

EFFINGHAM COUNTY B.O.E.

GUYTON

MAINTENANCE FACILITY

GEORGIA

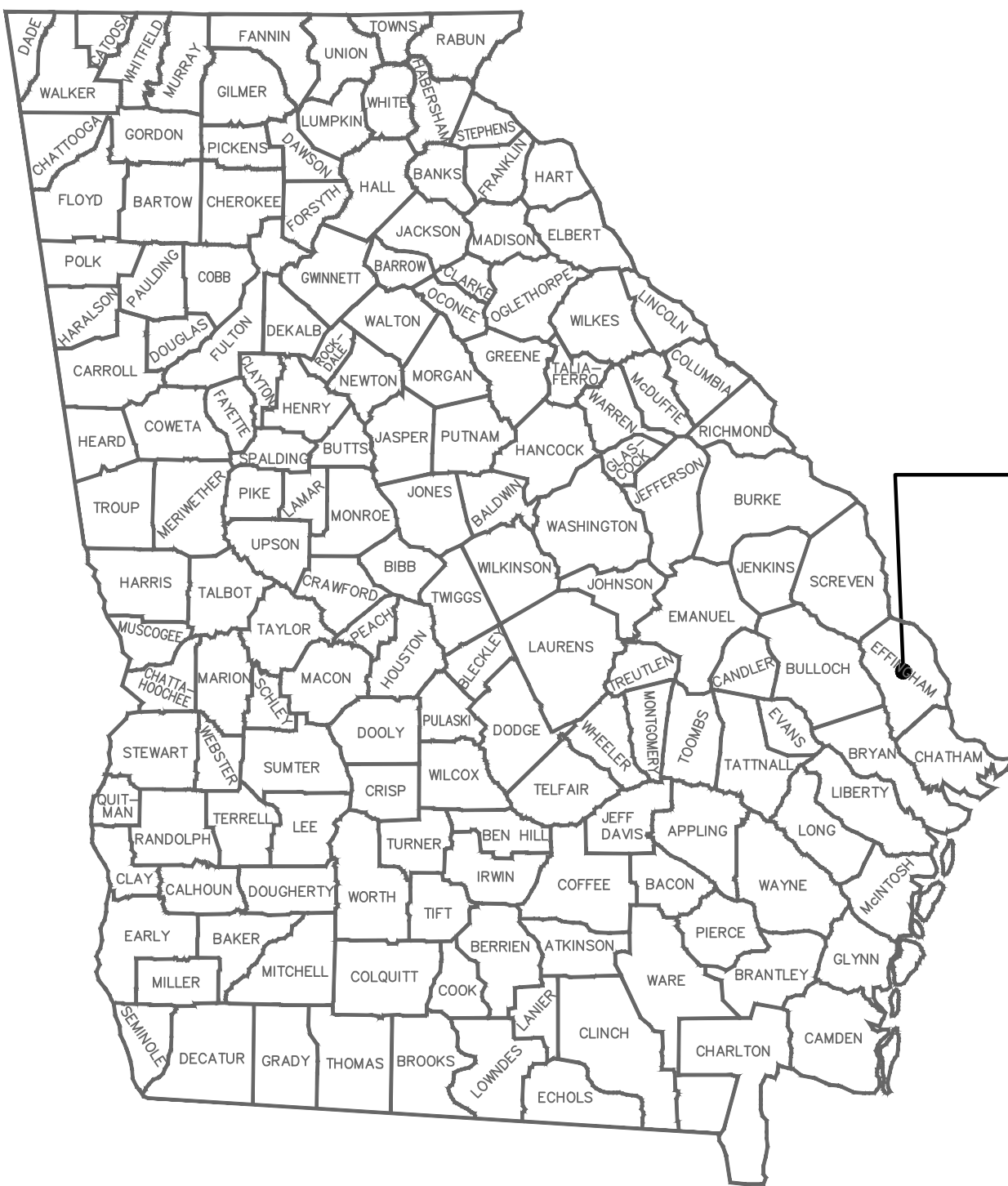
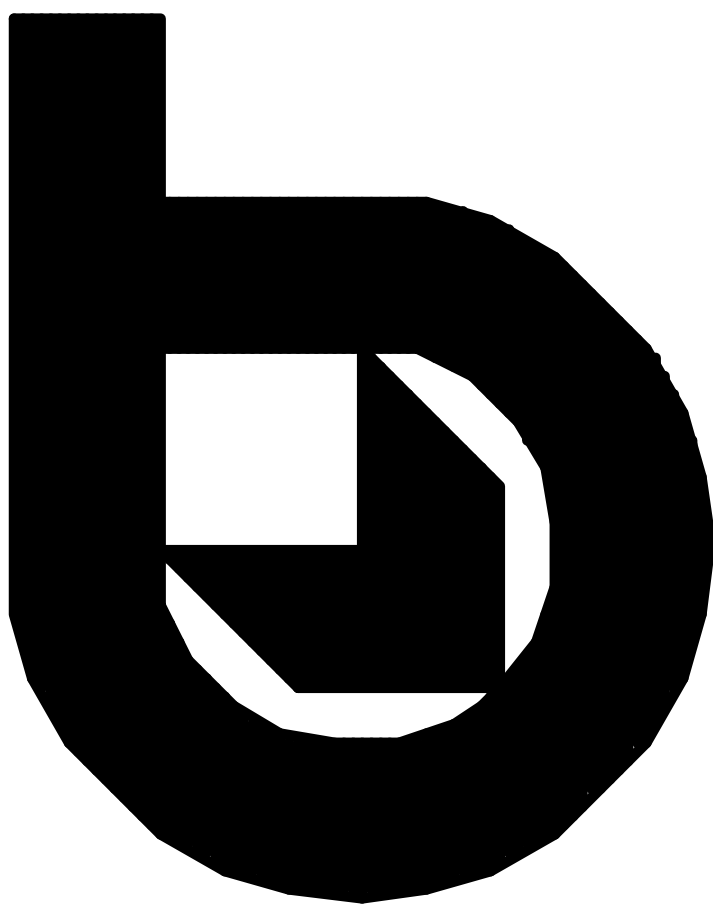
EFFINGHAM COUNTY BOARD OF EDUCATION

