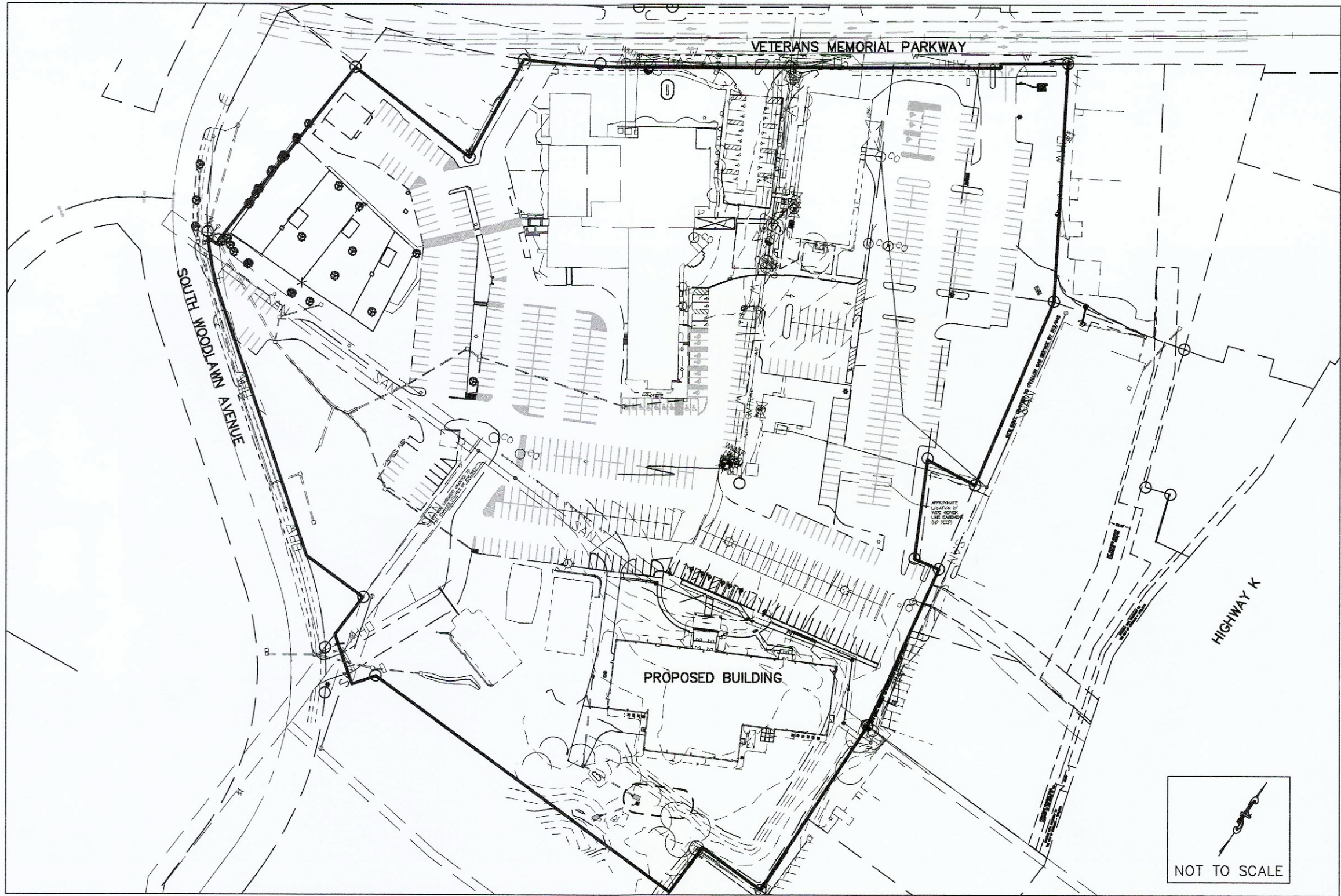
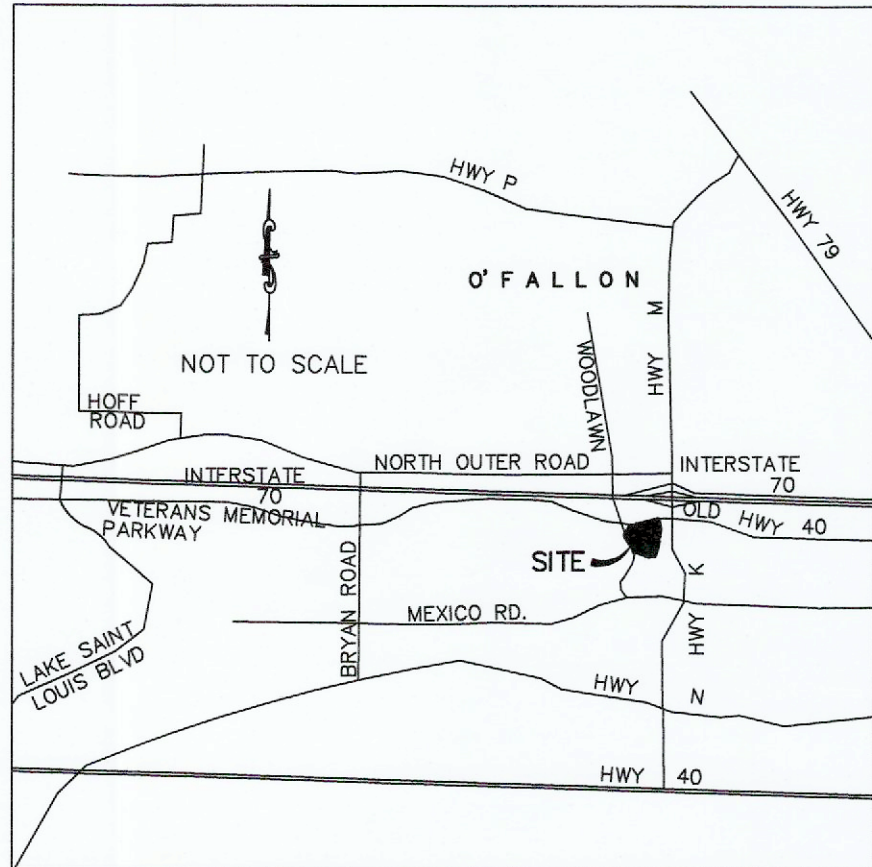




Plan View



Location Map

Drawing Index

- COVER SHEET
- CONSTRUCTION NOTES
- DEMOLITION PLAN
- SITE PLAN
- GRADING PLAN
- DETENTION BASIN DETAILS
- PRE-DEVELOPED DRAINAGE AREA MAP
- POST-DEVELOPED DRAINAGE AREA MAP
- STORM WATER POLLUTION PREVENTION PLAN
- SEDIMENT AND EROSION CONTROL DETAILS
- PROFILES/DETAILS
- WATER QUALITY DETAILS

VEGETATION ESTABLISHMENT For Urban Development Sites APPENDIX A	
SEEDING RATES:	
PERMANENT:	
Tall Fescue	150 lbs./ac.
Smooth Brome	100 lbs./ac.
Combined	Fescue @ 50 lbs./ac. AND Brome @ 50 lbs./ac.
TEMPORARY:	
Wheat or Rye	150 lbs./ac. (3.5 lbs. per 1,000 s.f.)
Oats	120 lbs./ac. (2.75 lbs. per 1,000 s.f.)
SEEDING PERIODS:	
Fescue or Brome	March 1 to June 1
	August 1 to October 1
Wheat or Rye	March 15 to November 1
Oats	March 15 to September 15
MULCH RATES:	
100 lbs. per 1000 sq. ft. (4,356 lbs. per ac.)	
FERTILIZER RATES:	
Nitrogen	30 lbs./ac.
Phosphate	30 lbs./ac.
Potassium	30 lbs./ac.
Lime	600 lbs./ac. ENM*
* ENM = effective neutralizing material as per State evaluation of quarried rock.	

Fire Protection District Notes:

- EACH FIRE HYDRANT SHALL NOT HAVE LESS THAN TWO 2-1/2 INCH OUTLETS AND ONE 4-1/2 INCH OUTLET, A 5-1/4 INCH VALVE, A 6 INCH BARREL AND SHALL BE OF THE BREAKAWAY DESIGN, FROST FREE WITH CHAIN, LEFT HAND OPEN DESIGN AND HAVE NATIONAL STANDARD THREADS.
- FIRE HYDRANT SHALL BE PROVIDED WITH A CONTROL VALVE IN THE HYDRANT CONNECTION SUCH THAT THE HYDRANT CAN BE REMOVED FROM SERVICE WITHOUT SHUTTING OFF WATER SUPPLY TO OTHER FIRE HYDRANTS.
- IN SETTING HYDRANTS, DUE REGARD SHALL BE GIVEN TO FINAL GRADE LINE. THE CENTER OF A HOSE NOZZLE OUTLET SHALL NOT BE LESS THAN (18) INCHES ABOVE GRADE AND THE OUTLETS MUST FACE THE STREET OR ACCESS DRIVE.
- THERE SHALL BE NO OBSTRUCTION, I.E. PLANTING, BUSHES, TREES, SIGNS, LIGHT STANDARDS, MAILBOXES, ETC. WITHIN SIX (6) FEET OF ANY FIRE HYDRANT, AND/OR FIRE DEPARTMENT CONNECTION TO AN AUTOMATIC SPRINKLER SYSTEM.
- A FIRE HYDRANT IS REQUIRED TO BE WITHIN 150 FEET OF A FIRE DEPARTMENT CONNECTION TO AN AUTOMATIC FIRE SUPPRESSION SYSTEM.
- ALL TEES, PLUGS, BENDS AND HYDRANT BRANCHES SHALL BE RESTRAINED AGAINST MOVEMENT IN ACCORDANCE WITH SECTION 8-6 OF THE NFPA 24.
- THE FLUSHING AND TESTING OF THE UNDERGROUND PIPING, ETC. FOR PRIVATE SERVICE MAINS SHALL COMPLY WITH CHAPTER 9 OF NFPA 24 AND SHALL BE WITNESSED BY A REPRESENTATIVE FROM THE FIRE DISTRICT.
- FIRE DEPARTMENT CONNECTION SHALL BE ACCESSIBLE AND INSTALLED ON ACCORDANCE TO SECTION 912 OF THE 2021 I.F.C.

Benchmarks Project

REFERENCE BENCHMARK: RM 59 - ELEVATION 526.36 (USGS)
CHISELED SQUARE ON THE EAST END OF ASPHALT STREET, AT THE SOUTHEAST CORNER OF PLACKMEIER DRIVE AND ERNST PLACE.

Site

SITE BENCHMARK: ELEVATION - 577.41 (USGS) OLD IRON ROD AT THE SOUTHEAST CORNER OF SUBJECT PROPERTY.

DNR PERMIT INFO:

A CURRENT DNR LAND DISTURBANCE PERMIT HAS BEEN ISSUED FOR THIS SITE UNDER MOA23036 ISSUED 12-6-2022 WHICH EXPIRES 2-7-2027

* City of O'Fallon Construction work hours per City Ordinance 3429 as shown in section 500.420 of the Municipal Code of the City of O'Fallon are as follows:

October 1 through May 31
7:00 A.M. To 7:00 P.M. Monday Through Sunday
June 1 Through September 30
6:00 A.M. To 8:00 P.M. Monday Through Friday
7:00 A.M. to 8:00 P.M. Saturday and Sunday

* The area of this phase of development is 2.26 acres.

The area of land disturbance is 2.26 acres.

Number of proposed lots is 1

Building setback information. Front 25'

Side 0'

Rear 0' (10' if abutting residential)

* The estimated sanitary flow in gallons per day is 2,730 GPD

City approval of any construction site plans does not mean that any building can be constructed on the lots without meeting the building setbacks as required by the zoning codes. All installations and construction shall conform to the approved engineering drawings. However, if the developer chooses to make minor modifications in design and/or specifications during construction, they shall make such changes at their own risk, without any assurance that the City Engineer will approve the completed installation or construction. It shall be the responsibility of the developer to notify the City Engineer of any changes from the approved drawings. The developer may be required to correct the installed improvement so as to conform to the approved engineering drawings. The developer may request a letter from the Construction Inspection Division regarding any field changes approved by the City Inspector. Lighting values will be reviewed on site prior to the final occupancy inspection.

A SET OF AS-BUILT PLANS FOR FIRST BAPTIST CHURCH OF O'FALLON - MULTIPURPOSE BUILDING

A TRACT OF LAND BEING PART OF U.S. SURVEY 55
TOWNSHIP 47 NORTH, RANGE 3 EAST
OF THE FIFTH PRINCIPAL MERIDIAN
CITY OF O'FALLON
ST. CHARLES COUNTY, MISSOURI

Conditions of Approval From Planning and Zoning

- Provide a photometric lighting plan.
- Provide a landscaping plan.
- Verify the height of the proposed buildings.
- Shorten the drop off lane island to allow for turning movements from adjacent parking spaces.
- Vacate the existing water line easements over the line that will be private.
- Staff needs to evaluate the lateral location at 1001 Hwy K to determine if additional manholes should be shifted.
- Verify depth of new and existing sanitary lines for foundation zone of influence.
- Provide a new easement over the sanitary sewer relocation.

Utility Contacts

Sanitary Sewer
City of O'Fallon
100 N. Main St.
O'Fallon, MO 63366
Contact: 636-281-2858

Electric
Ameren UE
200 Callahan road
Wentzville, MO 63385
636-639-8312

Water
City of O'Fallon
100 N. Main St.
O'Fallon, MO 63366
Contact: 636-281-2858

Telephone
Centurylink
1151 Century Tel Dr.
Wentzville, MO 63385
636-332-7261

Gas
Spire Gas Company
6400 Graham Road
St. Louis, MO 63134
314-522-2297

Charter Communications
941 Charter Commons
Town & Country, MO 63017
888-438-2427

Fire Department
O'Fallon Fire Protection District
119 E. Elm St.
O'Fallon, MO 63366
636-272-3493

Developer

FIRST BAPTIST CHURCH OF O'FALLON
8750 VETERANS MEMORIAL PARKWAY
O'FALLON, MO 63366

Legend

600.00	EXISTING LABELS	EXIST. SINGLE CURB INLET
600.00	PROPOSED LABELS	EXIST. AREA INLET
CI	SINGLE CURB INLET	PROPOSED SINGLE CURB INLET
DCI	DOUBLE CURB INLET	
AI	AREA INLET	
DAI	DOUBLE AREA INLET	
GI	GRATE INLET	
DGI	DOUBLE GRATE INLET	
MH	MANHOLE	
FE	FLARED END SECTION	
EP	END PIPE	
CP	CONCRETE PIPE	
RCP	REINFORCED CONCRETE PIPE	
CMP	CORRUGATED METAL PIPE	
CPP	CORRUGATED PLASTIC PIPE	
PVC	POLY VINYL CHLORIDE (PLASTIC)	
CO	CLEAN OUT	
.....	SLOPE LIMITS	
STM	DRAINAGE SWALE	
SAN	EXISTING STORM SEWER	
SAV	EXISTING SANITARY SEWER	
W	EXISTING WATER LINE	
FO	EXISTING FIBER OPTIC LINE	
GAS	EXISTING GAS LINE	
UGE	EXISTING UNDERGROUND ELECTRIC	
OHW	EXISTING OVERHEAD ELECTRIC	
CTV	EXISTING CABLE TV LINE	
T	EXISTING TELEPHONE LINE	
---	PROPOSED STORM SEWER	
---	PROPOSED SANITARY SEWER	
-X-X-	FENCE LINE	
---	SAWCUT LINE	

AS-BUILT PUBLIC UTILITY FINAL MEASUREMENTS

THE FOLLOWING UTILITIES HAVE BEEN LOCATED AND MEASURED AND THE RESULTS OF THOSE MEASUREMENTS ARE SHOWN ON THIS SET OF FINAL MEASUREMENT PLANS:

- STORM SEWERS, STORM SEWER LENGTHS, STORM SEWER PIPE SIZES, STORM SEWER FLOWLINES AND DEPTHS OF STORM SEWER STRUCTURES.
- SANITARY SEWERS, SANITARY SEWER LENGTHS, SANITARY SEWER PIPE SIZES, SANITARY SEWER FLOWLINES AND DEPTHS OF SANITARY SEWER STRUCTURES.
- FIRE HYDRANTS
- WATER VALVES

ALL PUBLIC UTILITIES SHOWN HEREON AS BEING AS-BUILT ARE LOCATED WITHIN DESIGNATED EXISTING OR PROPOSED EASEMENTS.

