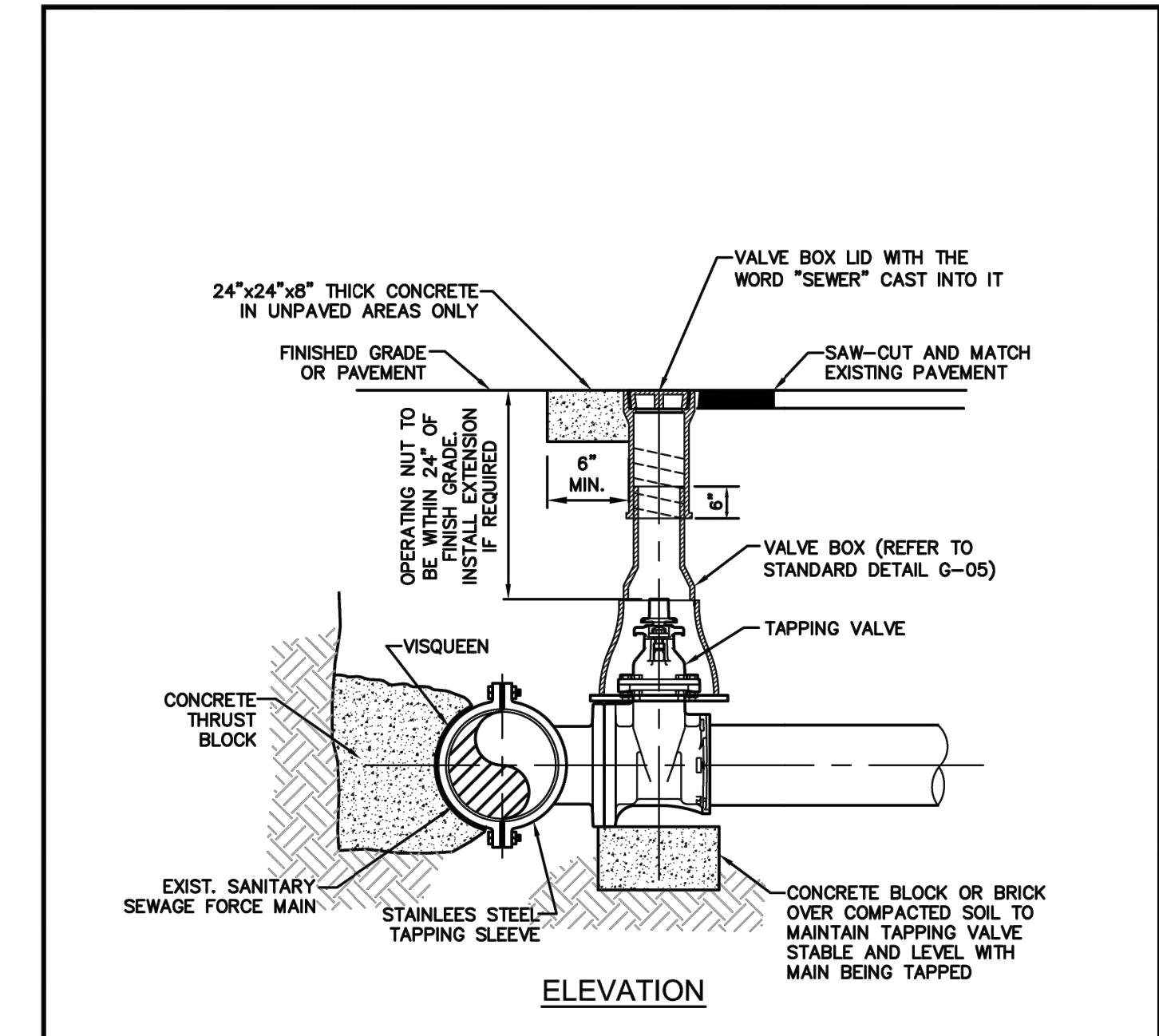


- NOTES:**
1. SINGLE SERVICE CONNECTIONS SHALL USE 6" PIPE AND FITTINGS.
 2. USE RISER CONNECTIONS WHERE INVERT OF SEWER IS GREATER THAN 7'-0" DEEP.
 3. WHERE BELL OF WYE AND SPIGOT OF EXISTING MAIN ARE NOT COMPATIBLE, USE A SECOND FLEXIBLE COUPLING.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	WYE BRANCH CONNECTION	DRAWING NO. S-09
APPROVED: XXX		

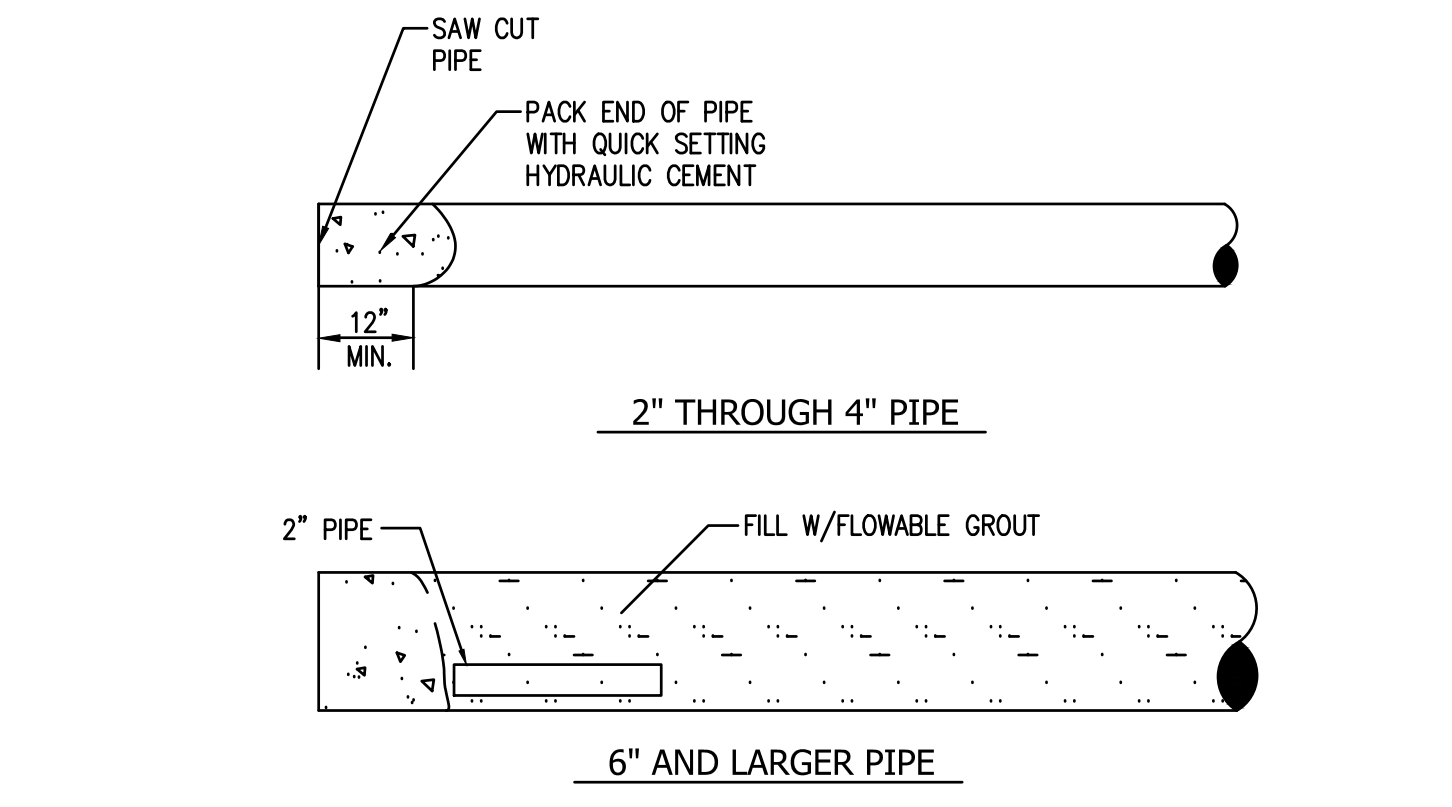


ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	SEWER SERVICE CONNECTION AND CLEANOUT AT PROPERTY LINE	DRAWING NO. S-12
APPROVED: XXX		



- NOTES:**
1. REFER TO STANDARD DETAIL GS-06, "TYPICAL TAPPING SLEEVE AND VALVE SETTING"
 2. REFER TO STANDARD DETAIL S-14, "PRIVATE FORCE MAIN TIE-IN AT PROPERTY LINE"

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	FORCE MAIN CONNECTION	DRAWING NO. S-13
APPROVED: XXX		



- NOTES:**
1. INSTALL 2" PIPE AT BOTH ENDS OF LINE TO BE ABANDONED. GROUT IN PLACE WITH QUICK SETTING HYDRAULIC CEMENT.
 2. PUMP FLOWABLE GROUT FROM ONE END, OR INTERMEDIATE POINTS ALONG THE PIPELINE, UNTIL PIPE IS FILLED AS WITNESSED BY THE DISCHARGE FROM 2" PIPE(S).