405 NORTH ASH STREET
SPRINGFIELD, GA 31329

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C990	OVERALL GRADING & DRAINAGE PLAN
C1000	OVERALL GRADING & DRAINAGE PLAN



EFFINGHAM
COUNTY

JAMES W. BUCKLEY & ASSOCIATES INC.

ARCHITECTS PLANNERS INTERIOR DESIGNERS CIVIL ENGINEERS

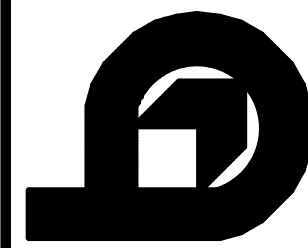
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GA. ENGINEERING & LAND SURVEYING
BOARD CORPORATE LICENSING NUMBER 002802



EFFINGHAM COUNTY B.O.E. MAINTENANCE FACILITY
EFFINGHAM COUNTY BOARD OF EDUCATION
JAMES W. BUCKLEY & ASSOCIATES, INC.
ARCHITECTS PLANNERS INTERIOR DESIGNERS CIVIL ENGINEERS

GUYTON

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CIVIL ENGINEERING DEPARTMENT
114 NORTH GREEN STREET
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(478) 237-6467
(478) 237-3197 FAX

ISSUED FOR
BID
12-20-2024
22-065
PROJECT NO.