BAX ENGINEERING COMPANY, INC.
MARK E. COLLINS
MISSOURI PROFESSIONAL LAND SURVEYOR #2006000173



CITY OF O'FALLON
COMMUNITY DEVELOPMENT DEPARTMENT
ACCEPTED FOR CONSTRUCTION
BY: Ryan Rockwell DATE 01/16/2025
PROFESSIONAL ENGINEER'S SEAL
INDICATES RESPONSIBILITY FOR DESIGN

Development Notes:

- THIS PROPERTY IS REFERENCED AS THE FOLLOWING PARCEL I.D. NUMBERS OF THE ST. CHARLES COUNTY ASSESSOR'S OFFICE:
PARCEL ID: 2-0141-0055-00-0023.2111000
PARCEL ID: 2-0141-4274-00-0003.0000000
PARCEL ID: 2-0141-6812-00-0002.1000000
PARCEL ID: 2-0570-S029-00-0035.0000000
- EXISTING ZONING: C-2 GENERAL BUSINESS DISTRICT, CITY OF O'FALLON
- SITE ADDRESS: 8750 VETERANS MEMORIAL PARKWAY
O'FALLON, MO 63366
- PROPOSED USE: CHURCH
- OWNER: FIRST BAPTIST CHURCH OF O'FALLON
8750 VETERANS MEMORIAL PARKWAY
O'FALLON, MO 63366
- BUILDING SETBACKS:
FRONT YARD = 25 FEET
SIDE YARD = 0 FEET
REAR YARD = 0 FEET OR 10 FEET ABUTTING RESIDENTIAL DISTRICT
MAXIMUM HEIGHT = 50 FEET
- PARKING REQUIREMENTS:
CHURCH = 1 SPACE PER 3 SEATS OR 6 FEET OF BENCH LENGTH
OFFICE = 1 SPACE PER 300 SQ. FT. FLOOR AREA
ELEMENTARY SCHOOL = 2 SPACES PER CLASSROOM + 1 SPACE PER 2 FACULTY/STAFF OR 1 SPACE PER 5 SEATS
DAYCARE = 1 SPACE PER 6 PUPILS + 1 SPACE PER EMPLOYEE (BASED UPON THE MAXIMUM NUMBER OF PUPILS FOR WHICH THE FACILITY IS LICENSED BY THE STATE OF MISSOURI)
AUDITORIUM = 1 SPACE PER 3 SEATS OR 6 FEET OF BENCH LENGTH
EX. MAIN BUILDING (WEST): TOTAL PARKING REQUIRED = 69 SPACES
EX. CHURCH = 650/3 SEATS X 1 SPACE = 217 SPACES (SUNDAY PARKING REQUIREMENT ONLY)
EX. ELEMENTARY SCHOOL = (7 CLASSROOMS X 2 SPACES) + (12/2 FACULTY/STAFF X 1 SPACE) = 20 SPACES, OR
(7 CLASSROOMS X 20 SEATS)/5 SEATS X 1 SPACE = 28 SPACES
EX. DAYCARE = (125/6 PUPILS X 1 SPACE) + (20 EMPLOYEES X 1 SPACE) = 41 SPACES
EX. BUILDING (EAST): TOTAL PARKING REQUIRED = 65 SPACES
EX. OFFICE = 4,500/300 SQ. FT. X 1 SPACE = 15 SPACES
EX. AUDITORIUM = 150/3 SEATS X 1 SPACE = 50 SPACES
EX. MISSIONARY GUEST HOUSE (SOUTH): TOTAL PARKING REQUIRED = 2 SPACES
EX. SINGLE FAMILY DWELLING = 1 DWELLING UNIT X 2 SPACES = 2 SPACES
PROPOSED BUILDING: TOTAL PARKING REQUIRED = 182 SPACES
ELEMENTARY SCHOOL = (7 CLASSROOMS X 2 SPACES) + (12/2 FACULTY/STAFF X 1 SPACE) = 20 SPACES, OR
(7 CLASSROOMS X 20 SEATS)/5 SEATS X 1 SPACE = 28 SPACES
OFFICE = 7,852/300 SQ. FT. X 1 SPACE = 27 SPACES
AUDITORIUM = 380/3 SEATS X 1 SPACE = 127 SPACES
SUNDAY REQUIRED PARKING SPACES = 217 SPACES
SUNDAY PROVIDED PARKING SPACES = 579 SPACES
MONDAY-SATURDAY REQUIRED PARKING SPACES = 318 SPACES
MONDAY-SATURDAY PROVIDED PARKING SPACES = 598 EX. SPACES - 19 SPACES (NET LOSS) = 579 SPACES
- SITE COVERAGE:
SITE = 676,487 SQ. FT. (15.53 ACRES)
EXISTING BUILDING = 54,444 SQ. FT. = 8%
PROPOSED BUILDING = 26,801 SQ. FT. = 4%
PAVEMENT = 325,784 SQ. FT. = 48%
GREENSPACE = 269,458 SQ. FT. = 40%
- BASIS OF BEARING ADOPTED FROM A SURVEY BY LANDMARK SURVEYING AND ENGINEERING DATED 08-19-94.
- TO DETERMINE THE LOCATION OF FLOOD DESIGNATIONS AND BOUNDARIES, WE DETERMINED THE HORIZONTAL LOCATION OF THIS TRACT OF LAND BY SCALING THE FOLLOWING FLOOD INSURANCE RATE MAP (FIRM): ST. CHARLES COUNTY, MISSOURI AND INCORPORATED AREAS, MAP NUMBER 29183C0237G, WITH AN EFFECTIVE DATE OF JANUARY 20, 2016.
COMMUNITY: CITY OF O'FALLON
NUMBER: 290316
PANEL: 0237
SUFFIX: G
BY EXPRESS REFERENCE TO THIS MAP AND ITS LEGEND, THIS TRACT OF LAND IS INDICATED TO BE WITHIN THE FOLLOWING ZONES:
ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
ZONE AE - SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE (BASE FLOOD ELEVATIONS DETERMINED.)
FLOODWAY AREAS IN ZONE AE.
THE EVALUATION PROVIDED IN THIS NOTE IS RESTRICTED TO SIMPLY INDICATING THE APPARENT HORIZONTAL LOCATION OF THE PROPERTY WITH RESPECT TO THE FEATURES DISPLAYED ON THE MAP. NO FIELD STUDY OF THE DRAINAGE CHARACTERISTICS TO WHICH THIS PROPERTY MAY BE SUBJECT TO HAS BEEN CONDUCTED AND NO REPRESENTATION CONCERNING THE INSURABILITY OF THIS PROPERTY OR THE POTENTIAL SUSCEPTIBILITY OF THIS PROPERTY TO FLOODING HAS BEEN MADE. BAX ENGINEERING MAKES NO REPRESENTATION CONCERNING THE ACCURACY OF THE ABOVE REFERENCED FIRM MAP WHICH INCLUDES A NOTE THAT "THIS MAP IS FOR USE IN ADMINISTERING THE NATIONAL FLOOD INSURANCE PROGRAM". IT DOES NOT NECESSARILY IDENTIFY ALL AREA SUBJECT TO FLOODING, PARTICULARLY FROM LOCAL DRAINAGE SOURCES OF SMALL SIZE.
THIS FLOOD ZONE DETERMINATION AND THE FLOOD ZONE LIMITS SHOWN HEREON, IF ANY, WERE MADE USING FEMA INFORMATION WHICH WAS AVAILABLE ON THE DATE.

- ALL NEW LIGHTING SHALL BE DOWNCAST LIGHTS CONSISTENT WITH CITY OF O'FALLON STANDARDS AND SPECIFICATIONS.
- ALL MECHANICAL EQUIPMENT SHALL BE ROOFTOP MOUNTED AND WILL BE SCREENED PER CITY OF O'FALLON ZONING CODE, SECTION 400.278.
- UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS.
- ALL NEW UTILITIES ARE TO BE LOCATED UNDERGROUND.
- ALL SITE CONSTRUCTION SHALL COMPLY WITH CITY OF O'FALLON STANDARDS. ALL CONSTRUCTION WITHIN STATE RIGHT OF WAY SHALL COMPLY WITH MDOT STANDARDS.
- ALL SIGNAGE FOR THIS FACILITY SHALL REQUIRE SEPARATE PERMIT APPROVAL.
- INCREASED DIFFERENTIAL CALCULATIONS: 0.88 AC. ADDITIONAL IMPERVIOUS AREA
0.88 AC. X (3.54-1.70) = 1.62 GFS INCREASED RUNOFF
- LANDSCAPE CALCULATIONS:
NO PUBLIC STREET FRONTAGE TREES ARE REQUIRED.
5 TREES TO BE PLACED IN FRONT PARKING AREAS WHERE SHOWN.
ADDITIONAL A/C UNIT SCREENING IS SHOWN ON THE PLAN SET WHERE INDICATED..



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PROJECT TITLE:

AS-BUILT PLANS FOR:
First Baptist Church of O'Fallon
8750 Veterans Memorial Pkwy
O'Fallon, MO 63366

ENGINEERING
PLANNING
SURVEYING
221 Point West Blvd.
St. Charles, MO 63301
636-929-5562
FAX 636-929-1718



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NO.	DESCRIPTION	DATE

Developer / Owner:

First Baptist Church of O'Fallon
8750 Veterans Memorial Pkwy
O'Fallon, MO 63366
Phone #

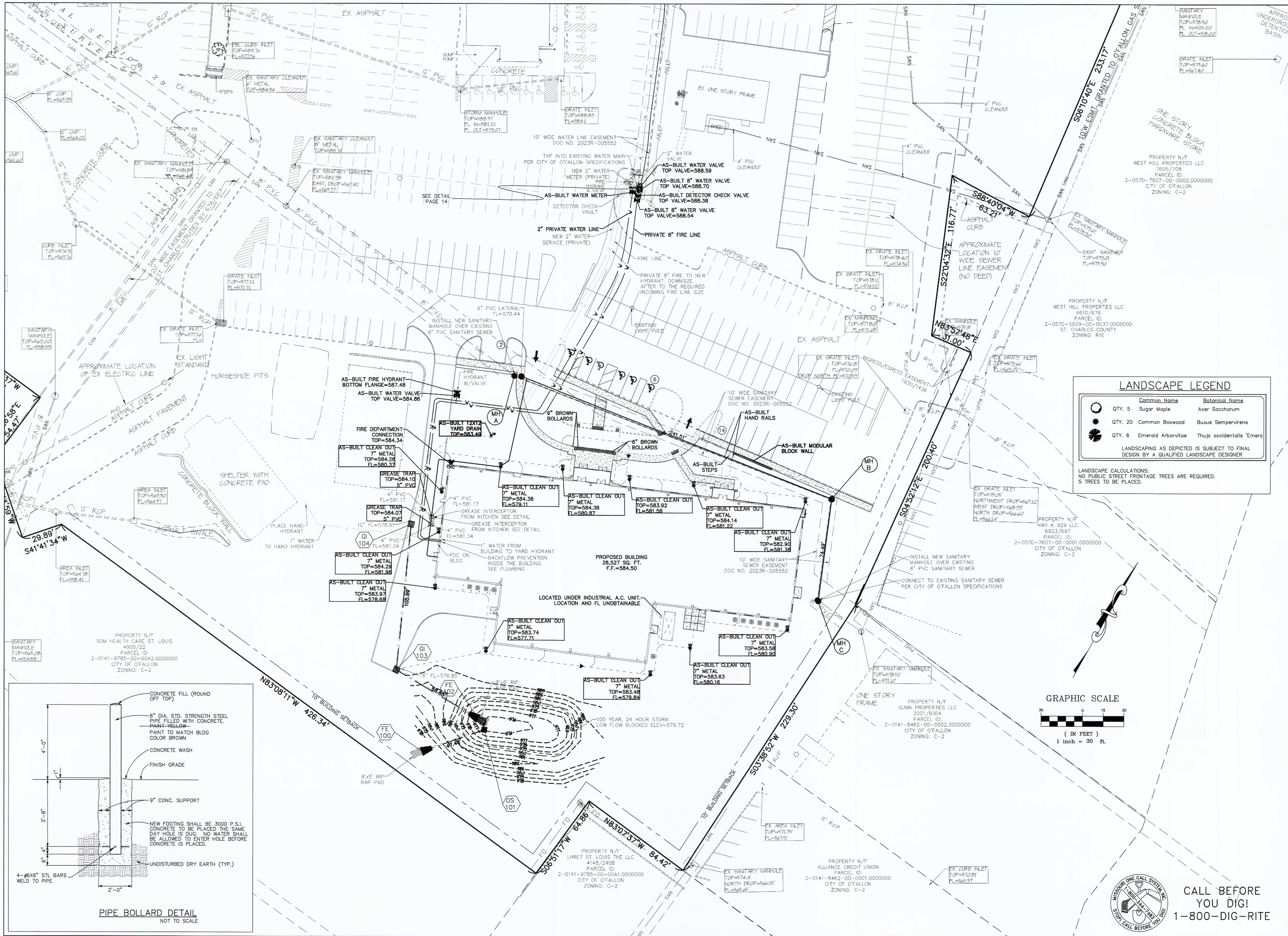
COVER SHEET

P+Z No. 22-005714
Approved: 07-07-22

City No.
22-010520

Page No.

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PROJECT TITLE:
AS-BUILT PLANS FOR:
First Baptist Church of O'Fallon
8750 Veterans Memorial Pkwy
O'Fallon, MO 63366

Box Project # 83-4007D Issue Date: XX/XX/2022

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STATE OF MISSOURI
MARK E. COLLINS
NUMBER
PLS-2706000173
PROFESSIONAL LAND SURVEYOR

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First Baptist Church of O'Fallon
8750 Veterans Memorial Pkwy
O'Fallon, MO 63366
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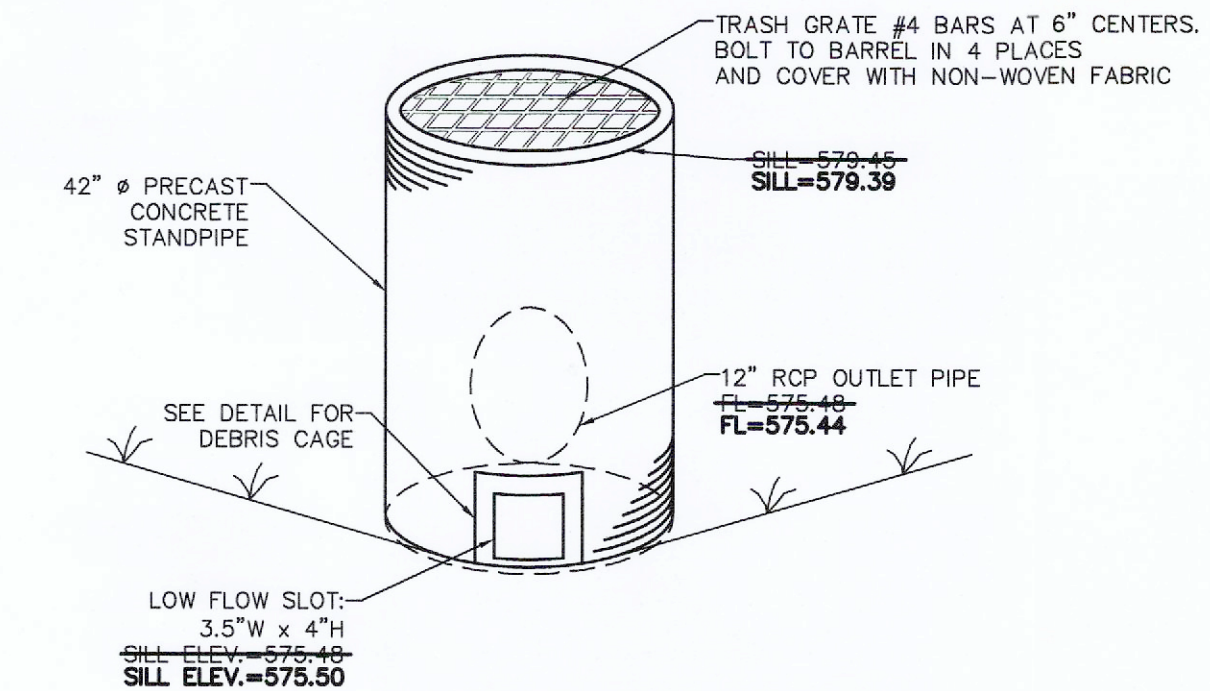
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P+Z No. 22-005714
Approved: 07-07-22