ABANDONED PIPE DETAIL
Scale: NTS

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	FORCE MAIN CONNECTION	DRAWING NO. S-13
APPROVED: XXX		

FOR PERMITTING
ELEVATIONS ARE IN NAVD 88

C08 UTILITY DETAILS
NOT TO SCALE

HKS

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2020 SALZEDO STREET, 4TH FLOOR
CORAL GABLES, FL 33134

INTERIOR DESIGNER
HKS ARCHITECTS
225 EAST ROBINSON ST, SUITE #405
ORLANDO, FL 32801

CIVIL & LANDSCAPE
CGA SOLUTIONS
1800 ELLER DRIVE, SUITE 600
FORT LAUDERDALE, FL 33316

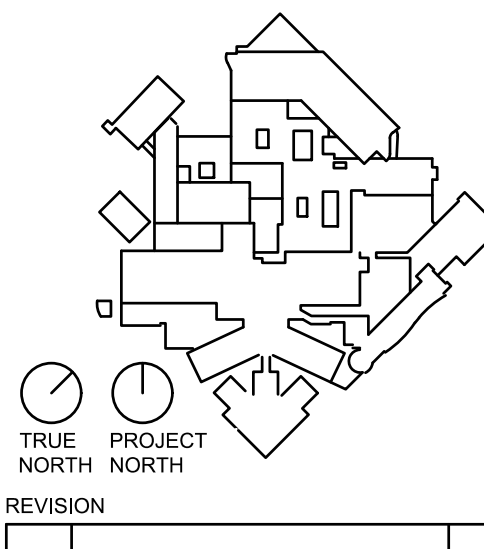
STRUCTURAL ENGINEER
GMS STRUCTURAL ENGINEERS
14335 COMMERCE WAY
MIAMI LAKES, FL 33016

MEP & FIRE PROTECTION
TLC ENGINEERING SOLUTIONS, INC.
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DEERFIELD BEACH, FL 33441

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2995 SISCO DRIVE
NASHVILLE, TN 37204

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MEMORIAL HEALTHCARE SYSTEM
3501 JOHNSON STREET
HOLLYWOOD, FL 33021

Memorial Regional Hospital
SURGICAL & CRITICAL CARE TOWER EXPANSION
ENABLING PACKAGE
3501 JOHNSON STREET, HOLLYWOOD, FL 33021

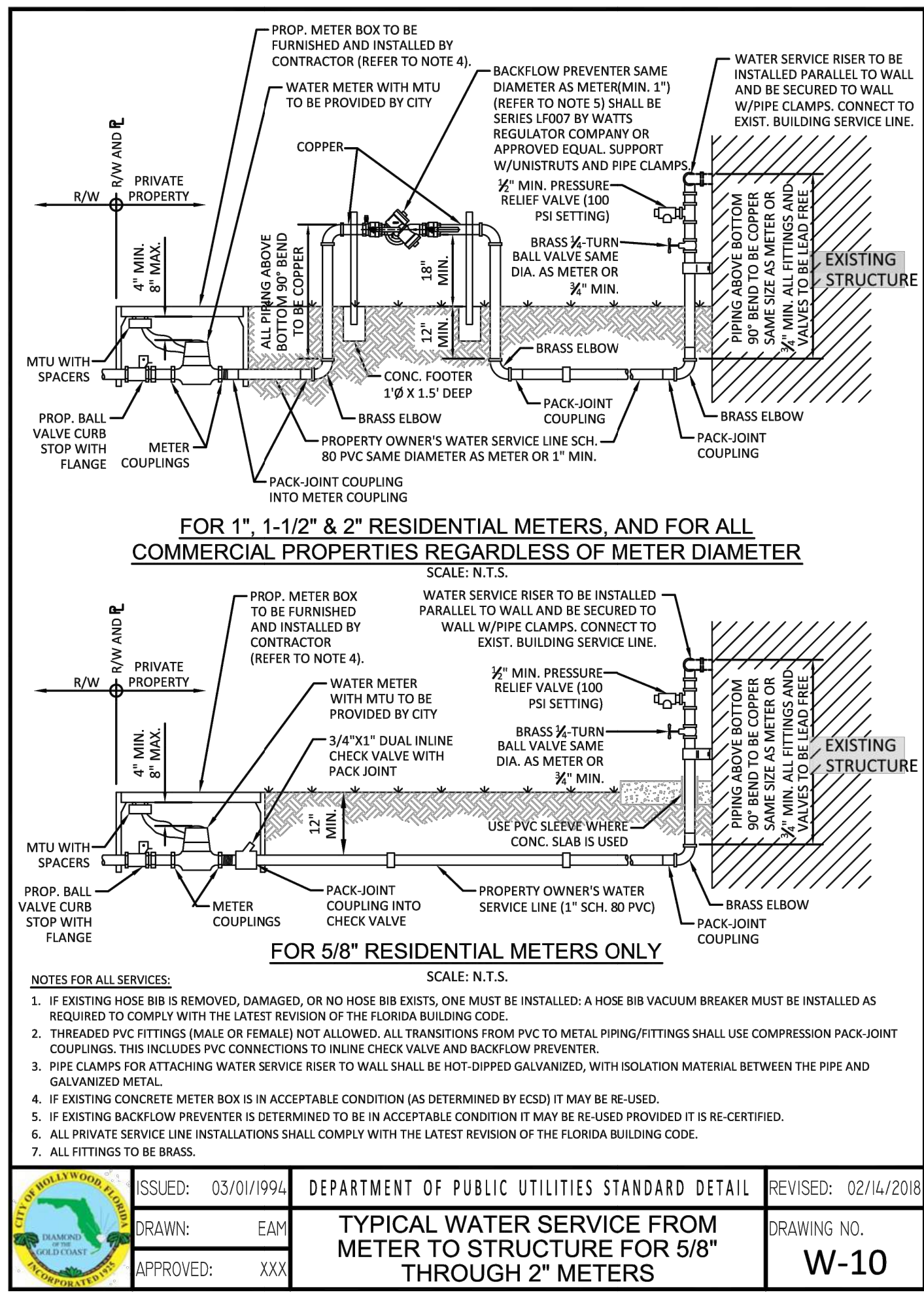


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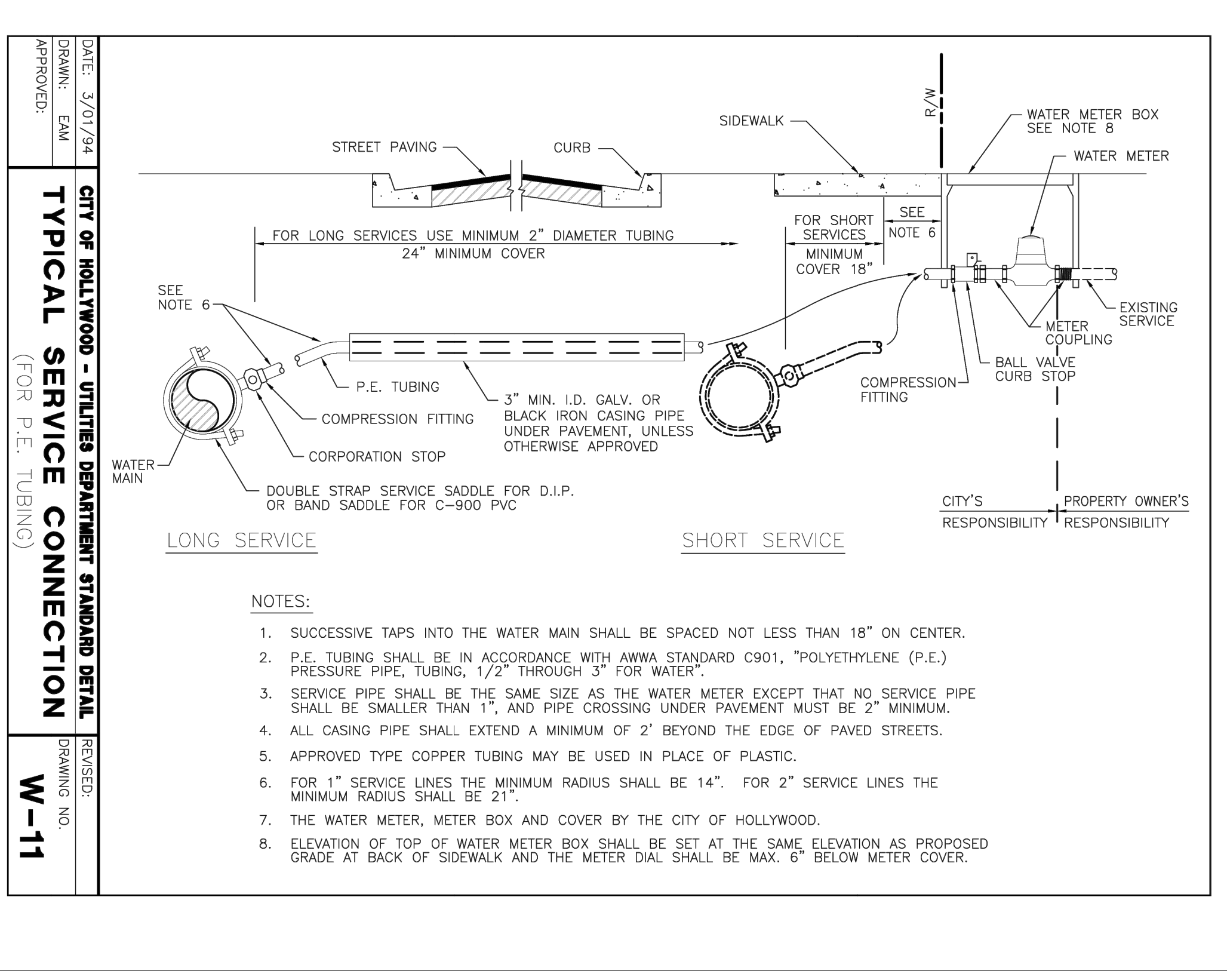
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UTILITY DETAILS