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GENERAL NOTES

- EXISTING CONDITIONS BASED UPON A FIELD SURVEY PERFORMED BY EMC ENGINEERING SERVICES, INC. DATED JULY 14, 2023
- THIS PROPERTY IS BEING USED FOR THE CONSTRUCTION OF MAINTENANCE FACILITY
- CONTOUR INTERVAL IS 1'. VERTICAL DATUM IS BASED ON N.A.S.D. 1988.
- THIS PROPERTY IS LOCATED AT HODGEVILLE RD, CITY OF GUYTON, EFFINGHAM COUNTY, GA.
- STREET ADDRESS: HODGEVILLE ROAD, GUYTON, GEORGIA 31312.
- THE ZONING FOR THIS PROPERTY IS ED.
- THIS PARCEL CONTAINS A TOTAL OF **24.991** ACRES, DISTURBED AREA IS **11.62** ACRES.
- CONTRACTOR TO VERIFY BENCHMARKS, INVERTS, AND FINISH FLOORS PRIOR TO SETTING FINISH GRADES.
- DEMOLITION TO INCLUDE ALL UTILITIES, STRUCTURES, AND VEGETATION INSIDE NOTED AREA.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH AND MAINTAIN TRAFFIC CONTROL DEVICES DURING CONSTRUCTION.
- ANY BENCHMARKS TO BE DEMOLISHED WILL BE RELOCATED TO A PERMANENT STRUCTURE OUTSIDE CONSTRUCTION AREA PRIOR TO START OF CONSTRUCTION BY GA R.L.S.
- OWNER / DEVELOPER:
EFFINGHAM COUNTY BOARD OF EDUCATION
405 NORTH ASH ST.
SPRINGFIELD, GA 31329
24 HOUR CONTACT: RON WOMACK
PH # 912-626-1993
- THERE ARE NO KNOWN STATE WATERS PRESENT ON THIS SITE WHICH REQUIRE A (25) FOOT MINIMUM UNDISTURBED BUFFER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH AND MAINTAIN LIMITS OF CONSTRUCTION THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR THE DISTURBANCE OF OR DAMAGE TO AREAS OUTSIDE THESE LIMITS.
- THERE ARE KNOWN WETLANDS LOCATED ON THIS SITE. ALL WETLANDS ARE UNDER THE JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS. DISTURBANCE OF THESE AREAS WITHOUT PROPER AUTHORIZATION IS SUBJECT TO PENALTY BY LAW. THE APPLICANT WILL FIRST OBTAIN A WETLAND ALTERATION SECTION 404 PERMIT FROM THE CORPS OF ENGINEERS PRIOR TO DISTURBING ANY JURISDICTIONAL WETLANDS.
- DISPOSAL OF DEBRIS: NO MATERIALS ARE TO BE BURIED ON-SITE. CLEARING AND GRUBBING DEBRIS MAY BE BURNED WITH THE APPROPRIATE PERMIT FROM THE LOCAL AUTHORITY. CONSTRUCTION MATERIALS MUST BE TAKEN TO A STATE APPROVED LAND FILL.
- THIS PARCEL IS NOT IN A FLOOD HAZARD AREA ACCORDING TO FIRM. COMMUNITY NUMBER 13103C0360E EFFECTIVE MARCH 16, 2015.

SITE PLAN NOTES

- ALL SIGNAGE SHALL CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
- AT LOCATIONS OF CURB AND GUTTER, DIMENSIONS GIVEN TO FACE OF CURB, DIMENSIONS AND CURVE DATA AT OTHER LOCATIONS GIVEN TO EDGE OF PAVEMENT.
- CURVE RADIUS AND DIMENSIONS FOR STREETS AND DRIVES ARE GIVEN TO CENTERLINE OF DRIVE.
- ALL STRIPING IN RIGHT-OF-WAY SHALL BE THERMO-PLASTIC.
- COORDINATES ON BUILDING CORNERS ARE FOR ORIENTATION ONLY.
- ALL ON SITE CURB AND GUTTER SHALL BE 18" STANDARD CURB AND GUTTER INSIDE GEORGIA D.O.T. RIGHTS-OF-WAY SHALL BE 30" STANDARD. LOCATE EXPANSION JOINTS AT MAXIMUM INTERVALS OF (30) FEET AND AT EVERY CHANGE IN DIRECTION.
- PROVIDE EXPANSION JOINTS BETWEEN CONCRETE PAVEMENT AND ALL FIXED STRUCTURES. (I.E. MANHOLES, CLEANOUTS, SIDEWALKS)
- LOCATE CONTRACTION JOINTS AT MAXIMUM INTERVALS OF (10) FEET.
- NO WORK IS ALLOWED WITHIN A GEORGIA D.O.T. RIGHT-OF-WAY WITHOUT AN APPROVED PERMIT AND ESCROW ACCOUNT. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY TRAFFIC CONTROL DEVICES.