City No.
22-010520

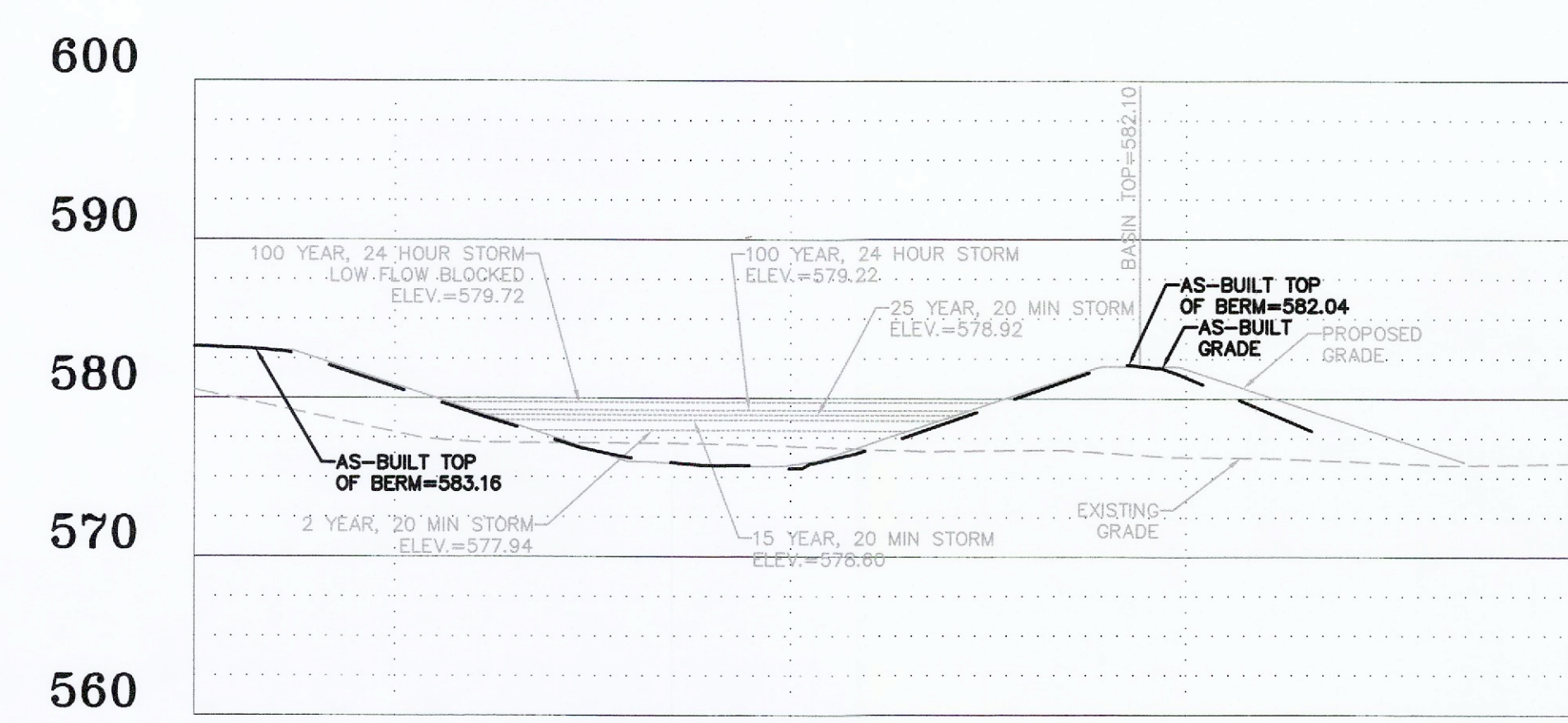
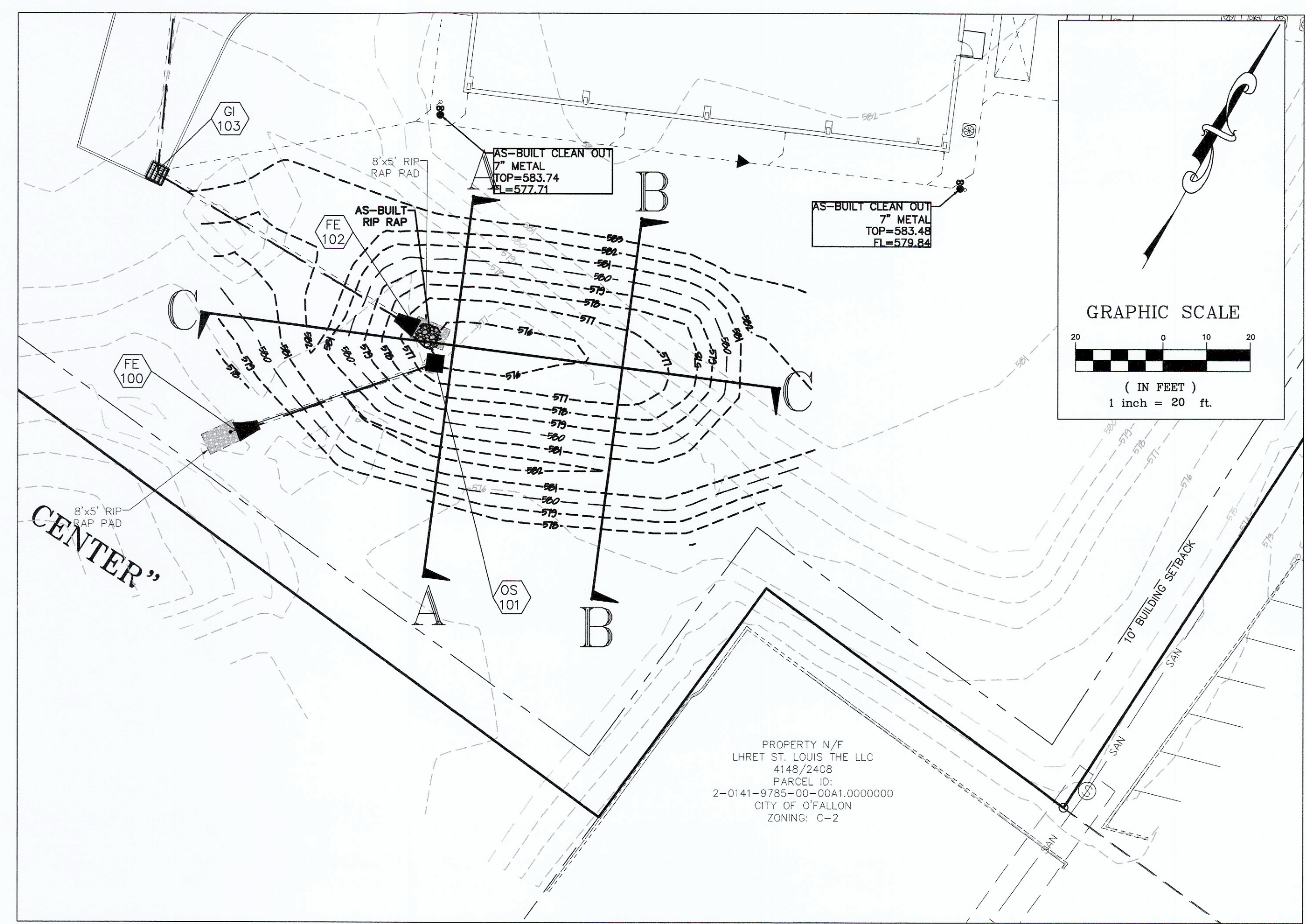
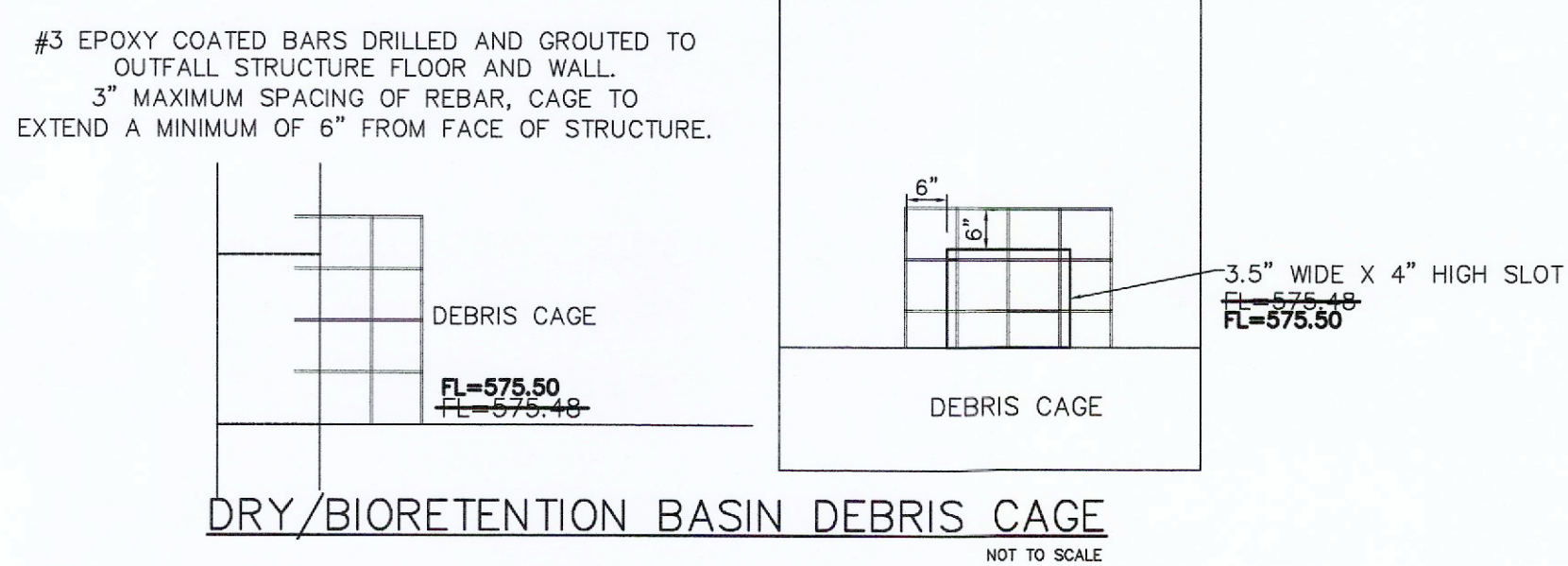
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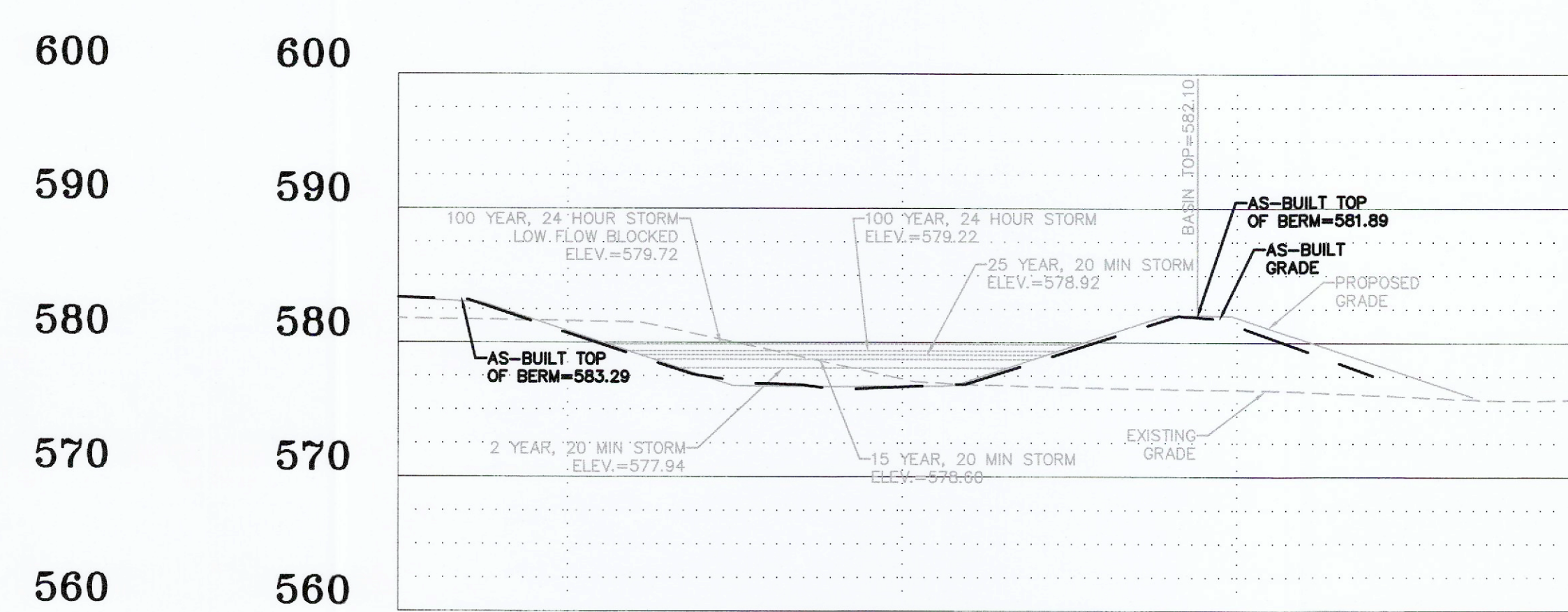


OVERFLOW STRUCTURE OS 101 DETAIL
NOT TO SCALE

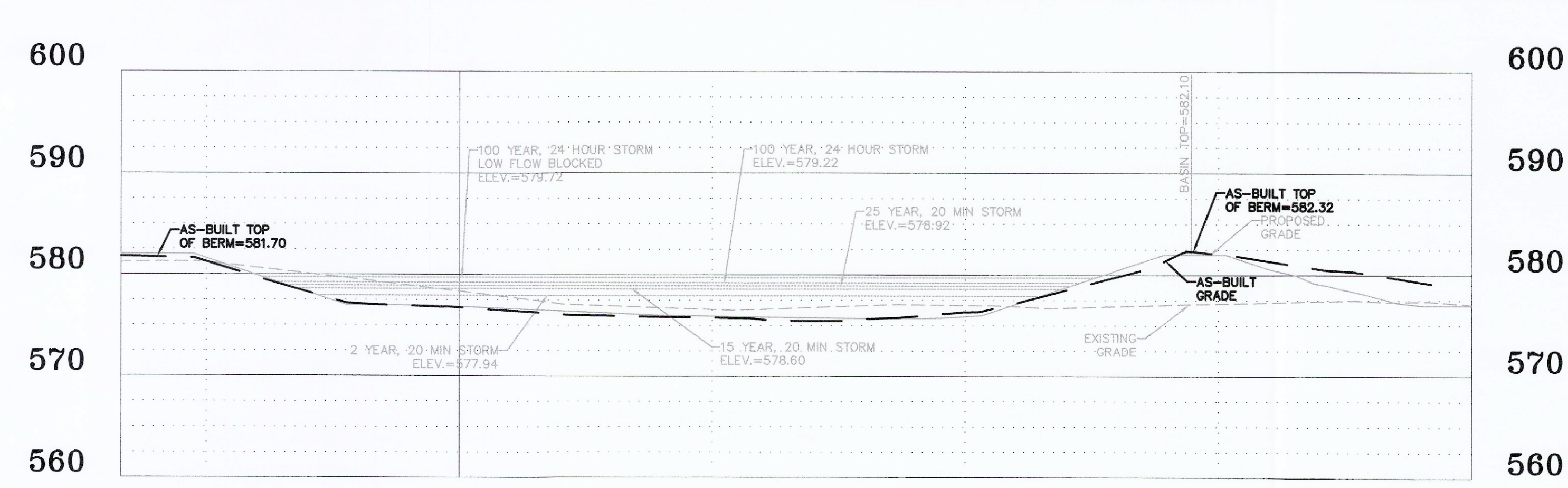
2 YEAR 20 MINUTE HIGHWATER = 577.94- 577.99
15 YEAR 20 MINUTE HIGHWATER = 578.60- 578.61
25 YEAR 20 MINUTE HIGHWATER = 578.92- 578.93
100 YEAR 24 HOUR HIGHWATER = 579.22- 579.21
100 YEAR 24 HOUR LFB HIGHWATER = 579.72- 579.66



BASIN SECTION AA
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'



BASIN SECTION BB
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'



BASIN SECTION CC
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'



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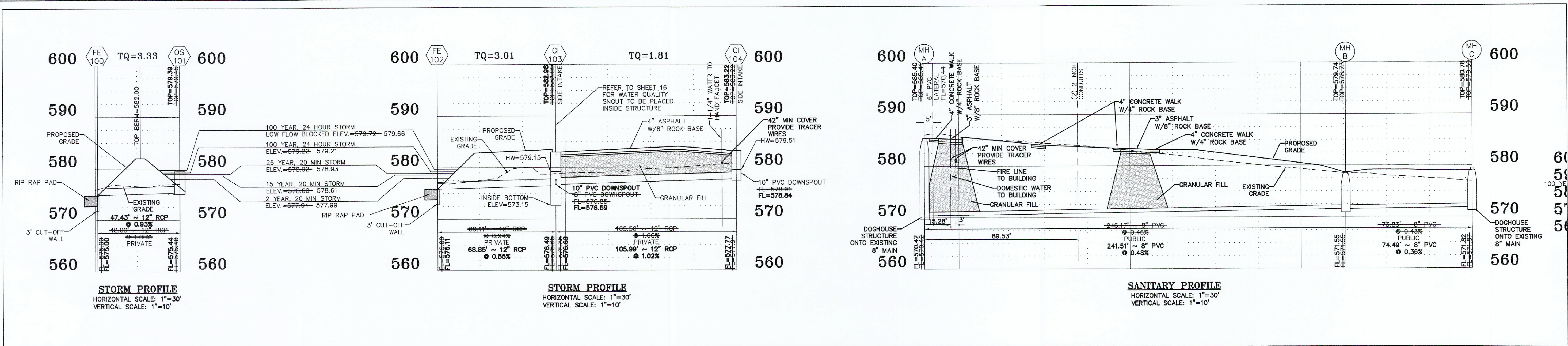
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BASIN DETAILS