SHEET NO.
C08

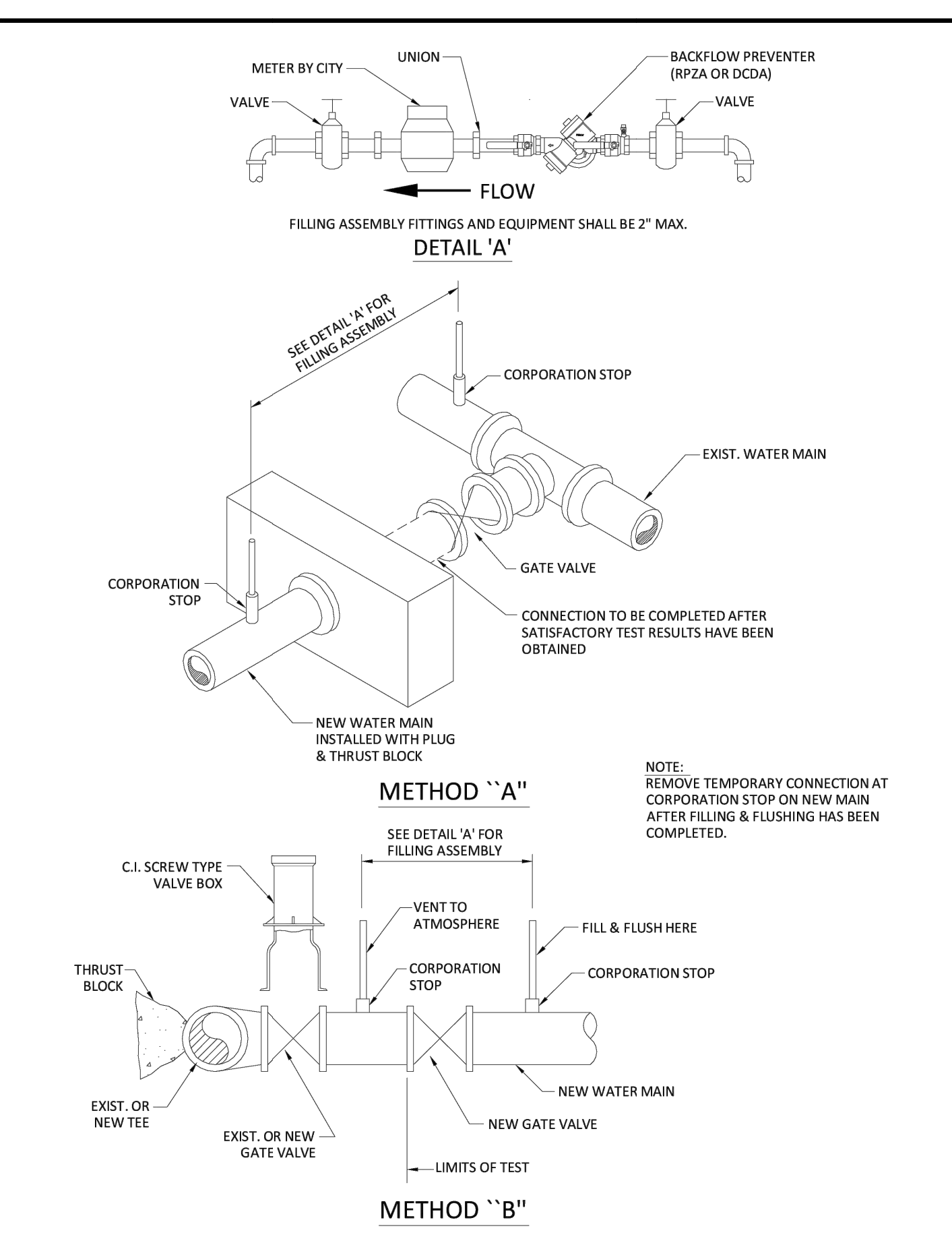
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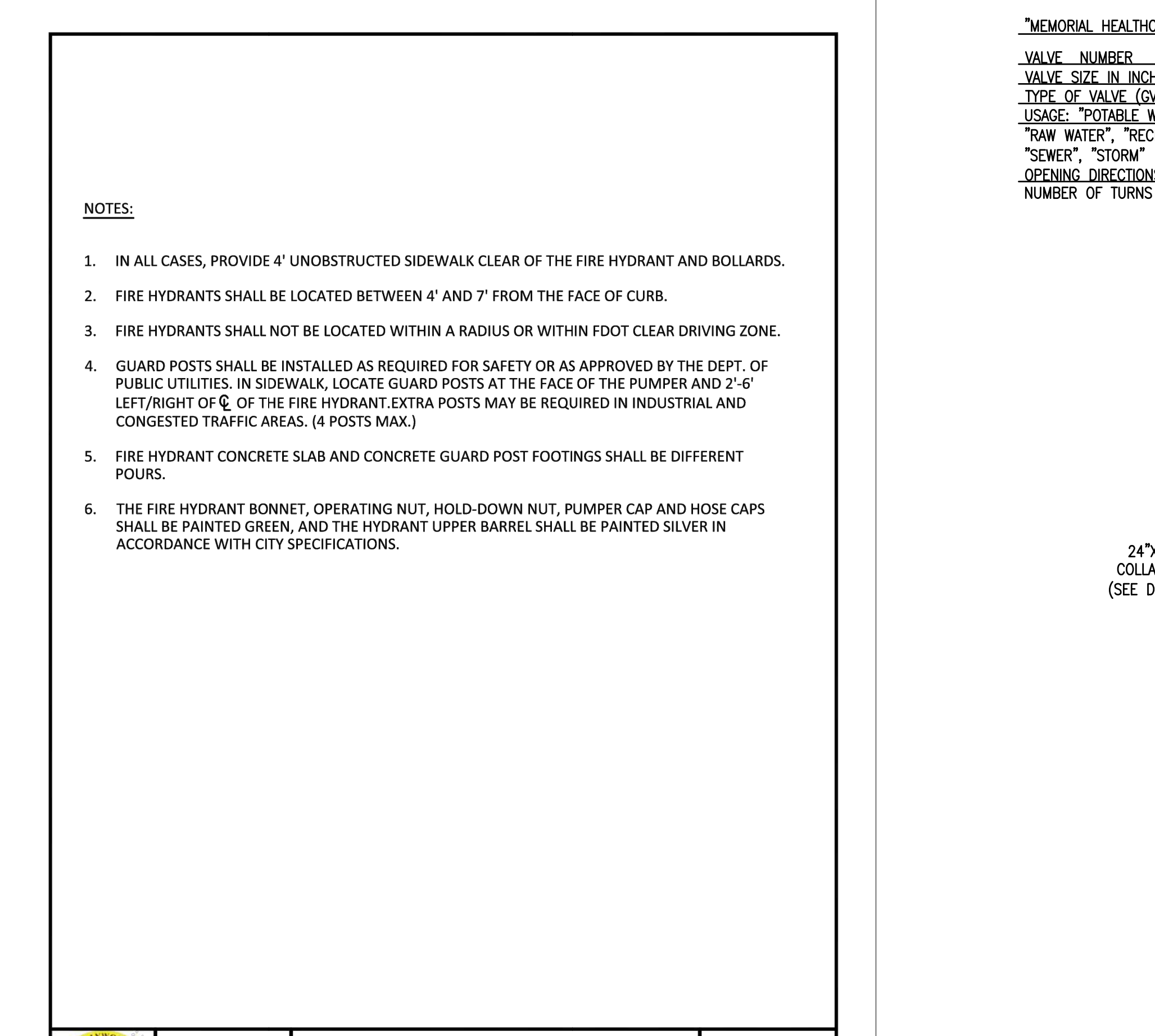
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 02/14/2018
DRAWN: EAM	TYPICAL WATER SERVICE FROM METER TO STRUCTURE FOR 5/8" THROUGH 2" METERS	DRAWING NO. W-10
APPROVED: XXX		