GRADING & DRAINAGE NOTES

- TIE ALL NEW CONTOURS AND GRADES INTO EXISTING WITH SMOOTH, UNIFORM AND EVEN SLOPES TO ENSURE THAT WATER DRAINS AWAY FROM BUILDINGS.
- ELEVATIONS ARE BASED ON N.A.S.D. 1988.
- ROOF DRAIN LINES AND DOWN SPOUT COLLECTION LINES TO BE RUN ON 1% MINIMUM SLOPE UNLESS OTHERWISE INDICATED.
- ALL FLARED END SECTIONS SHALL BE REINFORCED CONCRETE.
- ALL HEADWALLS AND FLARED END SECTIONS SHALL BE REINFORCED PRE-CAST OR CAST IN PLACE MAY BE USED AT CONTRACTOR'S DISCRETION.
- ALL ROOF DRAINS AND DOWNSPOUTS SHALL BE CONNECTED TO UNDERGROUND STORM DRAINAGE COLLECTION SYSTEM. SEE ARCHITECTURAL PLAN FOR EXACT LOCATIONS OF DOWNSPOUTS. SEE PLUMBING PLAN FOR ROOF DRAIN LOCATIONS.
- ALL STORM DRAINAGE PIPE LOCATED INSIDE A PUBLIC RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO D.O.T. SPECIFICATIONS. ALL STORM DRAINAGE PIPE LOCATED WITHIN SITE LIMITS SHALL BE HDPE UNLESS NOTED OTHERWISE.
- FINISH FLOOR OF BUILDINGS IS 12.20', GRADE IMMEDIATELY OUTSIDE THE BUILDING SHALL BE A MINIMUM OF (12) INCHES BELOW FINISH FLOOR ELEVATION UNLESS OTHERWISE NOTED BY SPOT ELEVATIONS.
- DASHED AREAS THAT ARE CALLED OUT AS FUTURE BUILDING ADDITION SHALL BE COMPACTED TO 98% STD. PROCTOR TO WITHIN 12" OF FINISHED GRADE.
- STORM WATER MANAGEMENT FOR THIS PROJECT IS PROVIDED ON-SITE.
- WETLAND CERTIFICATION: THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING:
1) THE NATIONAL WETLAND AND INVENTORY MAPS HAVE BEEN CONSULTED, AND,
2) THE APPROPRIATE PLAN SHEET DOES NOT INDICATE AREAS OF UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS.
- MAXIMUM CUT SLOPES SHALL BE 2 HORIZONTAL TO 1 VERTICAL. CONTINUOUS FILL SLOPES TEN (10) FEET IN HEIGHT OR LESS MAY BE 2 HORIZONTAL TO 1 VERTICAL. ALL CONTINUOUS SLOPES THAT EXCEED TEN (10) FEET IN HEIGHT MUST BE 3 HORIZONTAL TO 1 VERTICAL UNLESS:
(A) A MECHANICALLY ENGINEERED STABILIZED SLOPE IS APPROVED BY THE EFFINGHAM COUNTY DIRECTOR OF ENGINEERING, OR
(B) THE DESIGNED AND CONSTRUCTED SLOPES ARE CERTIFIED BY A REGISTERED ENGINEER EXPERIENCED IN GEOTECHNICAL ENGINEERING AND LICENSED IN THE STATE OF GEORGIA.
- HDPE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-234 AND AASHTO M17, TYPE S & D. CONNECTIONS SHALL USE A RUBBER GASKET WHICH CONFORMS TO ASTM F-471. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM RECOMMENDED PRACTICE D-2321, AASHTO SECTION 30, OR WITH SECTION 550 IN THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION ROADS AND BRIDGES.
- ALL RCP PIPE JOINTS SHALL BE BELL & SPIGOT TYPES WITH A RUBBER GASKET CONFORMING TO ASTM C-443. THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AASHTO M17-10 AND/ OR ASTM C-16. CLASS OF PIPE AND WALL THICKNESS SHALL BE IN ACCORDANCE WITH 1030-D, GEORGIA DOT SPECIFICATIONS, TABLE NO. 1. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.
- MODULAR RETAINING WALL DESIGN MUST BE SUBMITTED TO THE EFFINGHAM COUNTY DEPARTMENT OF ENGINEERING FOR APPROVAL PRIOR TO CONSTRUCTION PLAN APPROVAL. WALL DESIGN MUST INCLUDE DETAILS AND SPECIFICATIONS THAT ARE SITE SPECIFIC AND MUST BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF GEORGIA. ALL WALLS GREATER THAN FOUR (4) FEET IN HEIGHT SHALL INCLUDE A FENCE OR HANDRAIL ALONG THE TOP.
- ALL UNDISTURBED BUFFERS SHALL BE IDENTIFIED WITH ORANGE, FOUR FOOT TREE-SAVE FENCING PRIOR TO ANY LAND DISTURBANCE (UDC SEC. 18-101).