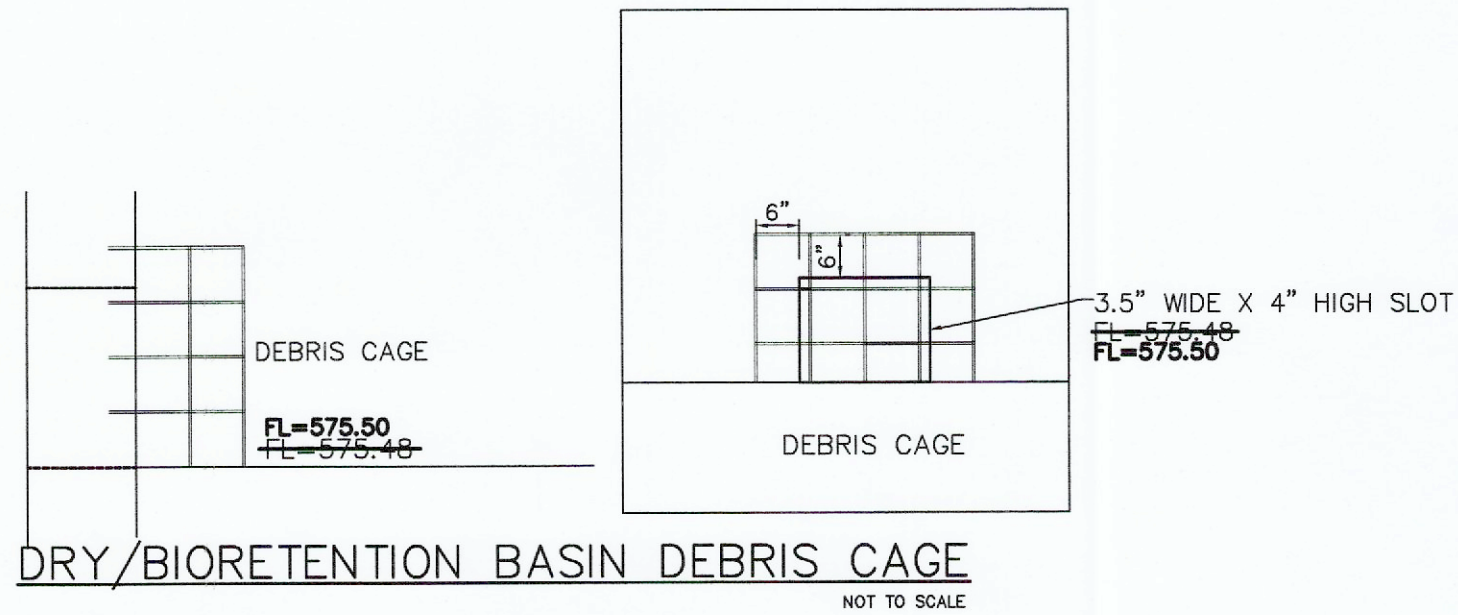
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St Charles County Government Hydraulic Review Output Data											\\VAULTSERVER\FileFolders\4000\4007D - First Baptist Church Building Addition\Engineering\Hydraulics\As-Built PIPE HYDRO.txt 10/7/2024 Calculations Under Full Flow																
Upp Str	Low Str	PL	S	Upp FL LN	Low FL LN	PS	Upp ST EL	Depth HY GR	Upp HY EL	Low HY EL	Hydr Grade	FR Head	VEL	VEL Head	Junc Loss	Turn Loss	Curve Loss	STR Grade	Inl Cap	DR Area	P.I.	Q	TQ	Pipe Cap	Remarks		
1	GH104																										
2	GH103	FE102	69	12	577.77	576.69	1.02	583.22	3.71	579.51	579.15	0.00260	0.28	2.30	0.08	0.08	0.00						1.81	3.60			
					576.49	576.11	0.55	582.98	3.83	579.15	578.61	0.00710	0.49	3.83	0.23	0.00	0.05	0.00					3.01	2.64	HW=578.61		
3	OS101	FE100	47	12	575.44	575.00	0.93	579.39	3.15	576.24*	575.10	0.00870	0.41	4.24	0.28	0.28	0.00	0.00					3.33	3.44			



ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
INSIDE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT. OF PIPE CONCRETE ENCASMENT	INSIDE DIMENSIONS OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT. OF PIPE CONCRETE ENCASMENT
4	30	2.50	3.28				
6	30	2.50	3.59				
8	30	2.50	3.87				
10	30	2.50	4.09				
12	30	2.50	4.25				
15	36	3.00	5.55				
18	36	3.00	5.77	14 x 23	41	3.42	5.94
21	39	3.25	6.61				
24	42	3.50	7.39	19 x 30	49	4.08	7.68
27	45	3.75	8.18	22 x 34	53	4.42	8.61
30	49	4.08	9.30	24 x 38	58	4.83	9.70
33	53	4.42	10.53	27 x 42	62	5.17	10.71
36	56	4.67	11.43	29 x 45	66	5.50	11.72
39	DISCONTINUED			32 x 49	71	5.92	13.14
42	63	5.25	13.38	34 x 53	75	6.25	14.05
48	70	5.83	15.87	38 x 60	83	6.92	16.18
54	77	6.42	18.15	43 x 68	92	7.67	18.81
60	84	7.00	20.73	48 x 76	101	8.42	21.59
66	91	7.58	23.45	53 x 83	109	9.08	24.35
72	98	8.17	26.37	58 x 91	118	9.83	27.45
78	105	8.75	29.39	63 x 98	126	10.50	30.50
84	112	9.33	32.57	68 x 106	135	11.25	33.91
90	119	9.92	35.90	72 x 113	143	11.92	36.99
96	126	10.50	39.37	77 x 121	152	12.67	40.69
102	133	11.08	42.99	82 x 128	160	13.33	44.45
108	140	11.67	46.75	87 x 136	168	14.00	47.79
114	147	12.25	50.66	92 x 143	176	14.67	51.70
120	154	12.83	54.72	97 x 151	185	15.42	56.01
126	161	13.42	58.92				
132	168	14.00	63.27	106 x 166	202	16.83	64.48
144	182	15.17	72.40	116 x 180	216	18.17	73.59

TABLE 1
PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction

Dr. B.E.B.
Ch. J.C.K.

2009

SHEET 1

ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
INSIDE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT. OF PIPE CONCRETE ENCASMENT	INSIDE DIMENSIONS OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT. OF PIPE CONCRETE ENCASMENT
4	30	2.50	3.28				
6	30	2.50	3.59				
8	30	2.50	3.87				
10	30	2.50	4.09				
12	30	2.50	4.25				
15	36	3.00	5.55				
18	36	3.00	5.77	14 x 23	41	3.42	5.94
21	39	3.25	6.61				
24	42	3.50	7.39	19 x 30	49	4.08	7.68
27	45	3.75	8.18	22 x 34	53	4.42	8.61
30	49	4.08	9.30	24 x 38	58	4.83	9.70
33	53	4.42	10.53	27 x 42	62	5.17	10.71
36	56	4.67	11.43	29 x 45	66	5.50	11.72
39	DISCONTINUED			32 x 49	71	5.92	13.14
42	63	5.25	13.38	34 x 53	75	6.25	14.05
48	70	5.83	15.87	38 x 60	83	6.92	16.18
54	77	6.42	18.15	43 x 68	92	7.67	18.81
60	84	7.00	20.73	48 x 76	101	8.42	21.59
66	91	7.58	23.45	53 x 83	109	9.08	24.35
72	98	8.17	26.37	58 x 91	118	9.83	27.45
78	105	8.75	29.39	63 x 98	126	10.50	30.50
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96	126	10.50	39.37	77 x 121	152	12.67	40.69
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108	140	11.67	46.75	87 x 136	168	14.00	47.79
114	147	12.25	50.66	92 x 143	176	14.67	51.70
120	154	12.83	54.72	97 x 151	185	15.42	56.01
126	161	13.42	58.92				
132	168	14.00	63.27	106 x 166	202	16.83	64.48
144	182	15.17	72.40	116 x 180	216	18.17	73.59

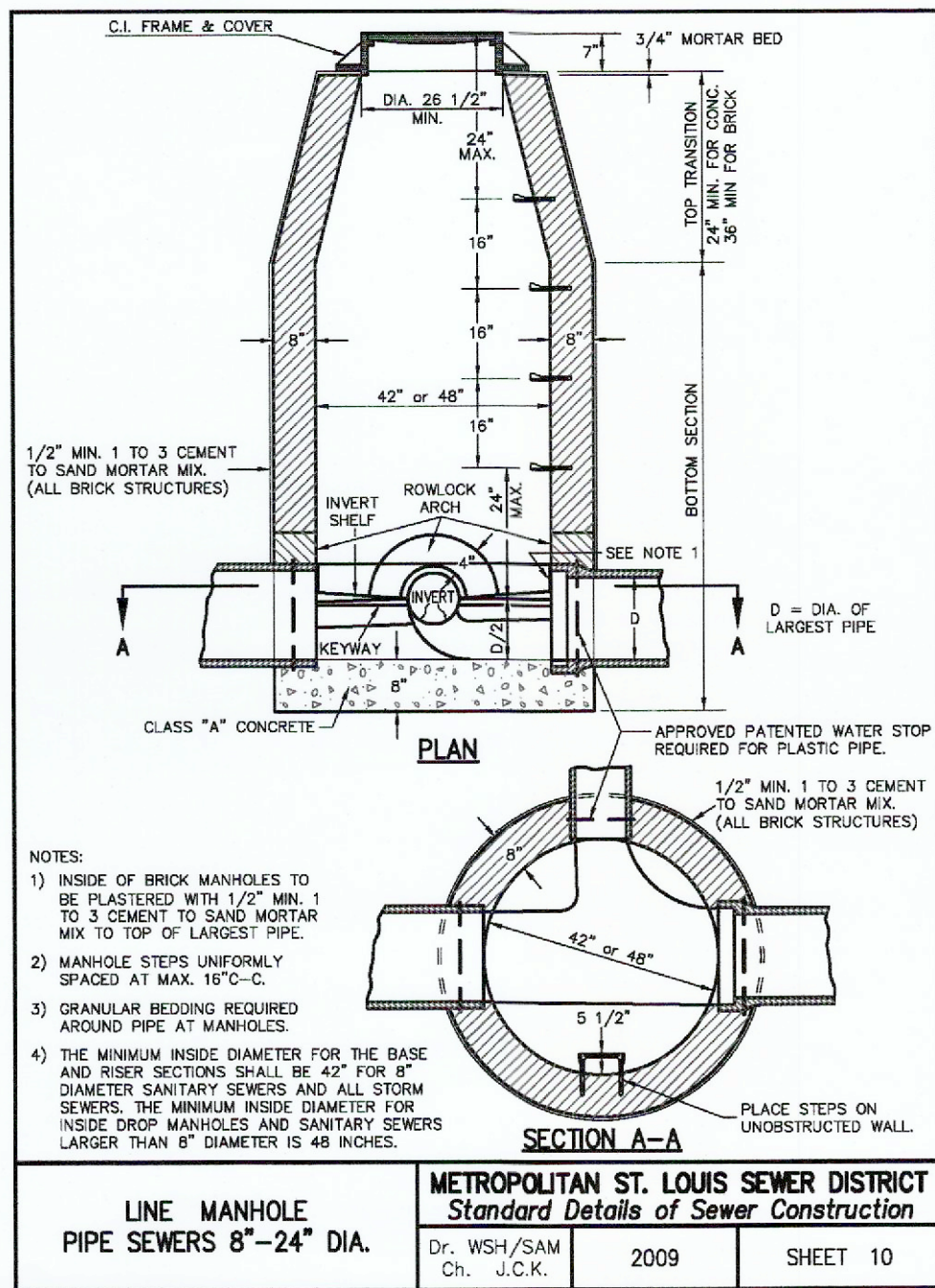
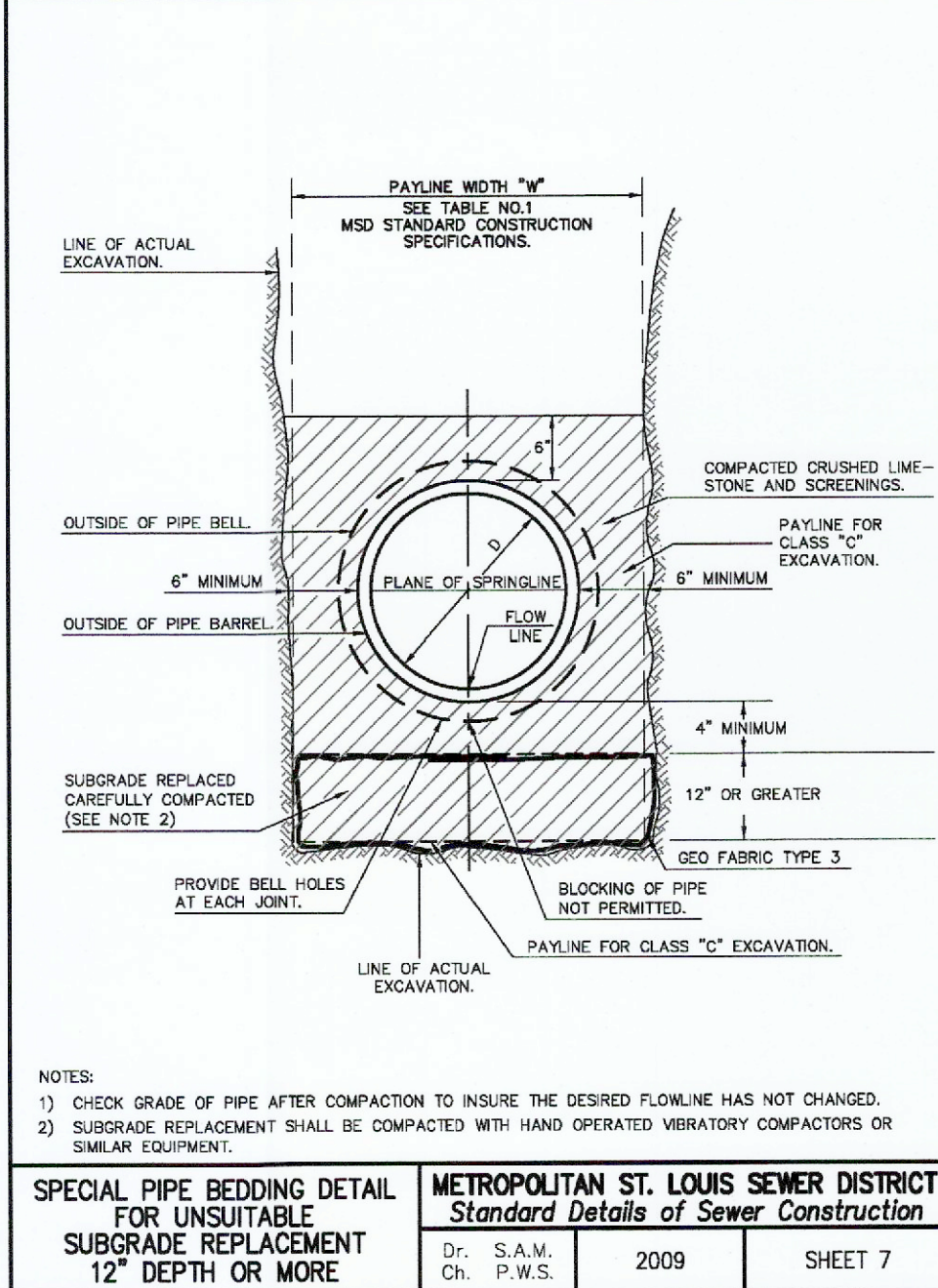
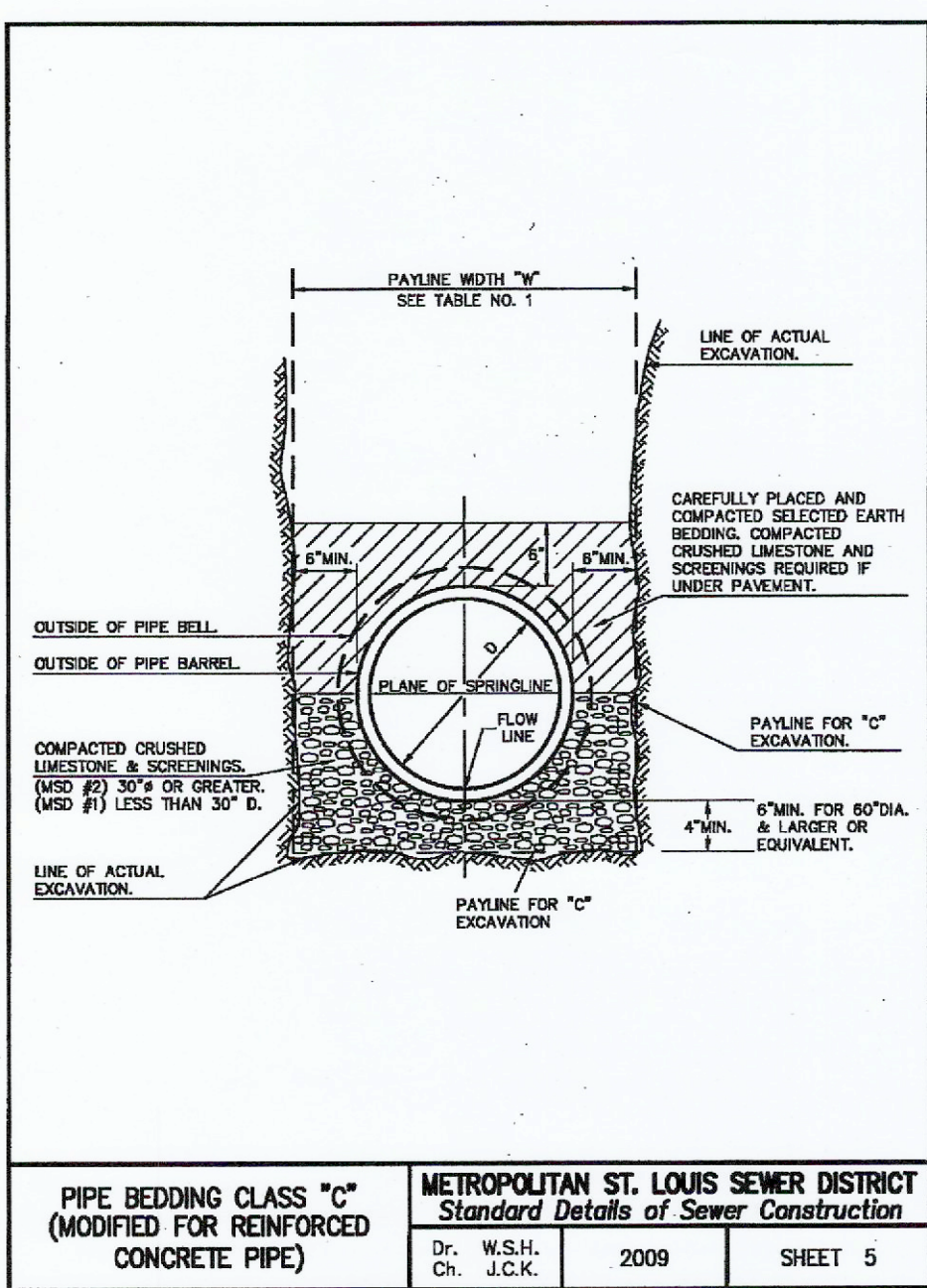
PIPE BEDDING CLASS "C"
(FOR ALL 6" TO 18" PIPE EXCEPT REINFORCED CONCRETE PIPE)