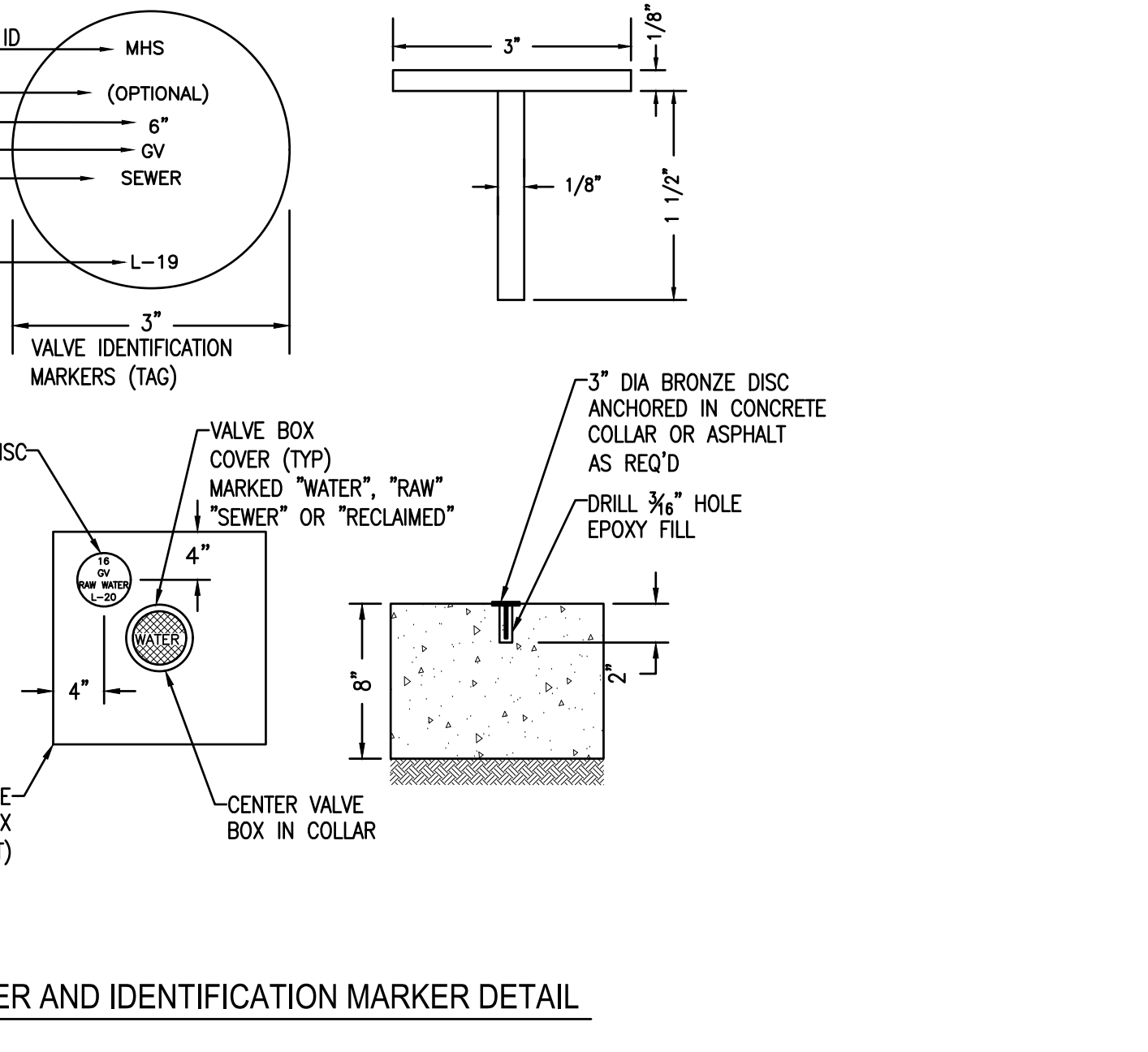
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 03/05/2019
DRAWN: EAM	TYPICAL FIRE HYDRANT INSTALLATION	DRAWING NO. W-13
APPROVED: XXX		



ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	FILLING AND FLUSHING DETAILS	DRAWING NO. W-15
APPROVED: XXX		



ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	TYPICAL FIRE HYDRANT NOTES	DRAWING NO. W-13.1
APPROVED: XXX		



ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 03/05/2019
DRAWN: EAM	TYPICAL FIRE HYDRANT INSTALLATION	DRAWING NO. W-13
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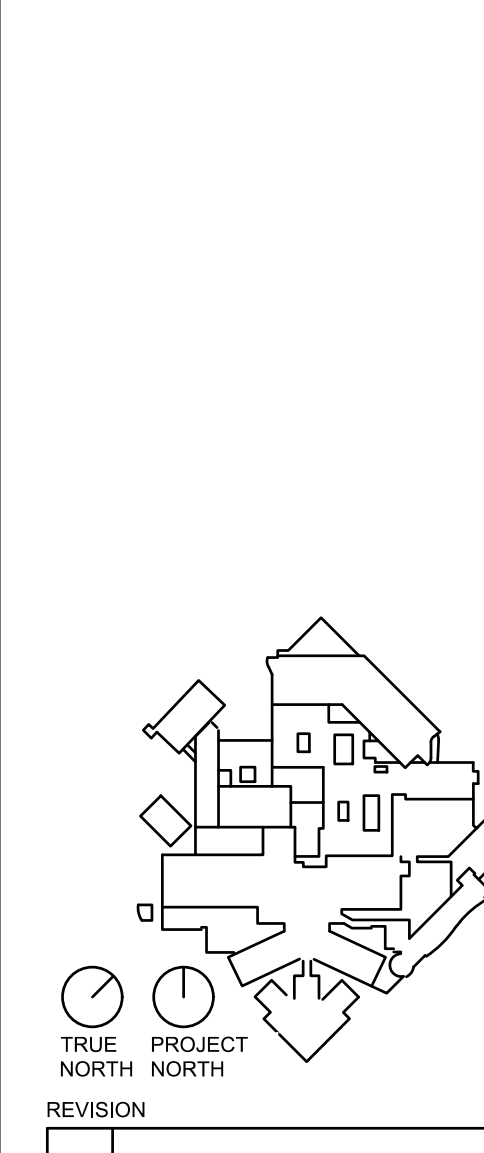
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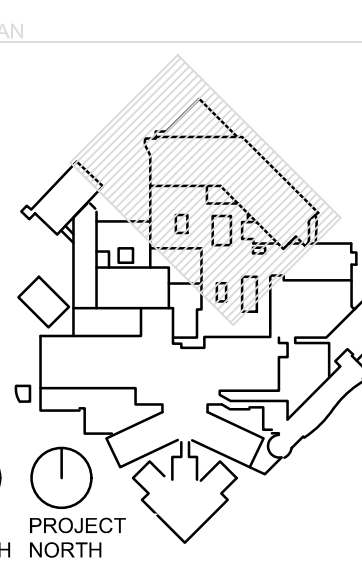
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UTILITY DETAILS

SHEET NO.
C09

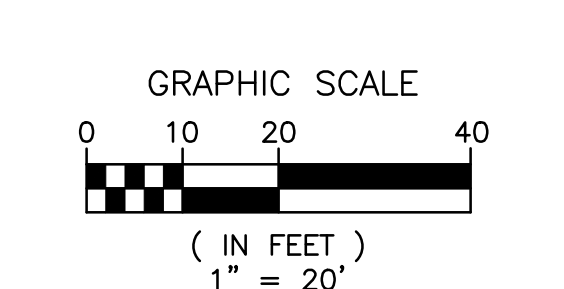
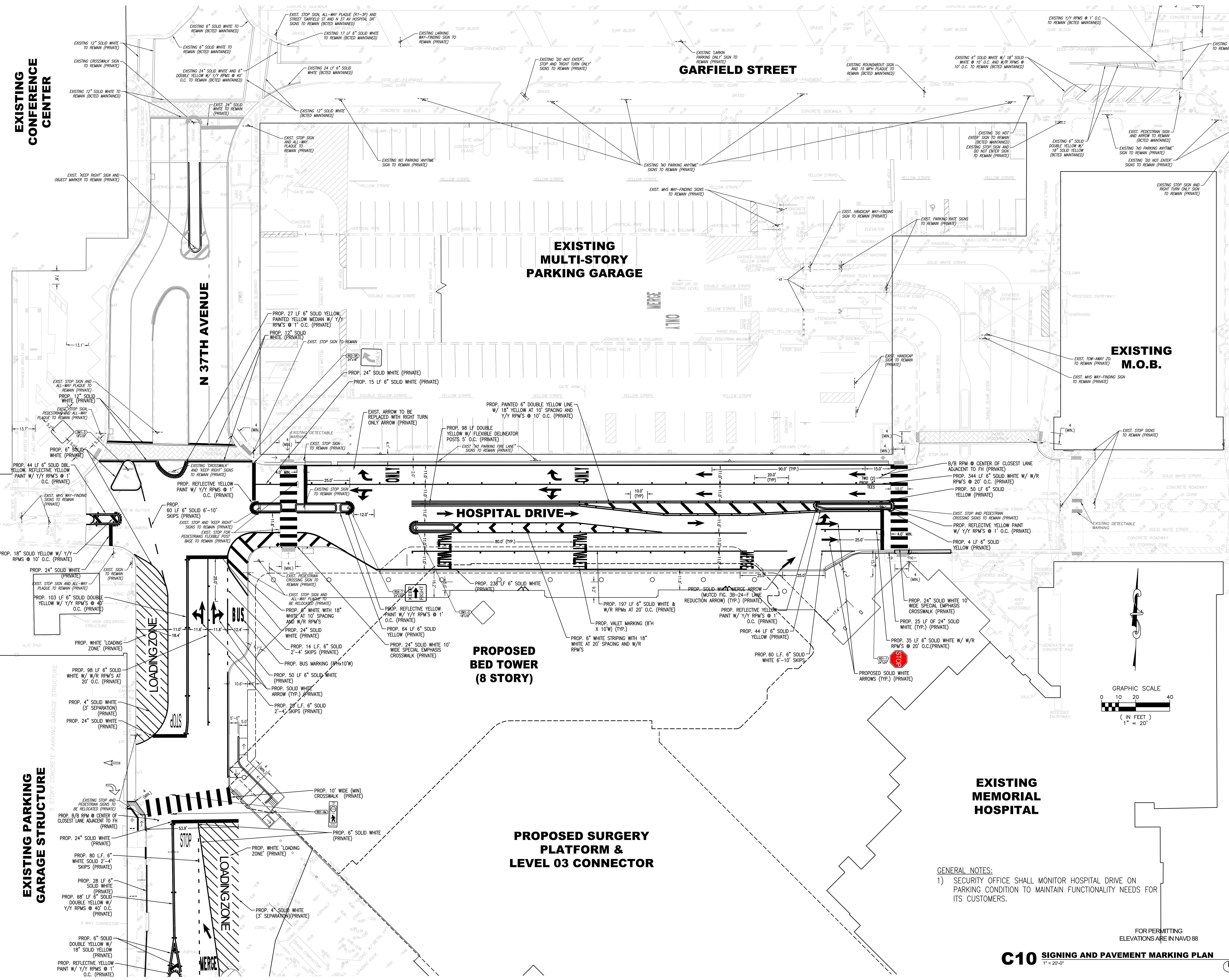
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ELEVATIONS ARE IN NAVD 88