GENERAL UTILITY NOTES

- ELEVATIONS ARE BASED ON N.A.S.D. 1988.
- EXISTING UNDERGROUND UTILITIES SHOWN ARE BASED ON AVAILABLE RECORDS AND FIELD EXAMINATION. THE POSITIONS ARE APPROXIMATE. THE CONTRACTOR SHALL INDEPENDENTLY DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK OR PURCHASING MATERIALS AND SHALL NOTIFY OWNERS REPRESENTATIVE OF ANY DISCREPANCIES OR UNCHARTED UTILITIES. THE CONTRACTOR SHALL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR THROUGH THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) WORKING DAYS NOTICE TO THE UTILITY COMPANY PRIOR TO EXCAVATION TO ALLOW TIME FOR EXISTING UTILITIES TO BE FLAGGED.
- COORDINATE ALL GAS CONNECTIONS WITH LOCAL GAS COMPANY.
- WHERE WATER LINES CROSS SANITARY SEWER LINES, WATER LINES SHALL BE PLACED 18"(MIN.) ABOVE SANITARY LINE. IF CLEARANCE IS LESS THAN 18", OR IF WATER LINE MUST BE BENEATH SANITARY SEWER, WATER AND SEWER LINES MUST BE D.I.P. AT THESE LOCATIONS AND WATER LINE MUST BE ENCASED WITH CONCRETE.
- CONTRACTOR TO COORDINATE WITH ALL LOCAL UTILITY COMPANIES WHEN RELOCATING ANY EXISTING UTILITIES OR INSTALLING NEW UTILITIES.
- SPRINKLER RISER LOCATION(S) TO BE COORDINATED WITH THE ARCHITECTURAL AND PLUMBING PLANS.
- NO LANDSCAPING MAY BE PLACED WITHIN (1) FEET OF ANY UNDERGROUND UTILITY.
- TRENCH WIDTHS SHALL BE NO LESS THAN (24) INCHES PLUS DIAMETER OF PIPE.
- ALL MATERIALS, INCLUDING FITTINGS, SHALL BE INSPECTED BY LOCAL AUTHORITY AND ARCHITECT'S REPRESENTATIVE PRIOR TO INSTALLATION.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A MARKED-UP SET OF DRAWINGS THAT INCLUDE AS-BUILT CONDITIONS. AS-BUILT OR RECORD DRAWINGS WILL BE REQUIRED FOR FINAL RELEASE OF THE PROJECT.
- NO UTILITY WORK IS ALLOWED WITHIN A GEORGIA D.O.T. RIGHT-OF-WAY WITHOUT AN APPROVED PERMIT.