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction

Dr. W.S.H.
Ch. J.C.K.

2009

SHEET 4



PROJECT TITLE:
AS-BUILT PLANS FOR:
First Baptist Church of O'Fallon
8750 Veterans Memorial Pkwy
O'Fallon, MO 63366

ENGINEERING
PLANNING
SURVEYING
221 Point West Bldg.
St. Charles, MO 63301
636-928-5652
FAX 928-1218

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PROFESSIONAL LAND SURVEYOR
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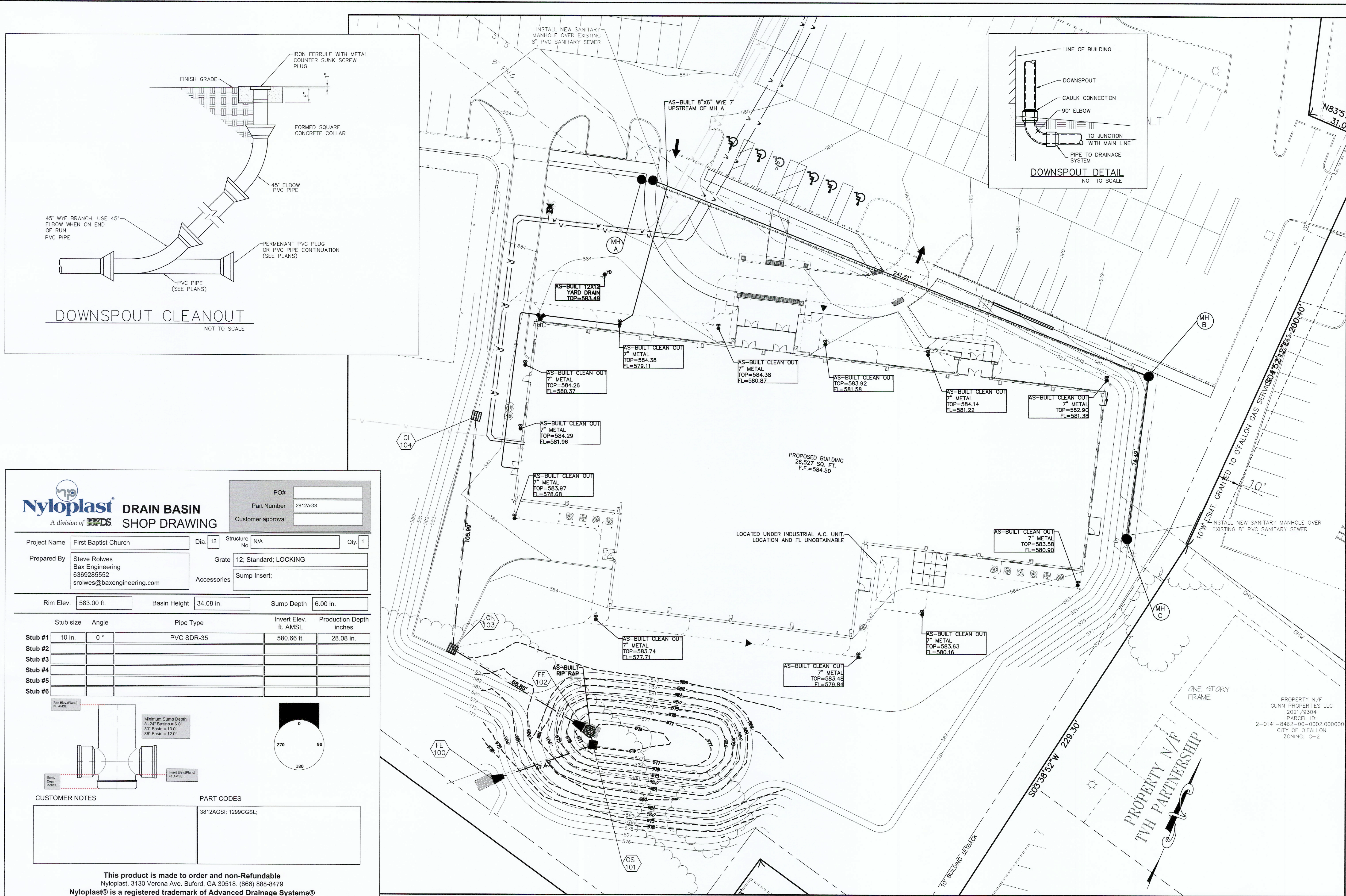
PROFILES/DETAILS

P+Z No. 22-005714
Approved: 07-07-22

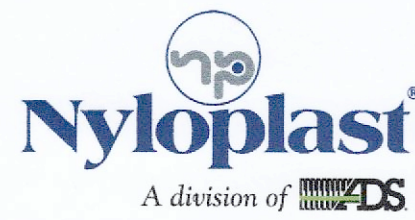
City No. 22-010520

Page No.

11 of 16



DOWNSPOUT CLEANOUT
NOT TO SCALE

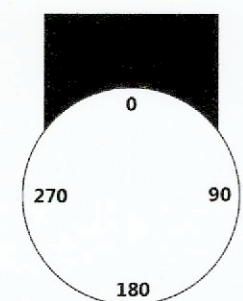
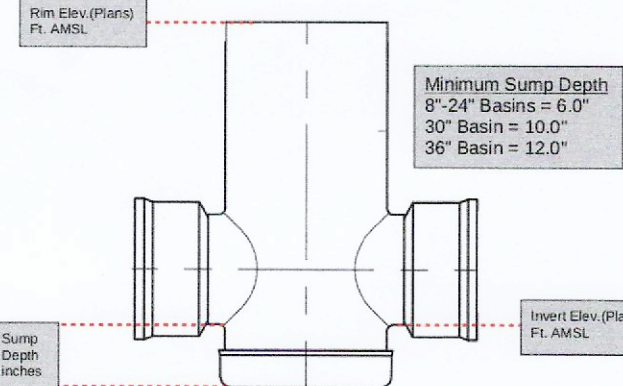


DRAIN BASIN
SHOP DRAWING

Project Name	First Baptist Church	Dia.	12	Structure No.	N/A	Qty.	1
Prepared By	Steve Rolwes Bax Engineering 6369285552 srolwes@baxengineering.com	Grate	12; Standard; LOCKING				
		Accessories	Sump Insert;				

Rim Elev.	583.00 ft.	Basin Height	34.08 in.	Sump Depth	6.00 in.
-----------	------------	--------------	-----------	------------	----------

Stub #	Stub size	Angle	Pipe Type	Invert Elev. ft. AMSL	Production Depth inches
Stub #1	10 in.	0°	PVC SDR-35	580.66 ft.	28.08 in.
Stub #2					
Stub #3					
Stub #4					
Stub #5					
Stub #6					



CUSTOMER NOTES	PART CODES
	3812AGSI; 1299CGSL;

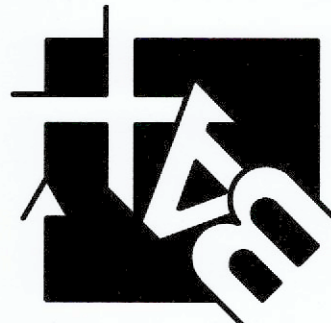
This product is made to order and non-Refundable
Nyloplast, 3130 Verona Ave. Buford, GA 30518. (866) 888-8479
Nyloplast® is a registered trademark of Advanced Drainage Systems®

Nyloplast® is not responsible for accuracy of shop drawings submitted by customer through Basin Configurator.
Submission of shop drawings for purchase and fabrication constitute an approval for production as designed by customer.

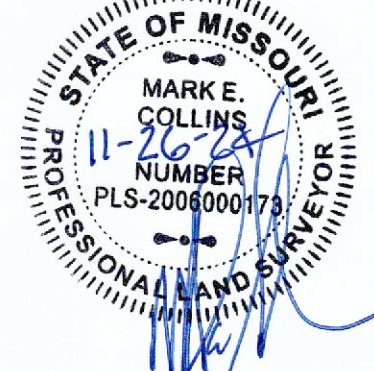
Downspout Detail
SCALE: 1"=20'

PROJECT TITLE:
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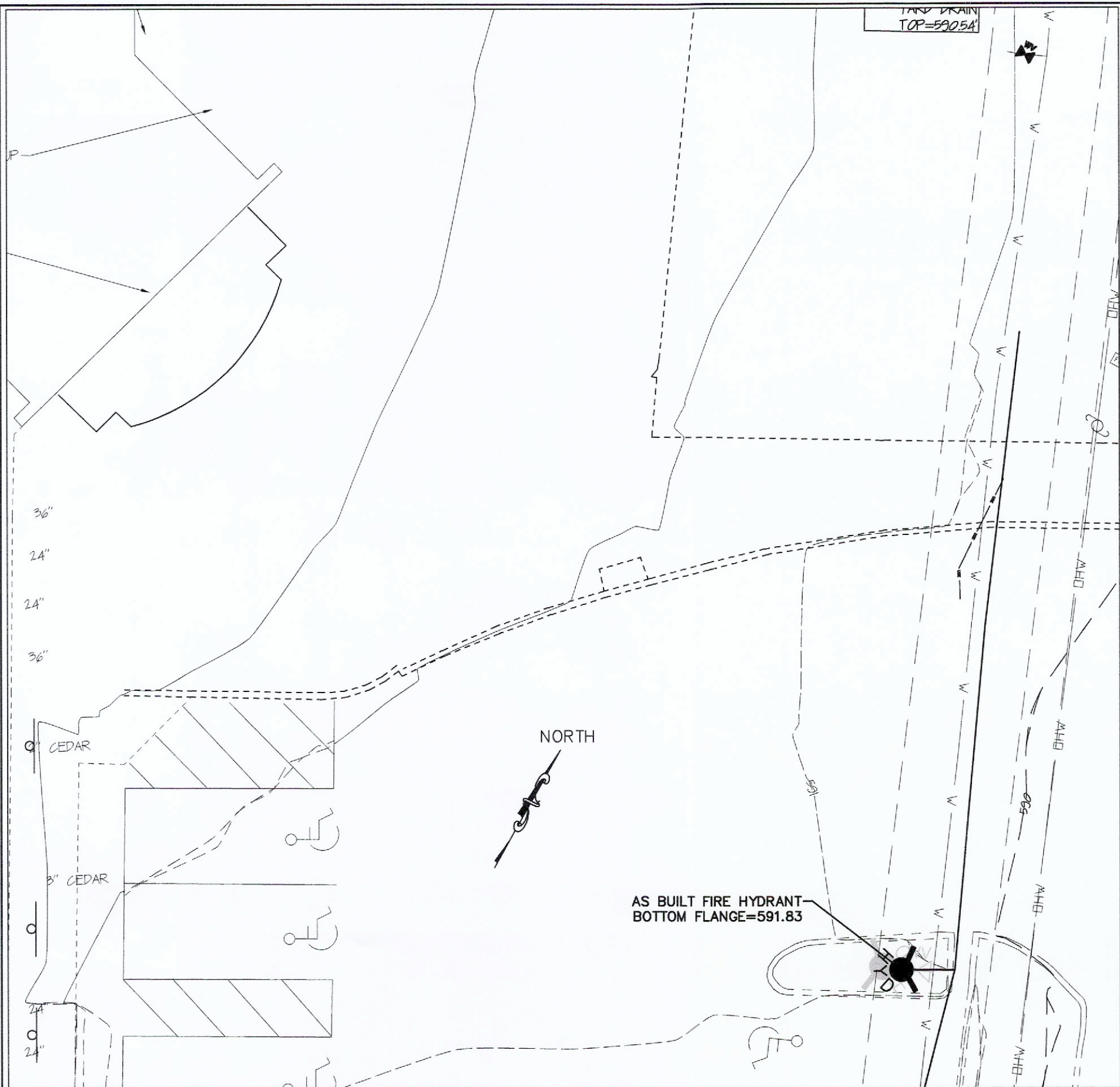
NO.	DESCRIPTION

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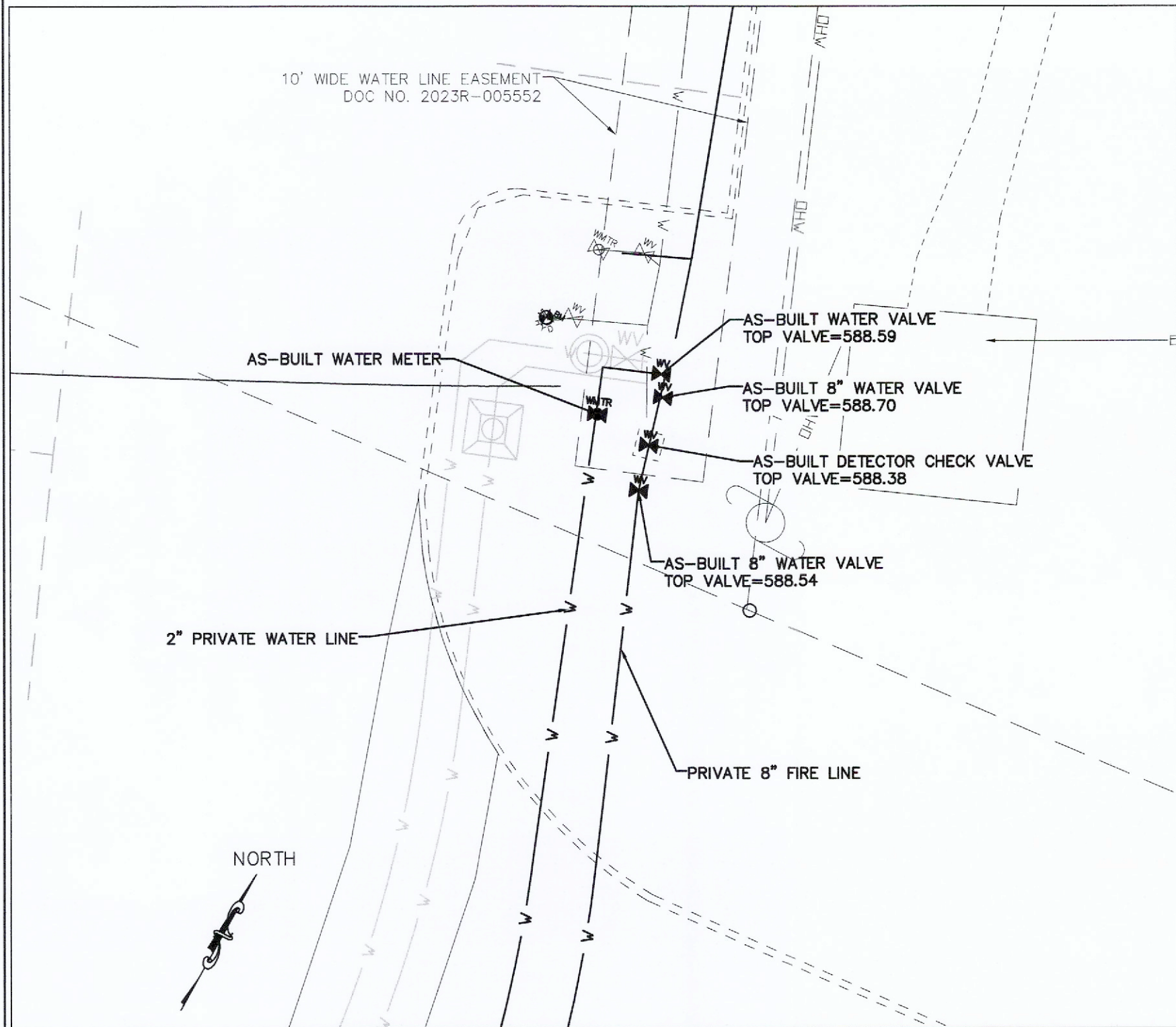
DOWNSPOUT PLAN MULTIPURPOSE BLDG.