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HKS PROJECT NUMBER
23459.000
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ISSUE
ISSUED FOR CONSTRUCTION
SHEET TITLE
SIGNING AND PAVEMENT MARKING PLAN

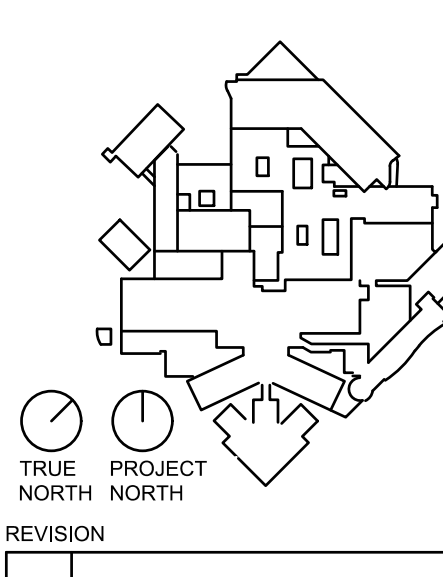


GENERAL NOTES:
1) SECURITY OFFICE SHALL MONITOR HOSPITAL DRIVE ON PARKING CONDITION TO MAINTAIN FUNCTIONALITY NEEDS FOR ITS CUSTOMERS.

FOR PERMITTING
ELEVATIONS ARE IN NAVD 88

C10 SIGNING AND PAVEMENT MARKING PLAN
1" = 20'-0"

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Broward County Traffic Engineering Division Communications Notes

To be placed within plan set (Revised: 10/13/2015)

"Communications Notes"

The agency responsible for maintenance of the traffic signals and related equipment is Broward County Traffic Engineering Division (BCTED). All system communications equipment, cabling and related material shall comply with Broward County's latest edition of the minimum standards as expressed in the "Standards and Specifications - Communication Infrastructure" document. Please refer to BCTED's Communications Policies and Procedures for additional information. Broward County Traffic Engineering Division will not accept any projects that do not meet these standards and specifications. If fiber optic pull boxes already exist at an intersection, no additional fiber optic pull boxes will need to be installed. For a copy of these standards refer to the Broward County web site at www.broward.org/traffic under publications.

If there are Copper Interconnect Cables within your project limits or within 1500 feet of your project limits, contact the Communications Manager at tccommunications@broward.org or 954-847-2745.

If there are Fiber Optic Cables within your project limits or within 1500 feet of your project limits contact the Communications Manager at tccommunications@broward.org or 954-847-2745.

If there are cellular communications within your project limits, contact the Communications Manager at tccommunications@broward.org or 954-847-2745.

All BCTED communications cables/conduit shall be located a minimum of 48 hours in advance.

Broward County Traffic Engineering Division
Procedure for Notification of Communication Disruption

Copper Interconnect Cable Notification Contact Person
When communications to an intersection must be disrupted by a Contractor to perform work, the Contractor shall provide two day advance notice in writing to the Broward County Traffic Engineering Division. This notification shall be conveyed via electronic mail (email) to the Traffic Signal Technician III at tccommunications@broward.org. Notification shall include contact person, telephone number, purpose, location and duration. The disruption shall last for no more than 3 consecutive business days. Where possible, the disruption shall be during off peak hours beginning at 9:00am and ending at 3:00pm.

Fiber Optic Cable Notification Contact Person
When communications to an intersection must be disrupted by a Contractor to perform work, the Contractor shall provide two day advance notice in writing to the Broward County Traffic Engineering Division. This notification shall be conveyed via electronic mail (email) to the Communications Manager at tccommunications@broward.org. Notification shall include contact person, telephone number, purpose, location and duration. The disruption shall last for no more than 3 consecutive business days. Where possible, the disruption shall be during off peak hours beginning at 9:00am and ending at 3:00pm.

Include the following in any notice of utility ownership or within a "Utility Owners/Contact Person" table:
Interconnect Communications Cables - (Robert Blount) Broward County Traffic Engineering Division (BCTED) 954-847-2745

W11-2 (30"x 30") & SUPPLEMENTAL (24"x12") SIGN ASSEMBLY

1. SCHOOL ZONE AND PEDESTRIAN SIGNS SHALL BE COMPRISED OF REFLECTIVE FLUORESCENT YELLOW-GREEN SHEETING. (SEE BCTED TECHNICAL POLICY MEMO #TPM-16-001 ON BCTED WEBSITE)

2. NOT FOR USE WITH RECTANGULAR RAPID FLASHING BEACONS

BROWARD COUNTY
PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

REVISIONS: 11-15-18 SCALE: NTS
DESIGN BY: YVES DANJOU, P.E.
DRAWN BY: STEPHON RAMOUTAR
CHECKED BY: ANDREW SEBO, P.E., PTOE

GUIDE TO USE THIS STANDARD:

- Calculate the Total Panel Area and the centroid "C" for an individual sign or a sign cluster.
- Determine the height "H" from the groundline for the individual sign or the cluster.
- Consult the Post Size Table and find the intersection point.
- Design the post and the foundation according to the required Post Size and Assembly Details.

Post Size Table

"H" Sign Assembly Height (ft) (measure from ground)	Total Panel Area (sq ft)
3	8
4	6.5
5	9
6	9.5
7	10
8	11
9	12
10	13
11	14
12	15
13	16
14	17
15	18
16	19
17	20
18	21
19	22
20	23

Sign Post with 3" x 7 ga. Square Anchor

Sign Post with Triangular Slip Base

GROUND SIGN ASSEMBLY DETAILS

BROWARD COUNTY
PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

REVISIONS: 03-21-2017 UPDATED POST SIZE
11-24-2020 ADDED POST SIZE NOTE
02-05-2021 UPDATED POST BASE HEIGHT

DESIGN BY: YVES DANJOU, P.E.
DRAWN BY: STEPHON RAMOUTAR
CHECKED BY: ANDREW SEBO, P.E., PTOE

PAVEMENT MARKINGS AND SIGNS DETAILS

REVISIONS

DATE	DESCRIPTION
11-24-2020	UPDATED NOTES
04-14-2021	UPDATED NOTES
05-06-2022	UPDATED NOTES

BROWARD COUNTY
PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

DESIGN BY: CARMELO CARATTOZZOLO, P.E.
DRAWN BY: STEPHON RAMOUTAR
CHECKED BY: CARMELO CARATTOZZOLO, P.E.

NOTES

- ALL PAVEMENT MARKINGS SHALL BE ALKYD BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED.
- ALL PAVEMENT MARKINGS ON PAVEMENT SYSTEMS SHALL BE 3M 360/281 SERIES TAPE OR EQUIVALENT AND APPLIED WITH PRO-KRENEER AS PER MANUFACTURER'S OPERATIONS.
- ALL PAVEMENT MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SIGNS, STANDARDS, AND POST SIGN STANDARDS".
- SEE FOOT INDEX NO. 708-001 FOR PLACEMENT OF RPM'S FOR BULLDOZE RPM TREATMENT. SEE LEGEND NO. 1.)
- RPM'S SHALL BE CLASS "B" OR EQUIVALENT, APPLIED WITH EPOXY OR BITUMINOUS ADHESIVE.
- FOOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.
- FOR RKE LINE DETAILS SEE FOOT INDEX NO. 711-002.
- EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING OR SAND BLASTING.
- ALL STOP LINES TO BE 4" BEHIND CROSSWALK OR SIDEWALK.
- PAVEMENT MARKING REFLECTIVITY SHALL BE UNIFORM ACROSS THE ENTIRE STRIPE AND SHALL HAVE A MINIMUM REFLECTIVITY READING OF 250 MILLICANDELES FOR WHITE AND 175 MILLICANDELES FOR YELLOW.
- ALL PRODUCTS MUST BE ON FOOT'S APPROVED PRODUCTS LIST (APL).
- CONDITIONAL CROSSWALK MARKINGS SHALL BE INSTALLED AT ALL CROSS STREETS OR COUNTY ROADS THAT ARE FOUR LANES OR GREATER.

LEGEND

YELLOW/YELLOW RPM DETAILS

MEDIAN RIDE PAINT DETAILS

PAINTED MEDIAN DETAILS

EDGE LINE DETAILS

TYPE 'M' SEPARATOR DETAILS

TYPE 'S' RMP DETAILS

TYPE 'A' RMP DETAILS

STREET NAME PLATE DETAILS

STOP SIGN

TOP SIGN NOTE

WHERE SIDE ROADS INTERSECT A MULTI-LANE STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 45 MPH OR HIGHER, THE MINIMUM SIZE OF THE STOP SIGNS FACING THE SIDE ROAD APPROACH, EVEN IF THE SIDE ROAD ONLY HAS ONE APPROACH LANE, SHALL BE 36"X36".

WHERE SIDE ROADS INTERSECT A MULTI-LANE (INCLUDING TURN LANE) STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 40 MPH OR LOWER, THE MINIMUM SIZE OF THE STOP SIGN FACING THE SIDE ROAD APPROACHES SHALL BE 30"X30".