SANITARY SEWER NOTES

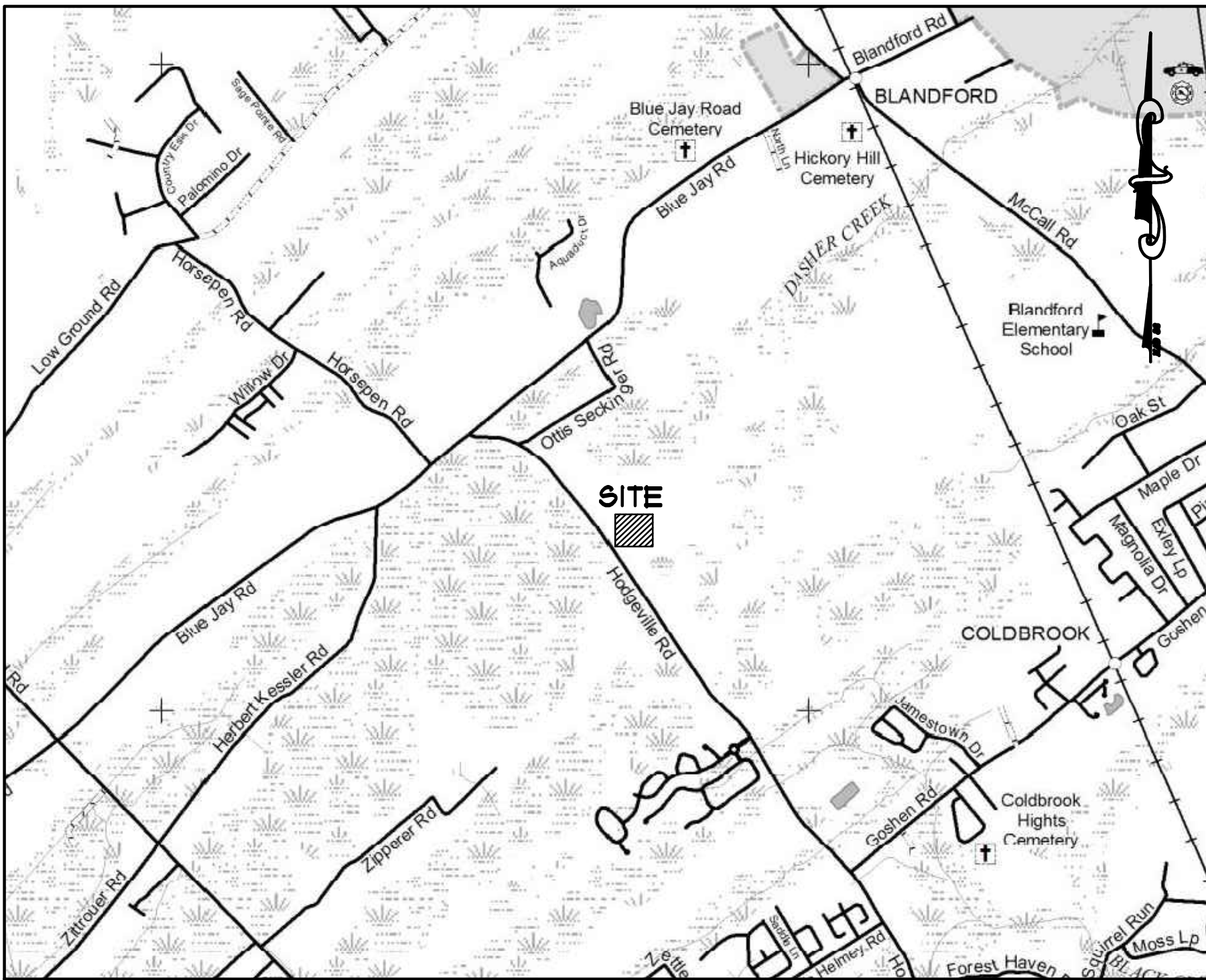
- CONTRACTOR TO COORDINATE SEWER CONNECTIONS WITH LOCAL GOVERNING AUTHORITY.
- MANHOLE TOPS TO BE FLUSH IF LOCATED IN PAVEMENT AND 3" ABOVE FINISHED GRADE IF LOCATED OFF PAVEMENT.
- DUCTILE IRON PIPE IS REQUIRED FOR SANITARY SEWER LINES:
A. LINES HAVE LESS THAN (3) FEET OF COVER.
B. WHEN LINE CROSSES UNDER STORM SEWER.
C. WHEN LINE CROSSES STORM SEWER LINE WITH LESS THAN (2) FEET OF CLEARANCE BETWEEN THE TWO.
D. WHEN LINE IS COVERED BY (16) FEET OF FILL OR MORE.
E. IN WET OR UNSTABLE SOIL CONDITIONS WHERE BEDDING IS DIFFICULT.
F. AT OUTSIDE DROP ON EXISTING MANHOLES.
- CONNECTIONS TO EXISTING MANHOLES SHALL BE CORED AND BOOTED.
- OUTSIDE DROPS SHALL BE INSTALLED ON MANHOLES WHERE INVERT OF SEWER LINE ENTERS THE MANHOLE AT (18) INCHES OR MORE ABOVE INVERT OF THE MANHOLE.
- CLEANOUTS SHOWN ARE THOSE MINIMUM NEEDED TO PROVIDE ACCESS TO SANITARY LINE. CONTRACTOR TO PROVIDE ADDITIONAL CLEANOUTS AT MINIMUM INTERVALS OF (50) FEET ON SEWER LATERALS TO THE BUILDING.