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City No. 22-010520

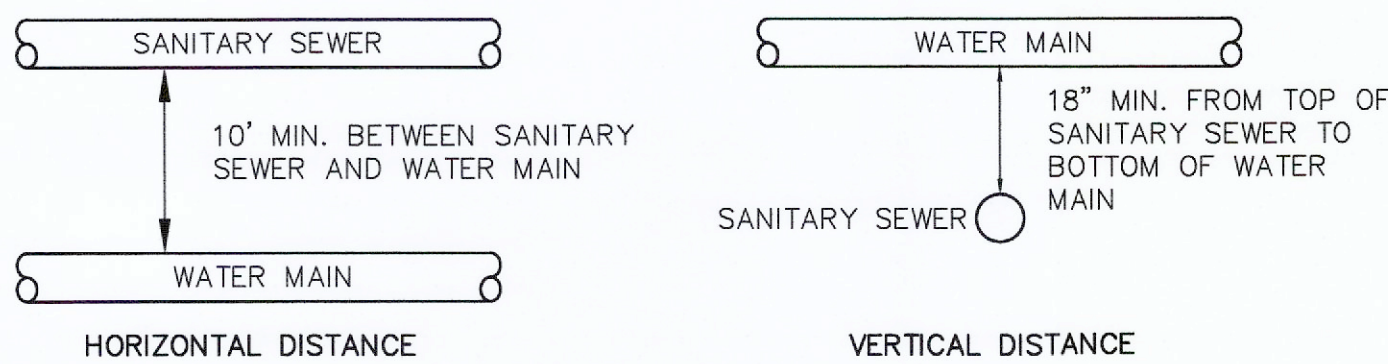
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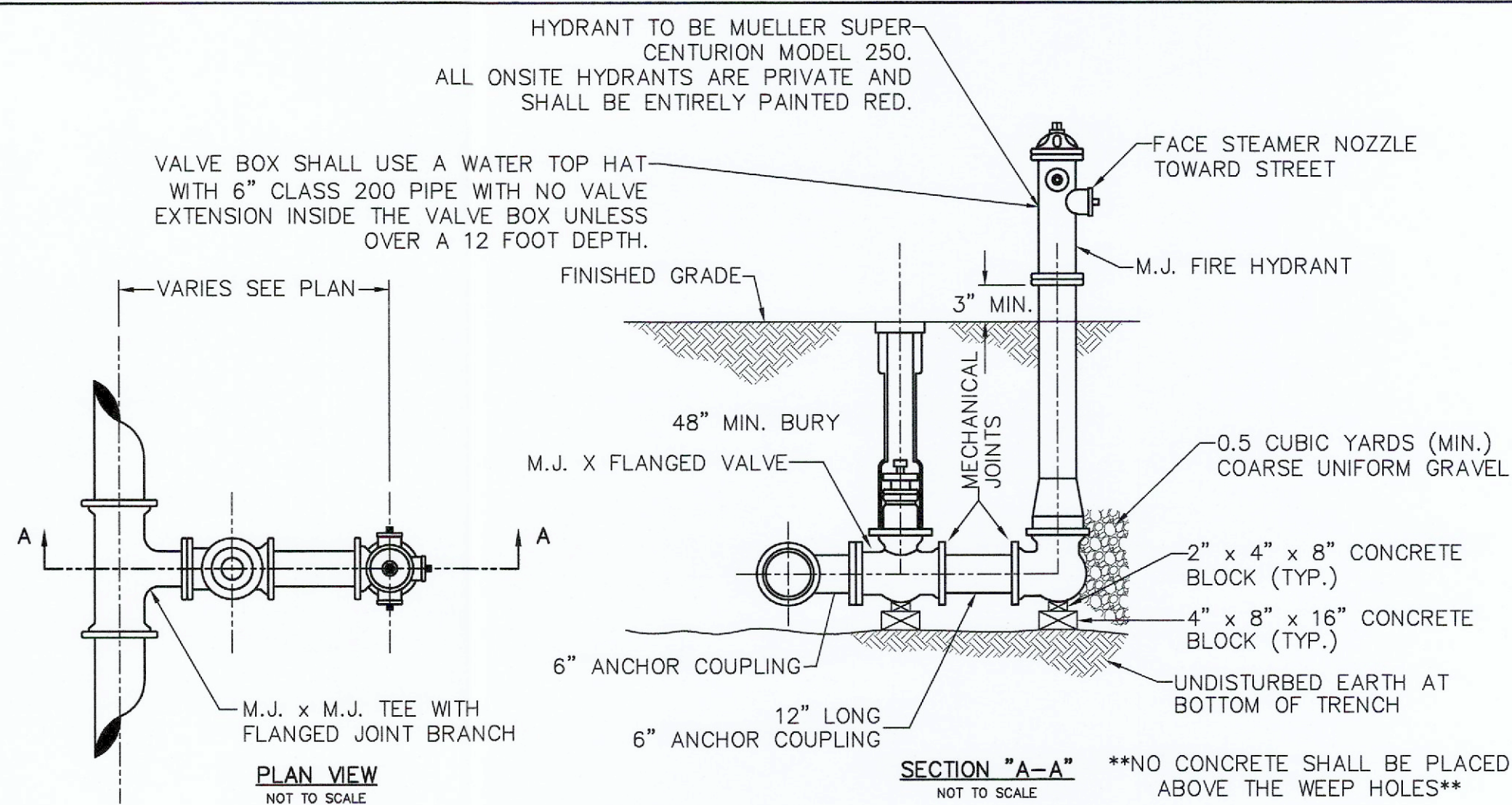
ADDITIONAL FIRE HYDRANT BY CHURCH TO THE NORTH DETAIL
SCALE: 1"=10'



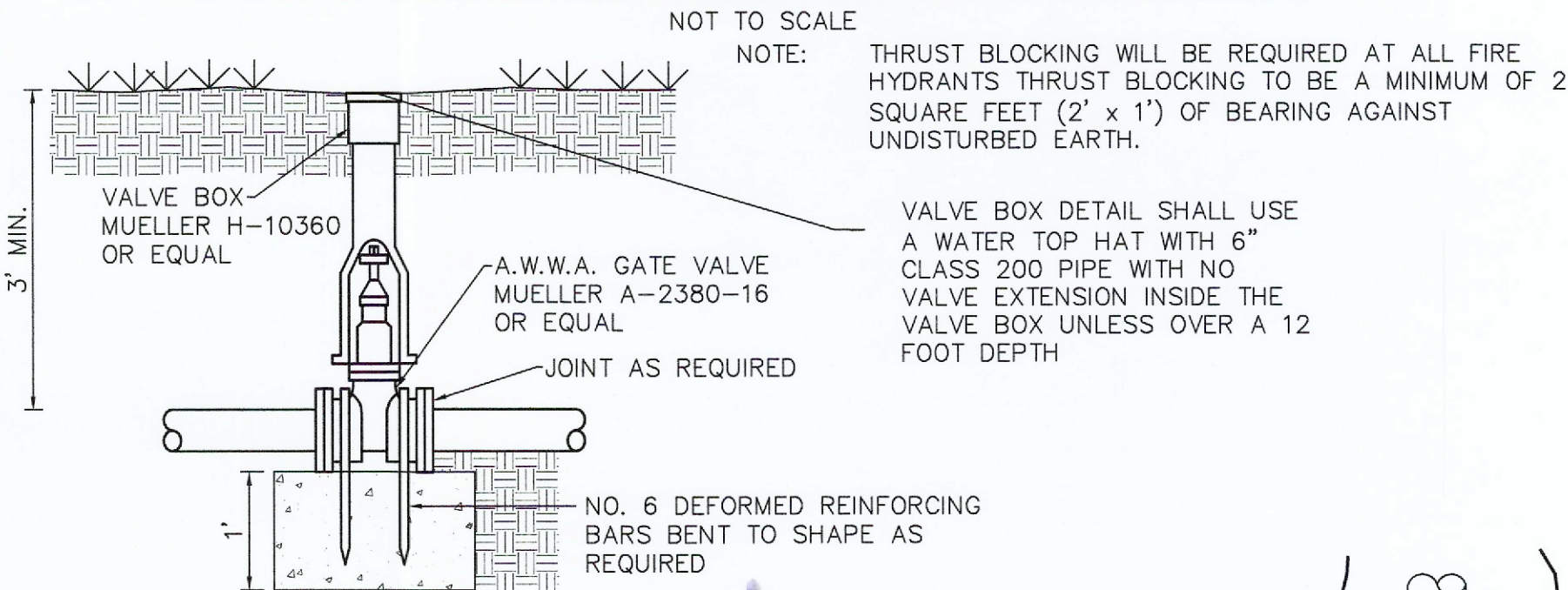
DOMESTIC WATER/FIRE SERVICE TAP DETAIL
SCALE: 1"=10'



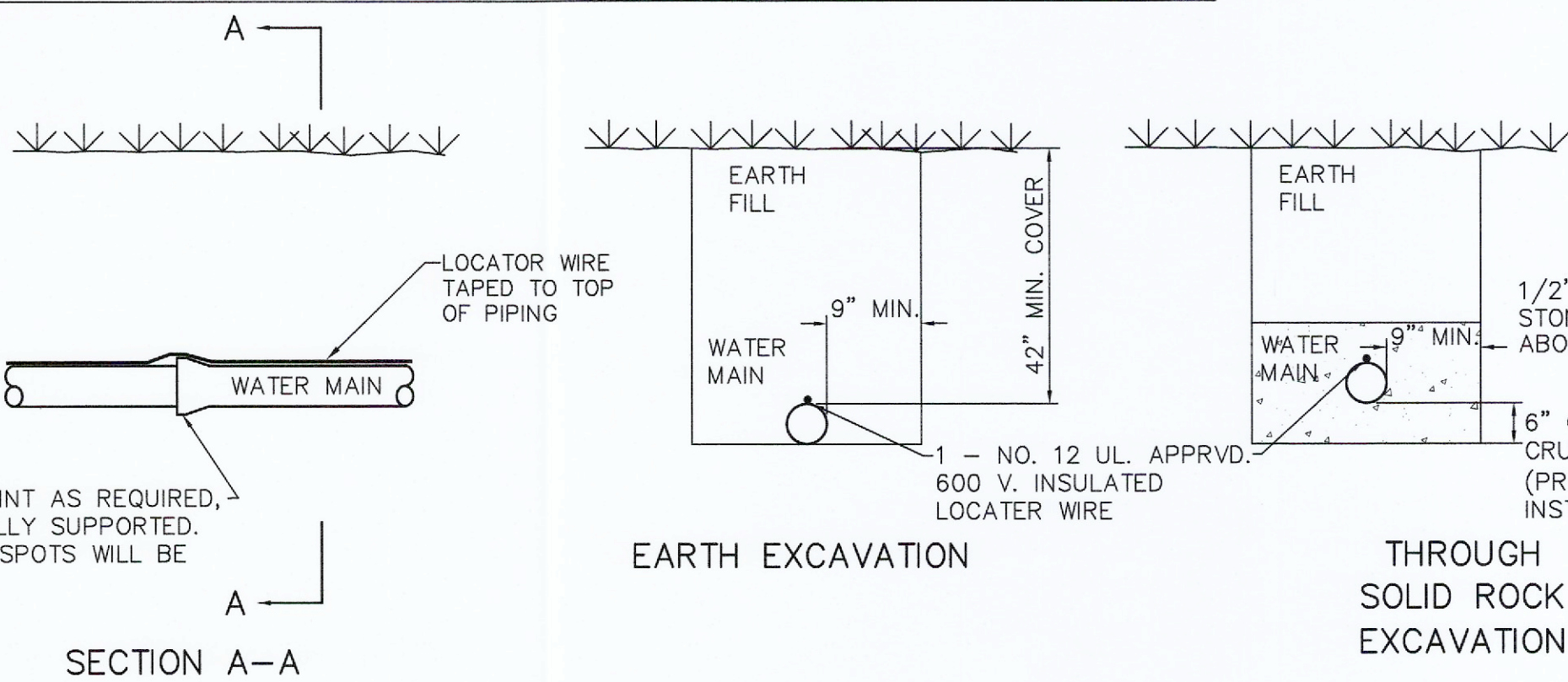
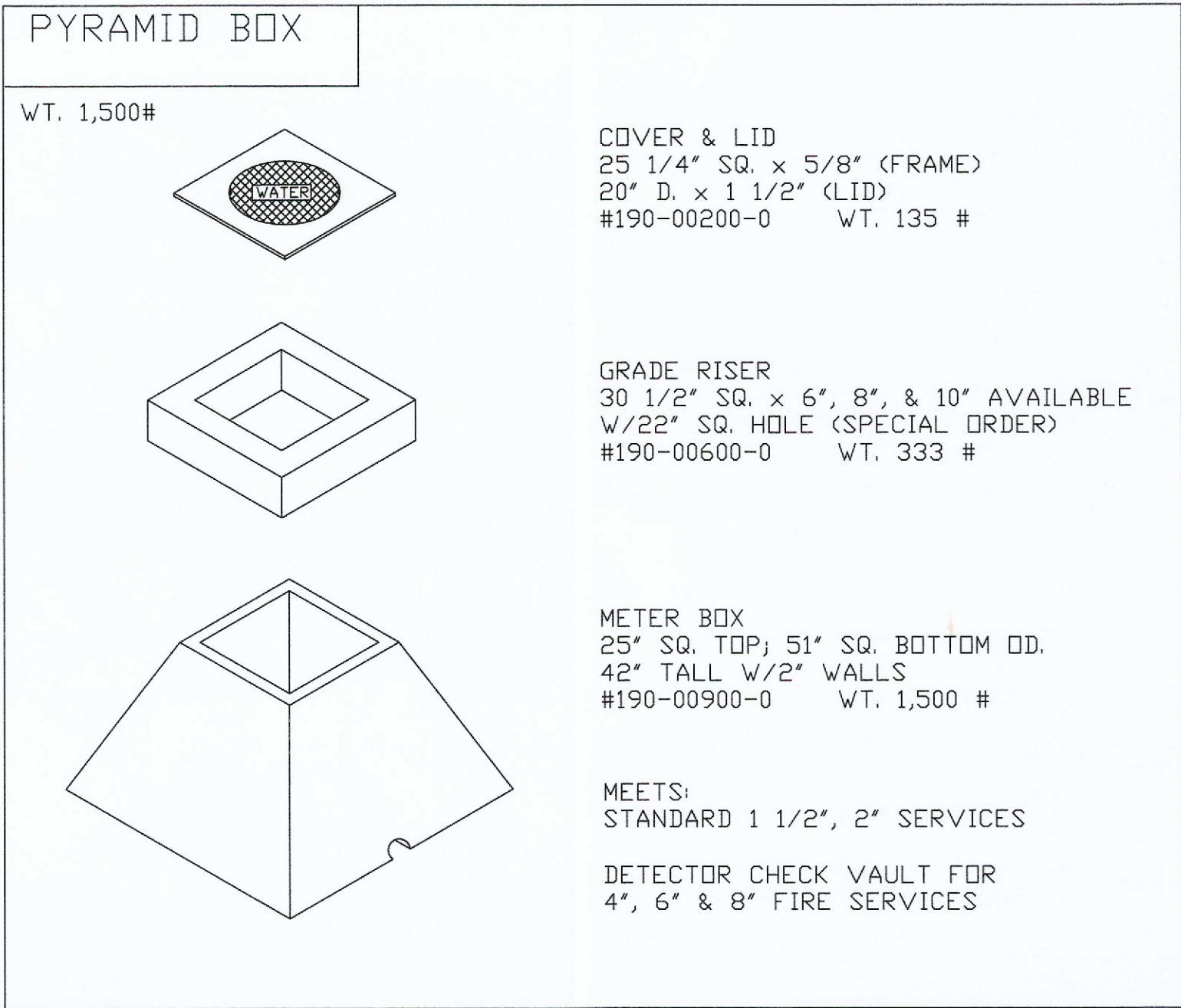
TYPICAL WATER AND SEWER SEPARATION
NOT TO SCALE