REVISIONS

DATE	DESCRIPTION
02-28-2020	ADDED ISOMETRIC VIEW
02-05-2021	UPDATED POST BASE HEIGHT
06-22-2023	UPDATED SIGN POST NOTES

BROWARD COUNTY
PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

DESIGN BY: CARMELO CARATTOZZOLO, P.E.
DRAWN BY: STEPHON RAMOUTAR
CHECKED BY: CARMELO CARATTOZZOLO, P.E.

STOP SIGN AND STREET IDENTIFICATION ASSEMBLY TYPICAL DETAILS

REVISIONS

DATE	DESCRIPTION
02-28-2020	ADDED ISOMETRIC VIEW
02-05-2021	UPDATED POST BASE HEIGHT
06-22-2023	UPDATED SIGN POST NOTES

BROWARD COUNTY
PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

DESIGN BY: CARMELO CARATTOZZOLO, P.E.
DRAWN BY: STEPHON RAMOUTAR
CHECKED BY: CARMELO CARATTOZZOLO, P.E.

NOTES

- Dimensions and certain details for the parts used to assemble the slip base connections are intentionally not shown. Slip base connections are patented manufactured products that are in compliance with NCHRP 350 crash test criteria. Slip base connection details are only shown on this plan to illustrate how the parts are assembled. The complete assembly must be designed to withstand 150 mph Base Wind Speed per 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th edition and interims.
- For standard ground sign installation, see detail entitled "Ground Sign Assembly Details".

FOR PERMITTING
ELEVATIONS ARE IN NAVD 88

C11
NOT TO SCALE

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PRINT DATE: 15/02/2023 10:55:59 AM TEMPLATE VERSION: 21.03.20200181

ARCHITECT
HKS ARCHITECTS, INC.
2020 SALZEDO STREET, 4TH FLOOR
CORAL GABLES, FL 33134

INTERIOR DESIGNER
HKS ARCHITECTS
225 EAST ROBINSON ST, SUITE #405
ORLANDO, FL 32801

CIVIL & LANDSCAPE
CSA SOLUTIONS
1800 ELLER DRIVE, SUITE 600
FORT LAUDERDALE, FL 33316

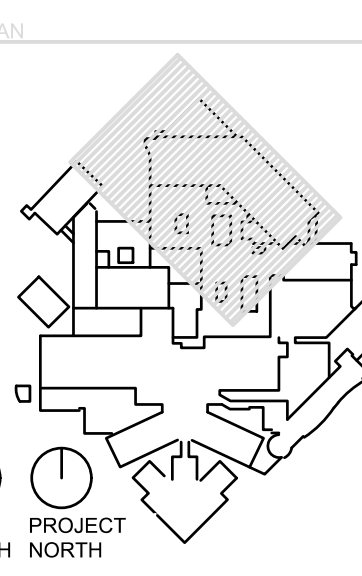
STRUCTURAL ENGINEER
GMS STRUCTURAL ENGINEERS
14335 COMMERCE WAY
MIAMI LAKES, FL 33016

MEP & FIRE PROTECTION
TLC ENGINEERING SOLUTIONS, INC.
800 FAIRWAY DRIVE SUITE 130
DEERFIELD BEACH, FL 33441

TELECOM & EQUIPMENT
SMITH SECHMAN REID, INC.
2996 SECOO DRIVE
NASHVILLE, TN 37204

OWNER
MEMORIAL HEALTHCARE SYSTEM
3501 JOHNSON STREET
HOLLYWOOD, FL 33021

Memorial Regional Hospital
SURGICAL & CRITICAL CARE TOWER EXPANSION
ENABLING PACKAGE



JAMES D. MESSICK, STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 70870.
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED
BY JAMES D. MESSICK ON THE DATE INDICATED HERE.
PRINTED COPIES OF THIS DOCUMENT ARE NOT
CONSIDERED SIGNED AND SEALED AND THE
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC
COPIES.