WATER SYSTEM NOTES

- CONTRACTOR TO INSTALL ALL BENDS AND TEES NECESSARY FOR WATER LINE. ALL WATER LINES WILL BE BURIED WITH A TRACER WIRE WHICH IS TO BE BROUGHT UP AT ALL GATE VALVE LOCATIONS.
- COORDINATE ALL WATER CONNECTIONS WITH LOCAL WATER DEPARTMENT.
- TWO CUBIC FEET OF 57 STONE IS REQUIRED AT WET TAPS, TEES, BENDS, AND VALVE LOCATIONS. ALL FIRE HYDRANTS MUST HAVE FOUR CUBIC FEET.
- DUCTILE IRON PIPE IS REQUIRED FOR WATER LINES:
A. LINES HAVE LESS THAN THREE (3) FEET OF COVER.
B. WHEN LINES CROSS UNDER SANITARY OR STORM LINE.
C. WHEN LINE CROSSES SANITARY OR STORM SEWER LINE WITH LESS THAN TWO (2) FEET OF CLEARANCE BETWEEN THE TWO.
D. WHEN LINE PASSES LATERALLY WITHIN ONE (1) FOOT OF SANITARY STRUCTURE.
E. WHEN LINE IS COVERED BY (16) FEET OF FILL OR MORE.
F. IN WET OR UNSTABLE SOIL CONDITIONS WHERE BEDDING IS DIFFICULT.
- CONCRETE VALVE MARKERS SHALL BE INSTALLED WITHIN (2) FEET OF ALL GATE VALVE LOCATIONS.
- WATER MAIN DEPTHS FOR 2"-8" LINES SHALL BE A MINIMUM OF (3) FEET FROM TOP OF THE PIPE TO FINISH GRADE. WATER MAIN DEPTHS FOR 10"-12" LINES SHALL BE NO LESS THAN (4') FROM TOP OF THE PIPE TO FINISH GRADE UNLESS OTHERWISE SPECIFIED.
- ALL MECHANICAL JOINT GLANDS SHALL BE MEGA LUG TYPE.
- ALL GATE VALVE BOXES SHALL BE ADJUSTABLE TYPE.
- MINIMUM (24) HOUR NOTICE SHALL BE GIVEN PRIOR TO FLUSHING, CHLORINATING, AND PRESSURE TESTING OF WATER LINES.
- GATE VALVES AND TEES SHALL NOT BE INSTALLED UNDER PAVEMENT OR CURBING UNLESS SPECIFICALLY NOTED ON DRAWINGS.
- EXISTING WATER PRESSURE AND FLOW DATA:
STATIC PRESSURE: 41 PSI
RESIDUAL PRESSURE: 41 PSI
FLOW: 1000 GPM
EXISTING WATER LINE: 36"

FIRE SPRINKLER NOTES

- SPRINKLER SYSTEM SHALL CONFORM TO NFPA 13(L.E.).
- SIAMESE HYDRANT (FDC) SHALL BE BRASS. PIPING FROM SIAMESE HYDRANT TO SPRINKLER RISER SHALL BE (4) INCH DUCTILE IRON.
- 57 STONE TO BE INSTALLED AT BASE OF SIAMESE HYDRANT.
- POST INDICATOR VALVE SHALL BE INSTALLED MINIMUM OF FORTY (40) FEET FROM BLDG.
- SIAMESE HYDRANT SHALL BE PLACED A MINIMUM OF FIFTY (50) FEET AND A MAXIMUM OF ONE HUNDRED (100) FEET FROM NEAREST FIRE HYDRANT.
- STANDPIPES SHALL BE IN ACCORDANCE WITH NFPA 101: 12.4.5.12.