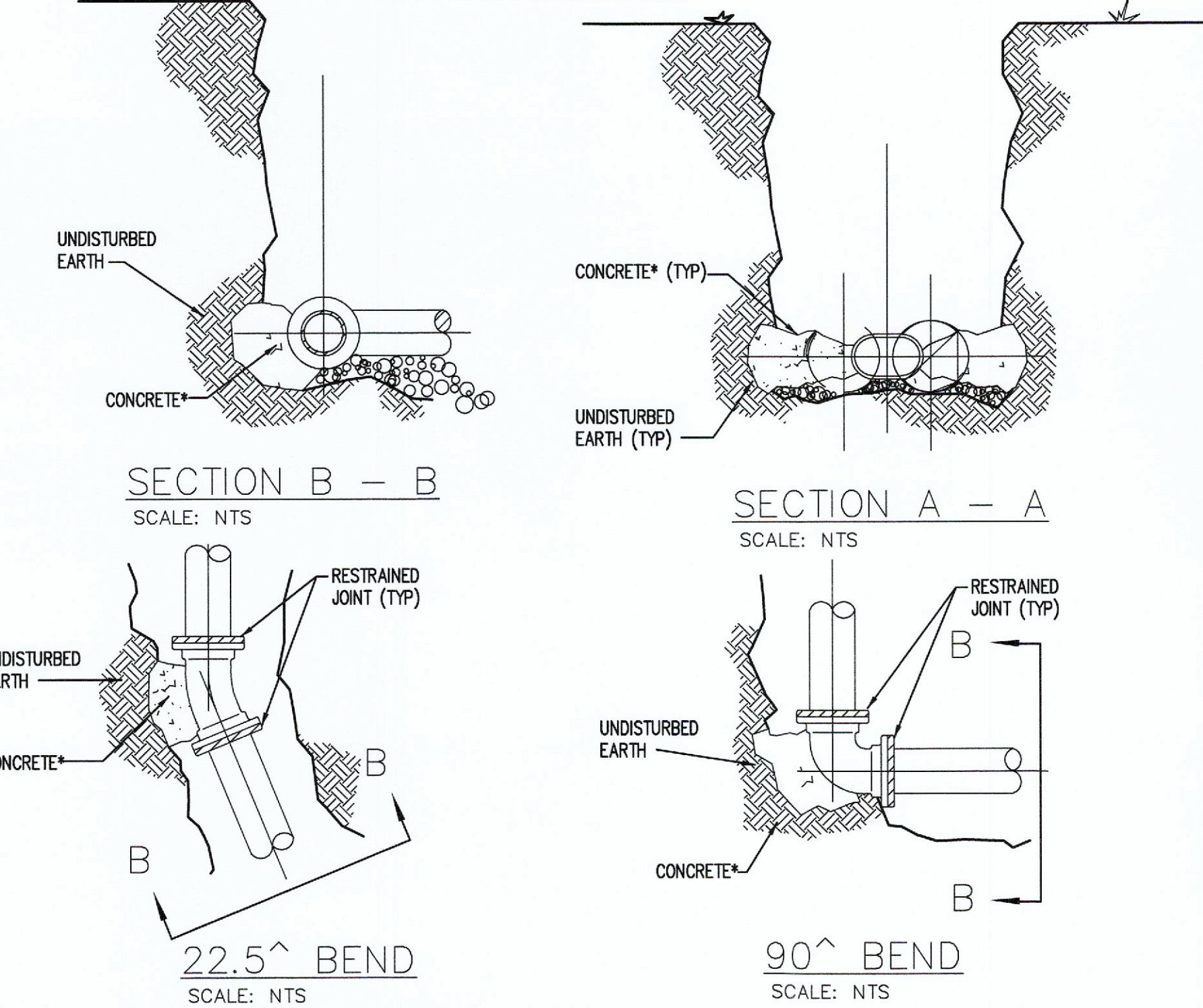
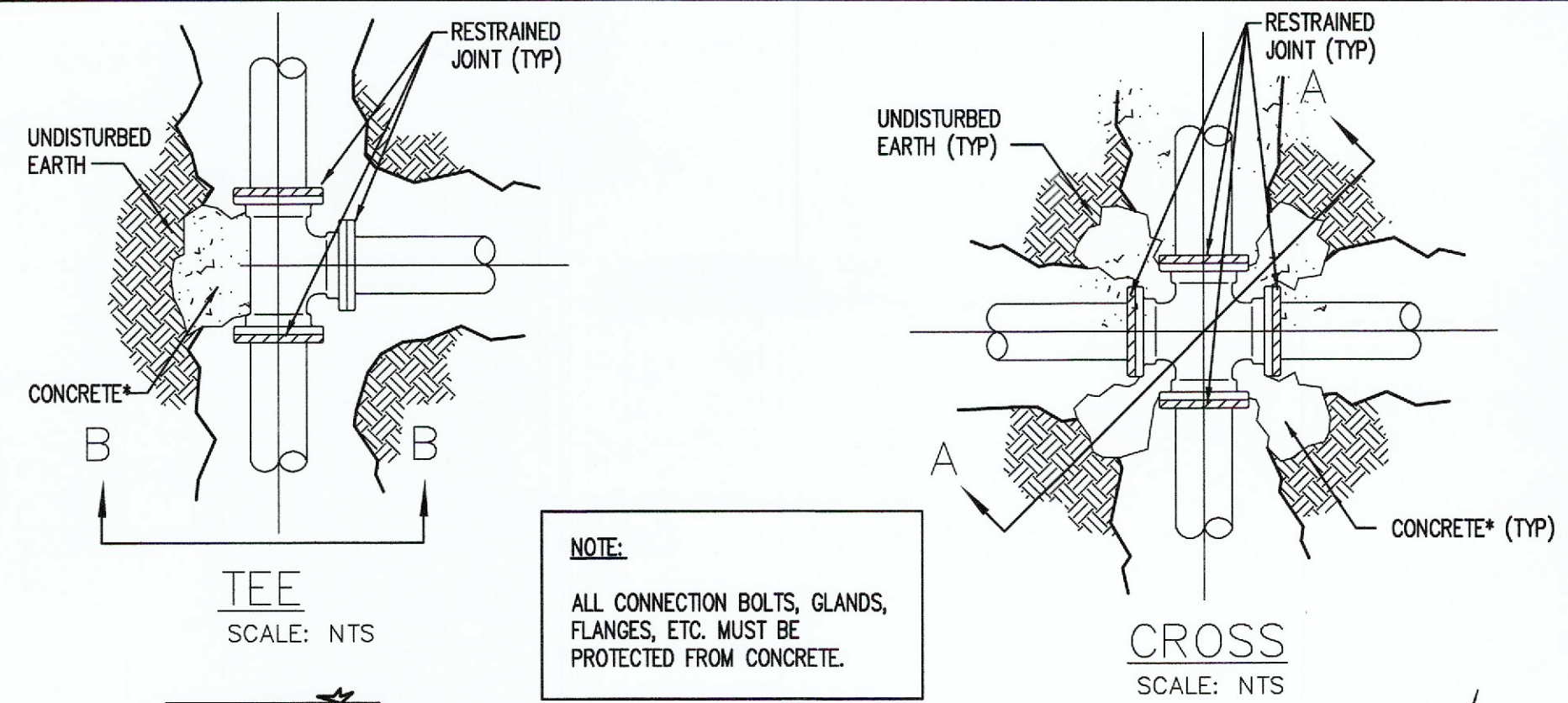
STANDARD FIRE HYDRANT INSTALLATION DETAIL



GATE VALVE W/THRUST BLOCK
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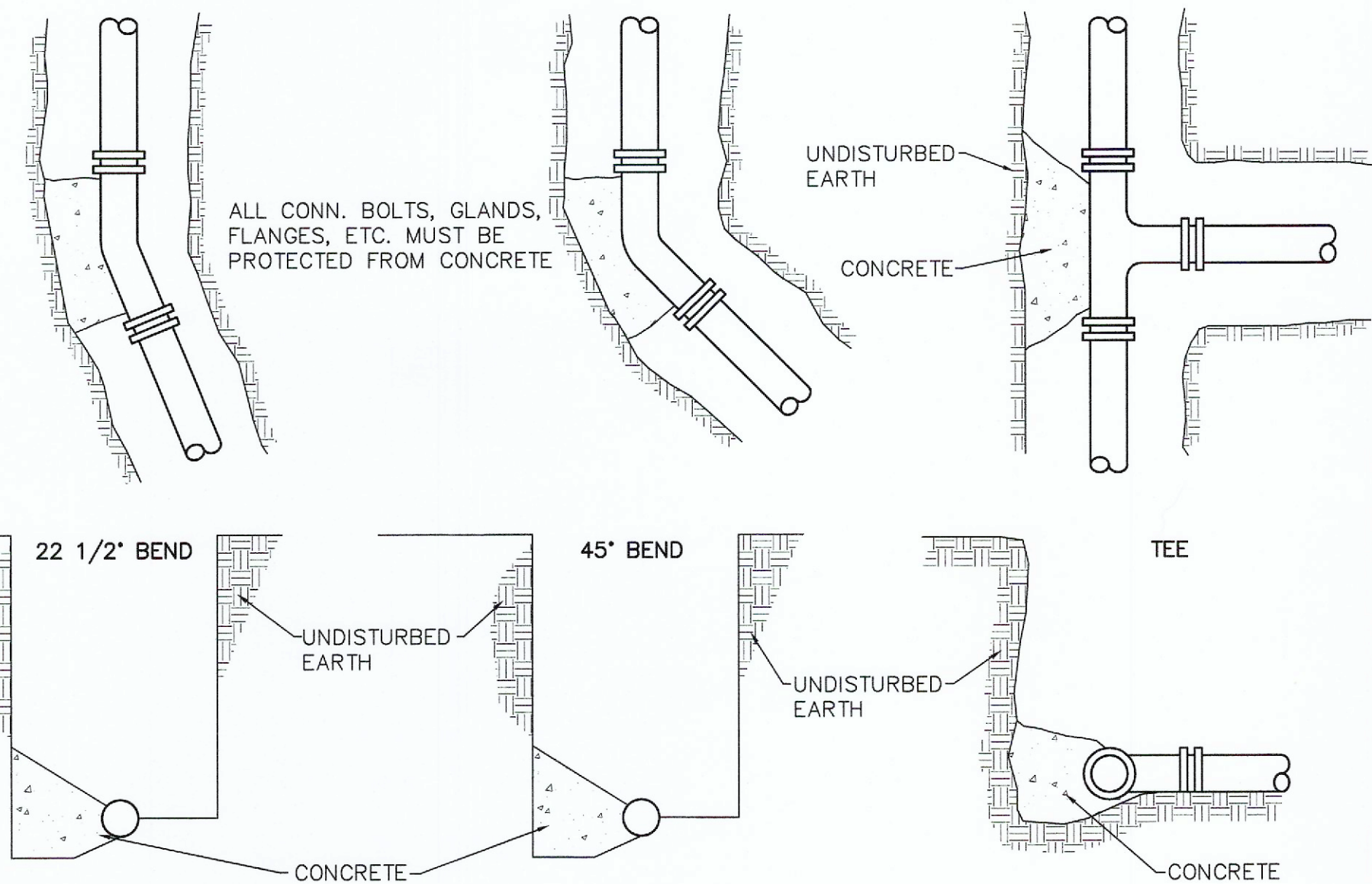


TYPICAL WATER MAIN INSTALLATION DETAILS
SEE SPECIFICATIONS AND DETAILS FOR BEDDING AND BACKFILL REQUIREMENTS FOR WATER MAINS.
NOT TO SCALE



MAIN SIZE (I.D.)	MIN. THRUST BLOCK BEARING DIMENSIONS TO BEAR AGAINST UNDISTURBED EARTH				
	45° BEND	22 1/2° BEND	TEE	VALVE	CROSS
2"	.5' X 1'	.5' X 1'	.5' X 1'	.5' X 1'	.5' X 1'
4"	1' X 1'	1' X 1'	2' X 1'	2' X 1'	1' X 1'
6"	1.5' X 1'	1' X 1'	2' X 1'	2' X 1'	1' X 1'
8"	2' X 1'	1' X 1'	2' X 2.5'	2' X 2'	1' X 1.5'
10"	2' X 2.5'	1.5' X 2'	2' X 3.5'	2' X 3'	2' X 2'
12"	2' X 3.5'	1.5' X 2.5'	3' X 3.5'	3' X 3'	2' X 3'
16"	3' X 4'	2' X 3'	4' X 4.5'	3' X 4.5'	3' X 3.5'