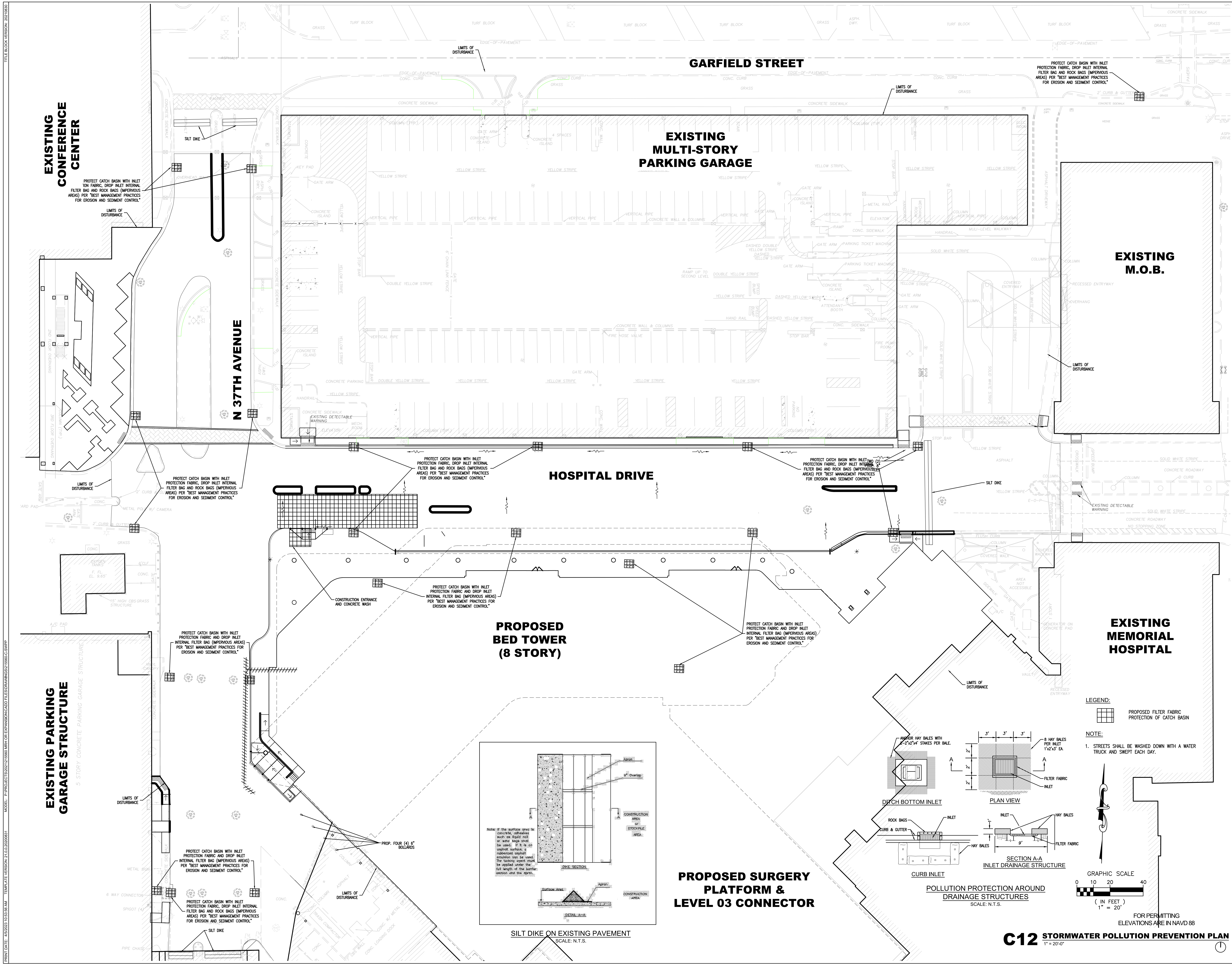
HKS PROJECT NUMBER
23459.000

DATE
FEBRUARY 17, 2025

ISSUE
ISSUED FOR CONSTRUCTION

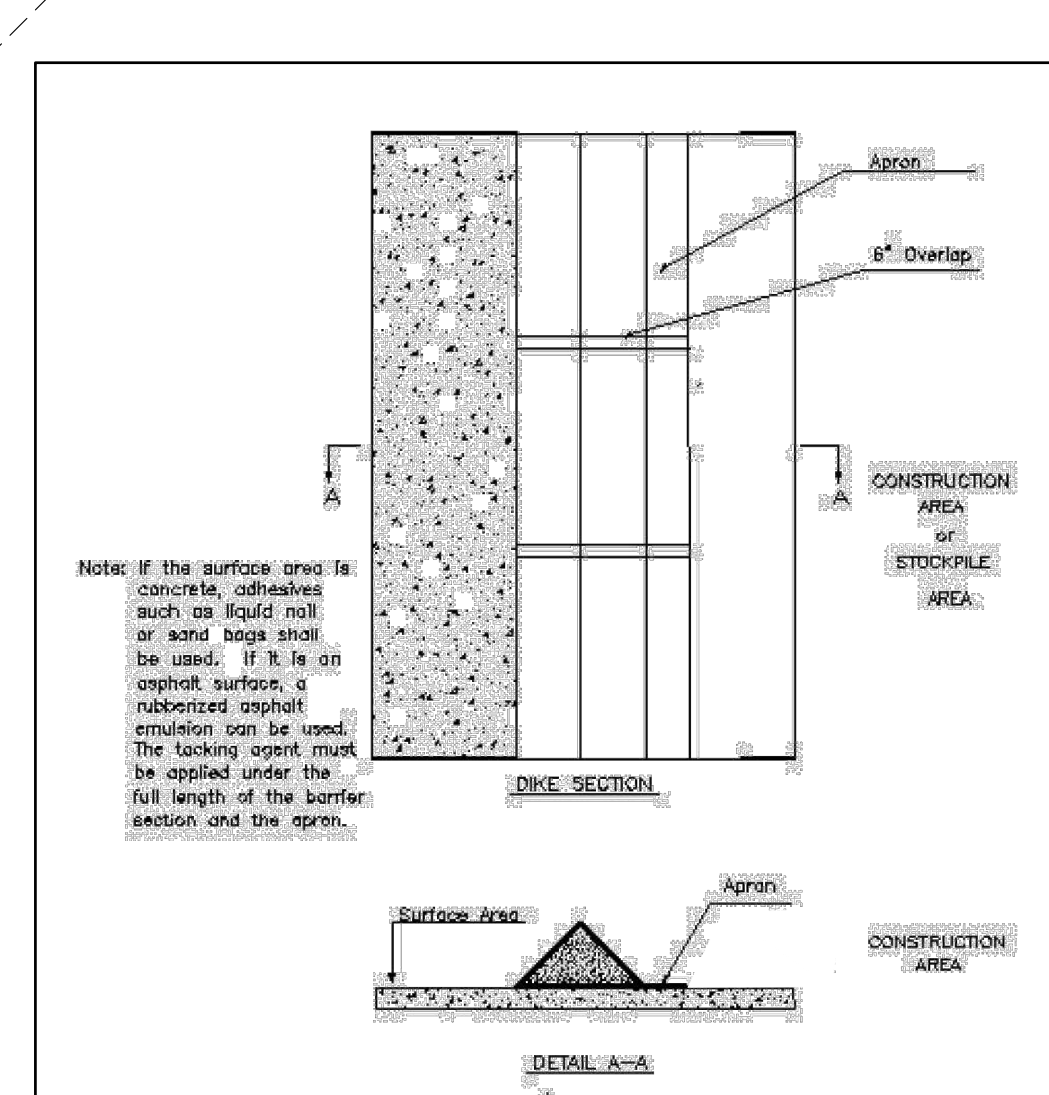
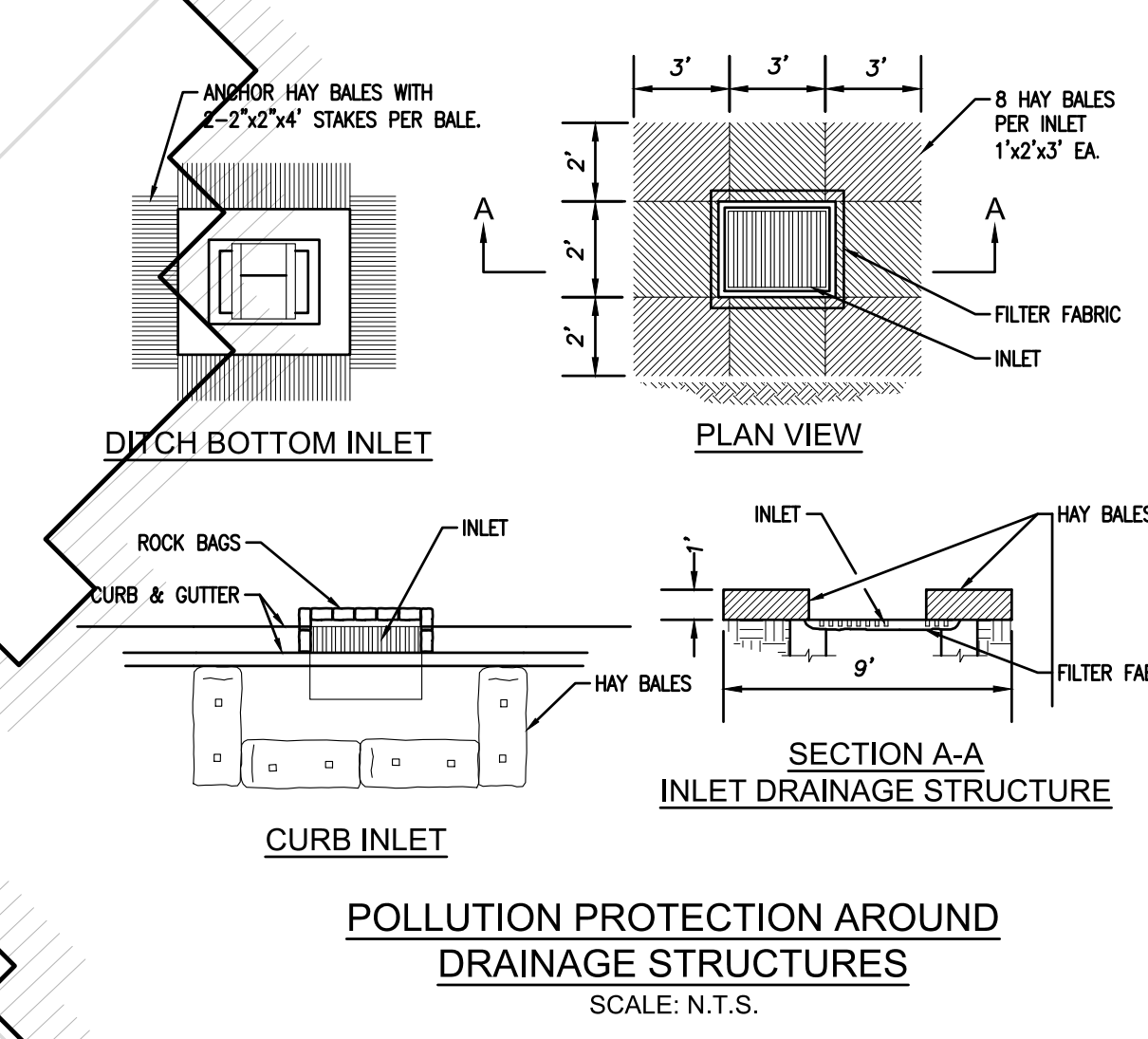
SHEET TITLE
STORMWATER POLLUTION PREVENTION PLAN

SHEET NO.
C12

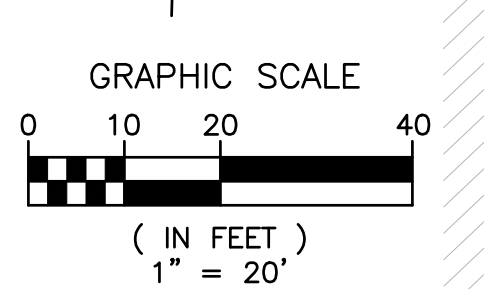


LEGEND:
[Symbol] PROPOSED FILTER FABRIC PROTECTION OF CATCH BASIN

NOTE:
1. STREETS SHALL BE WASHED DOWN WITH A WATER TRUCK AND SWEEPED EACH DAY.



C12 STORMWATER POLLUTION PREVENTION PLAN
1" = 20'-0"



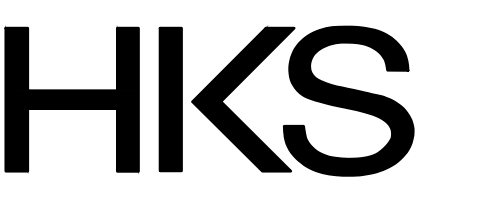
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PRINT DATE: 02/02/2025 03:59 AM TEMPLATE VERSION: 21.03.2020(81)

STORMWATER POLLUTION PREVENTION PLAN

SITE DESCRIPTION	GENERAL	HAZARDOUS PRODUCTS	HAZARDOUS PRODUCTS																																										
<p>PROJECT NAME AND LOCATION: MEMORIAL REGIONAL HOSPITAL – OPERATION ROOMS EXPANSION</p> <p>OWNER NAME AND ADDRESS: SOUTH BROWARD HOSPITAL DISTRICT D/B/A MEMORIAL HEALTHCARE SYSTEM 3501 JOHNSON ST. HOLLYWOOD, FL 33021</p> <p>DESCRIPTION: PROJECT PROPOSES IMPROVEMENTS TO PAVING, GRADING, AND DRAINAGE, PAVEMENT MARKING AND SIGNAGE, STORMWATER POLLUTION PREVENTION, AND EXISTING UTILITY RELOCATION.</p> <p>SOIL DISTURBING ACTIVITIES: SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING, INSTALLING DRAINAGE, UTILITY RELOCATION, ELECTRICAL LINES, SOD, CONCRETE AND PAVEMENT RESTORATION.</p> <p>RUNOFF CURVE NUMBERS:</p> <table border="1"><thead><tr><th></th><th>AREA</th></tr></thead><tbody><tr><td>1. PRE-CONSTRUCTION</td><td>N/A</td></tr><tr><td>2. DURING CONSTRUCTION</td><td>N/A</td></tr><tr><td>3. POST-CONSTRUCTION</td><td>N/A</td></tr></tbody></table> <p>SOILS: REFER TO GEOTECHNICAL REPORT</p> <p>SITE MAPS: REFER TO PLANS</p> <p>SITE AREA: 1. TOTAL AREA OWNED: ~3.55 ACRES 2. AREA TO BE DISTURBED: ~3.55 ACRES (PROJECT AREA)</p> <p>NAME OF RECEIVING WATERS: RUNOFF TO BE CONTAINED ONSITE</p>		AREA	1. PRE-CONSTRUCTION	N/A	2. DURING CONSTRUCTION	N/A	3. POST-CONSTRUCTION	N/A	<p>THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.</p> <p>SEQUENCE OF MAJOR ACTIVITIES:</p> <p>SEQUENCE OF MAJOR ACTIVITIES:</p> <ol style="list-style-type: none">INSTALL EROSION AND SEDIMENT CONTROL MEASURES.CLEAR AND GRUB SITE.CONTINUE WITH E&S CONTROL MEASURES.INSTALL DRAINAGE, RELOCATE UTILITIES AND ELECTRICAL LINES.CONTINUE WITH E&S CONTROL MEASURES.BACKFILL AND INSTALL SOD AND LANDSCAPING. RESTORE ASPHALT PAVEMENT AND CONCRETE.CONTINUE WITH E&S CONTROL MEASURES.REMOVE ACCUMULATED SEDIMENTS FROM EXISTING STORMWATER MANAGEMENT SYSTEM. <p>TIMING OF CONTROLS/MEASURES</p> <p>THE FILTER FABRIC AND HAY BALES WILL BE INSTALLED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED.</p> <p>ENDANGERED SPECIES AND CRITICAL HABITAT</p> <ol style="list-style-type: none">ARE THERE ENDANGERED SPECIES ON SITE? NONE KNOWN.ARE THERE CRITICAL HABITAT ON SITE? NONE KNOWN. <p>IF YES TO EITHER QUESTION, PLEASE EXPLAIN.</p> <p>CONTROLS</p> <p>IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE GRADING, DRAINAGE & EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE GRADING, DRAINAGE & EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE GRADING, DRAINAGE & EROSION CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.</p> <p>EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES (IF APPLICABLE):</p> <ol style="list-style-type: none">SYNTHETIC BALE BARRIER: SYNTHETIC BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF SYNTHETIC BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT. REFER TO EROSION CONTROL DETAILS FOR CONSTRUCTING THE SYNTHETIC BALE BARRIER. ALSO, REFER TO THE STORMWATER POLLUTION PREVENTION PLAN FOR PROPER LOCATION.FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. REFER TO THE EROSION CONTROL DETAILS FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.	<p>3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.</p> <p>4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL, AND THE AREA BELOW THE LEVEL UP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.</p> <p>5. STOOPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOOPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.</p> <p>6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL BE MINIMIZED.</p> <p>7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.</p> <p>8. DUST CONTROL: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL TREATMENT WITHIN 30 DAYS SHALL BE STABILIZED.</p> <p>9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.</p> <p>10. TEMPORARY GRASSING: THE SEEDED OR SEEDING AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.</p> <p>11. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSING AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.</p> <p>12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.</p> <p>13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.</p> <p>14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION SHALL, AS A MINIMUM, BE SEED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION.</p> <p>STRUCTURAL PRACTICES (IF APPLICABLE):</p> <ol style="list-style-type: none">TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN A DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE: A. BLOCK & GRAVEL SEDIMENT FILTER – THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. B. GRAVEL SEDIMENT TRAP – THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS. C. DROP INLET SEDIMENT TRAP – THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & SYNTHETIC BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS, THE PROPOSED STORMWATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 67 CUBIC YARDS OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. THE VOLUME OF THE BASIN AT CLEAN OUT SHALL BE 22 CUBIC YARDS PER ACRE.	<p>THE 67 CUBIC YARDS OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.</p> <p>OTHER CONTROLS</p> <p>WASTE DISPOSAL (IF APPLICABLE):</p> <p>WASTE MATERIALS</p> <p>ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.</p> <p>HAZARDOUS WASTE</p> <p>ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.</p> <p>SANITARY WASTE</p> <p>ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.</p> <p>OFFSITE VEHICLE TRACKING</p> <p>A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP/AULIN.</p> <p>INVENTORY FOR POLLUTION PREVENTION PLAN</p> <p>THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:</p> <table border="1"><tbody><tr><td><input checked="" type="checkbox"/> Concrete</td><td><input checked="" type="checkbox"/> Fertilizers</td><td><input checked="" type="checkbox"/> Wood</td></tr><tr><td><input checked="" type="checkbox"/> Asphalt</td><td><input checked="" type="checkbox"/> Petroleum Based Products</td><td><input checked="" type="checkbox"/> Masonry Blocks</td></tr><tr><td><input checked="" type="checkbox"/> Tar</td><td><input checked="" type="checkbox"/> Cleaning Solvents</td><td><input checked="" type="checkbox"/> Roofing Materials</td></tr><tr><td><input checked="" type="checkbox"/> Detergents</td><td><input checked="" type="checkbox"/> Paints</td><td><input checked="" type="checkbox"/> Metal Studs</td></tr><tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></tbody></table> <p>MATERIAL MANAGEMENT PRACTICES</p> <p>THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.</p> <p>GOOD HOUSEKEEPING</p> <p>THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.</p> <ul style="list-style-type: none">AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL ORIGINAL MANUFACTURER'S LABEL.SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL. <p>SPILL PREVENTION</p> <p>HAZARDOUS PRODUCTS</p> <p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <ul style="list-style-type: none">PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED. <p>PRODUCT SPECIFIC PRACTICES</p> <p>THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS</p> <p>ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>FERTILIZERS</p> <p>FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p>PAINTS</p> <p>ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p>CONCRETE TRUCKS</p> <p>CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.</p> <p>SPILL CONTROL PRACTICES</p> <p>IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:</p> <p>MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.</p> <p>MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND, SANDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p> <p>MAINTENANCE/INSPECTION PROCEDURES</p> <p>EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES</p> <p>THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.</p> <p>NO MORE THAN 5 ACRES OF THE SITE WILL BE DENUED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.</p> <p>ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.</p> <p>ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.</p> <p>BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.</p>	<input checked="" type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Fertilizers	<input checked="" type="checkbox"/> Wood	<input checked="" type="checkbox"/> Asphalt	<input checked="" type="checkbox"/> Petroleum Based Products	<input checked="" type="checkbox"/> Masonry Blocks	<input checked="" type="checkbox"/> Tar	<input checked="" type="checkbox"/> Cleaning Solvents	<input checked="" type="checkbox"/> Roofing Materials	<input checked="" type="checkbox"/> Detergents	<input checked="" type="checkbox"/> Paints	<input checked="" type="checkbox"/> Metal Studs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.</p> <p>* THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.</p> <p>* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.</p> <p>* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.</p> <p>* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED.</p> <p>THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORMWATER MANAGEMENT PLANS.</p> <p>THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.</p> <p>* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILING OUT THE INSPECTION AND MAINTENANCE REPORT.</p> <p>* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.</p> <p>NON-STORMWATER DISCHARGES</p> <p>IT IS EXPECTED THAT THE FOLLOWING NON-STORMWATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:</p> <ul style="list-style-type: none">WATER FROM WATER LINE FLUSHINGPAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION). <p>ALL NON-STORMWATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.</p> <p>CONTRACTOR'S CERTIFICATION</p> <p>I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.</p> <table border="1"><thead><tr><th>RESPONSIBLE FOR/DUTIES</th><th>GENERAL CONTRACTOR</th><th>SUB-CONTRACTOR</th><th>SUB-CONTRACTOR</th><th>SUB-CONTRACTOR</th><th>SUB-CONTRACTOR</th></tr></thead><tbody><tr><td>BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>SIGNATURE</td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>	RESPONSIBLE FOR/DUTIES	GENERAL CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS						SIGNATURE					
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C13 STORMWATER POLLUTION PREVENTION PLAN NOTES & SPECIFICATIONS



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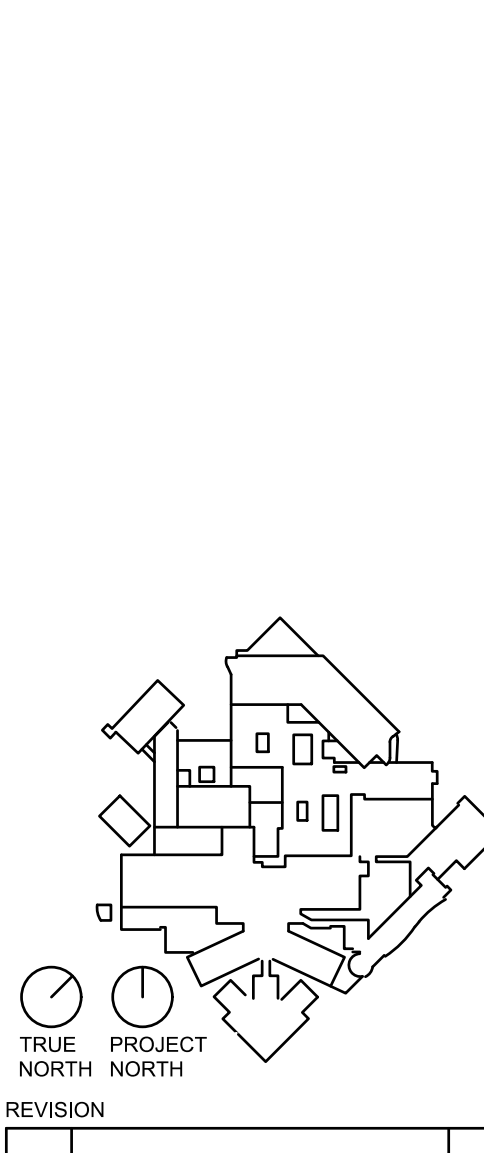
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