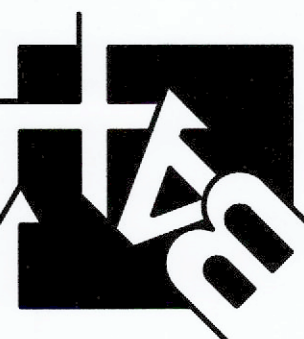
TYPICAL THRUST BLOCK DETAILS
NOT TO SCALE



TYPICAL THRUST BLOCK DETAILS
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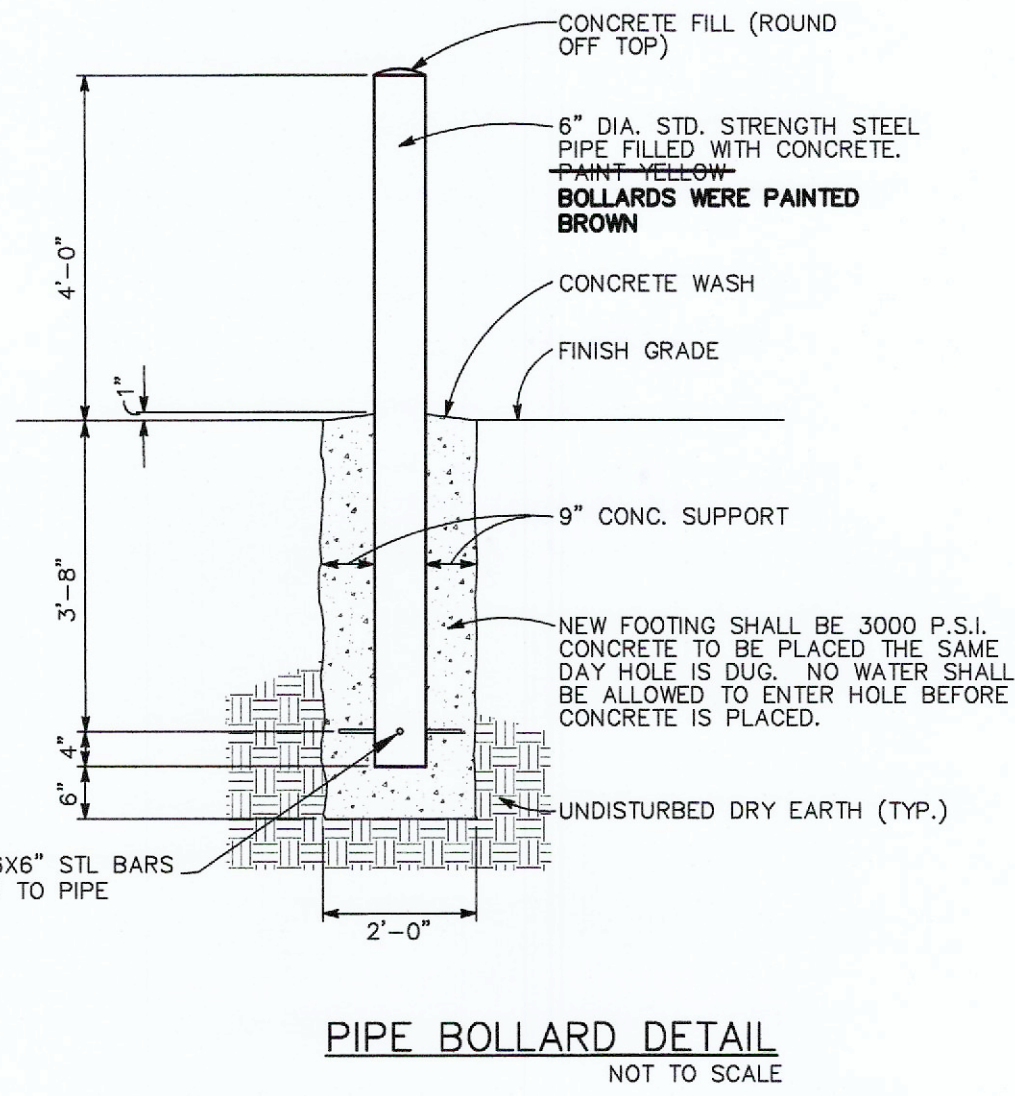
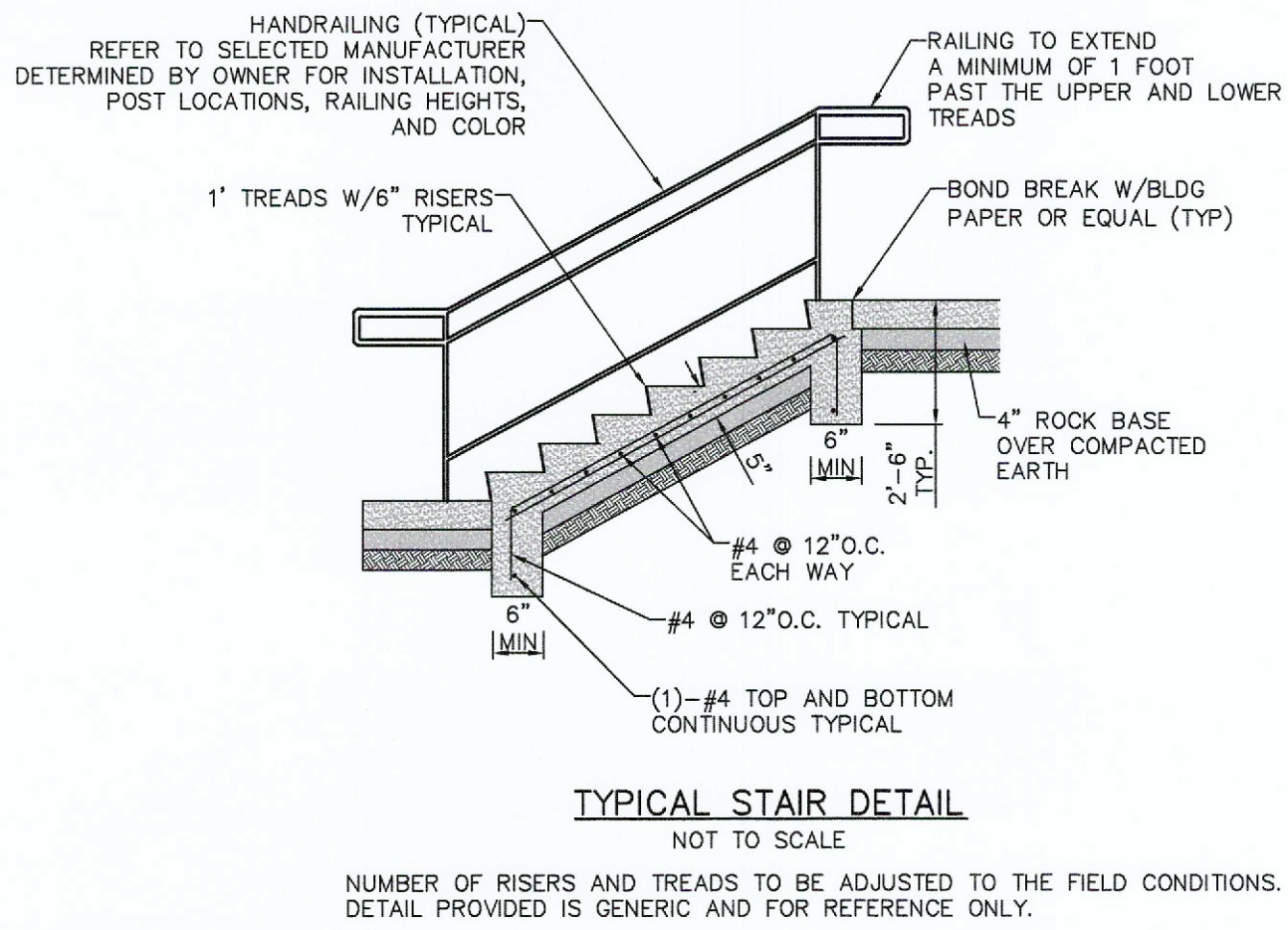
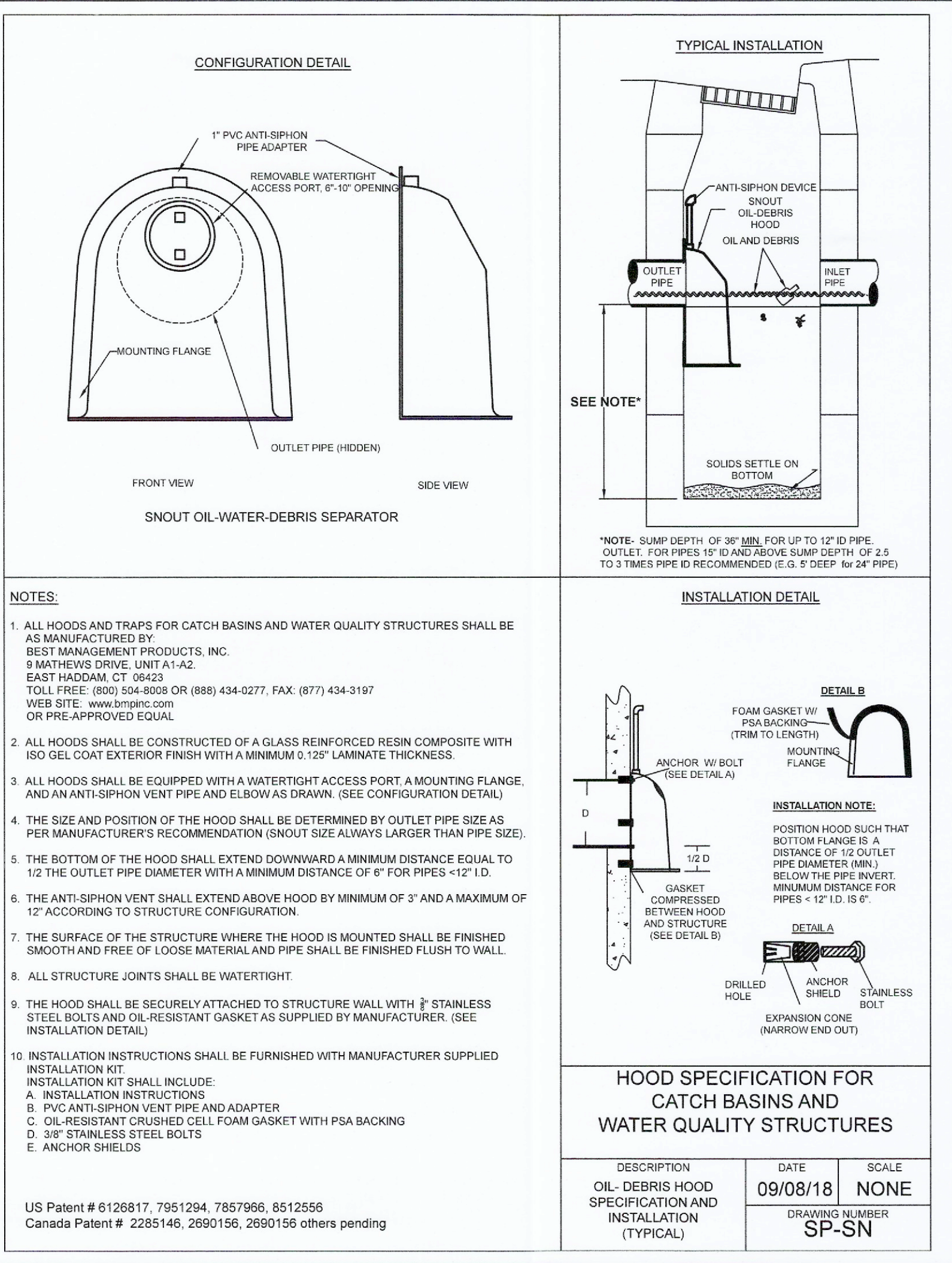
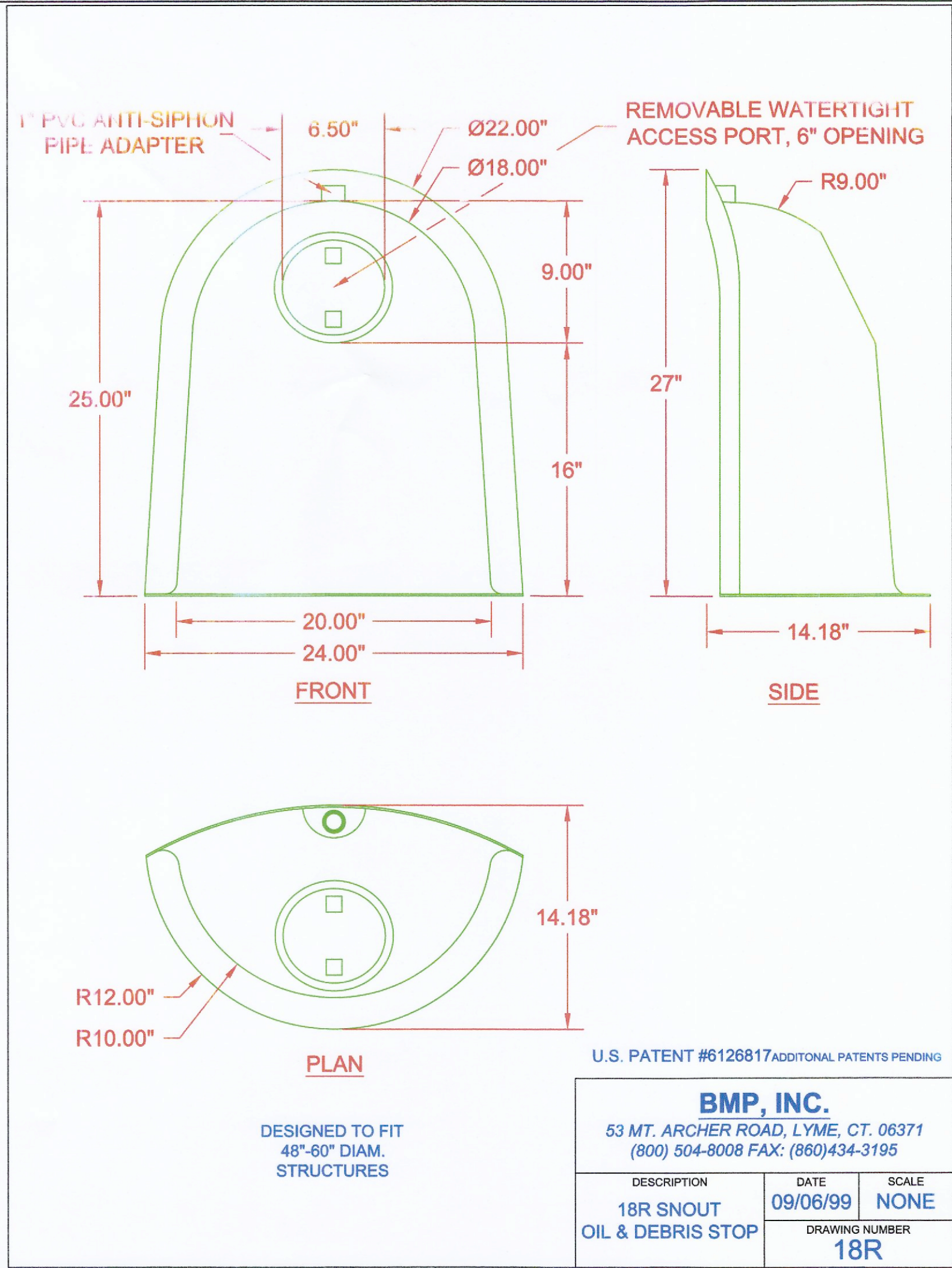
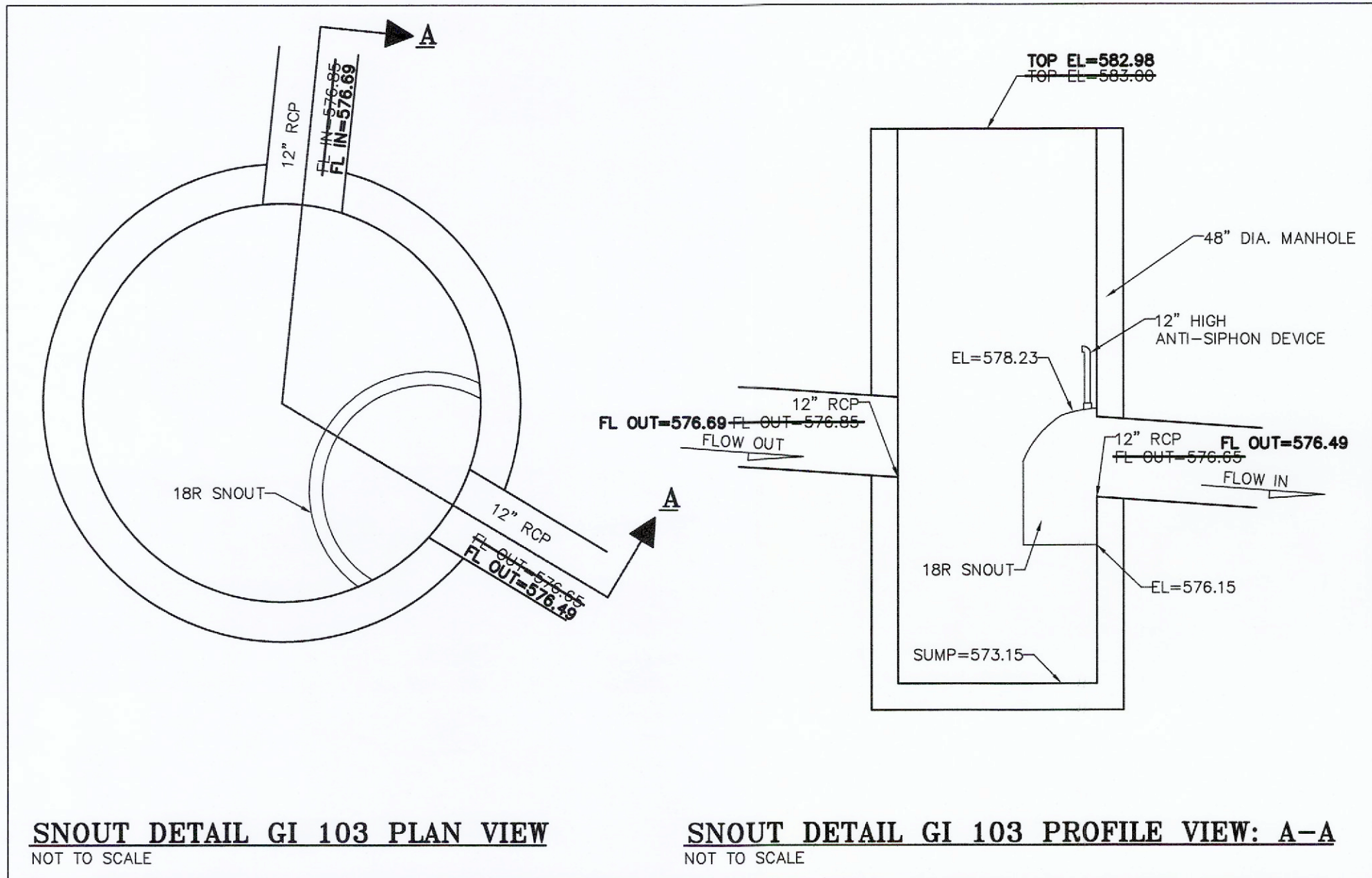
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