VICINITY MAP
NOT TO SCALE

LEGEND

HATCH PATTERNS & LINETYPES

	NEW STRUCTURE		STORM LINE
	NEW SIDEWALK		DOMESTIC WATER
	NEW CONCRETE SLAB/PAVING		DOWNSPOUT LINE
	NEW ASPHALT PAVING (LIGHT DUTY)		FORCE MAIN
	NEW ASPHALT PAVING (HEAVY DUTY)		FIRE WATER MAIN
	NEW ASPHALT PAVING (D.O.T)		GAS
	EXISTING WETLANDS		HOT WATER SUPPLY
	EXISTING BUILDINGS/STRUCTURES		IRRIGATION LINE
			LIMITS OF CONSTRUCTION
			OVERHEAD COMMUNICATIONS
			OVERHEAD POWER
			OVERHEAD TELEPHONE
			ROOF DRAIN LINE
			RECLAIMED WATER/RIGHT OF WAY
			SD1 - NON SENSITIVE
			SD1 - SENSITIVE
			STORM DRAIN
			TELEPHONE
			TREE PROTECTION
			UNDERGROUND COMMUNICATIONS
			UNDERGROUND POWER
			UNDERGROUND TELEPHONE
			UNDER DRAIN
			WATER LINE
			SEWER LINE
			CENTERLINE
			PROPERTY LINE
			NEW CHAIN LINK FENCE
			TREE LINE

SYMBOLS

WATER

- FIRE HYDRANT (FH)
- POST INDICATOR VALVE (PIV)
- FIRE DEPARTMENT CONNECTION (FDC)
- BACKFLOW PREVENTOR (BFP)
- WATER METER (WM)
- WATER VALVE (WV)

SEWER

- SANITARY SEWER MANHOLE (SSMH)
- CLEAN OUT (CO)

STORM

- JUNCTION BOX (JB)
- YARD DRAIN (YD)
- GRATE INLET (GI)
- INLINE DRAIN (ILD)
- CURB INLET (CI-A)
- CURB INLET (CI-BL)
- CURB INLET (CI-BR)
- CURB INLET (CI-C)
- FLARED END SECTION (FES)
- HEADWALL WINGS (HW-W)
- HEADWALL STRAIGHT (HW-S)
- OUTLET CONTROL STRUCTURE (OCS)

MISC. SYMBOLS

- BENCHMARK (BM)
- NEW SIGN
- HANDICAP SYMBOL
- WATER FLOW

EROSION

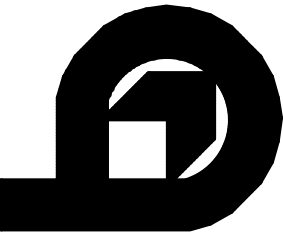
- D45 STORM DRAIN NUMBER
- Sd1-BB SOIL - STRUCTURAL
- Ds4 SOIL - VEGETATION
- 45 DEMOLITION NUMBER

MISC. UTILITIES

- GM GAS METER (GM)
- UP UTILITY POLE (UP)
- LP LIGHT POLE (LP)

ABBREVIATIONS

AASHTO - AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS	IPB - IRON PIN SET	W - WITH
ALT. - ALTERNATE	LP - LINEAR FOOT	W/O - WITHOUT
ARCH - ARCHITECTURAL	MAX. - MAXIMUM	W - WATER
ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS	MECH - MECHANICAL	WI - WEIR INLET
BMCF - BROKEN CONCRETE MONUMENT FOUND	N - NORTHING	
CB - CATCH BASIN	OC - ON CENTER	
CF - CUBIC FOOT	OCB - ON CENTER EACH WAY	
CI - CURB INLET	OD - OUTSIDE DIAMETER	
CMF - CONCRETE MONUMENT FOUND	OPT. - OPTIONAL	
CMF CORRUGATED METAL PIPE	PC - POINT OF CURVATURE	
CONT. - CONTINUOUS	PI - POINT OF INTERSECTION	
CY - CUBIC YARD	PP - POWER POLE	
DIA, D, Ø - DIAMETER	PSI - POUNDS PER SQUARE INCH	
DIP - DUCTILE IRON PIPE	PT - POINT OF TANGENT	
DOT - DEPARTMENT OF TRANSPORTATION	R - RADIUS	
DRL - DOWN SPOUT LINE	RC - REINFORCED CONCRETE PIPE	
E - EASTING	RDL - ROOF DRAIN LINE	
EWOC - EACH WAY ON CENTER	RE - RISE ELEVATION (TOP)	
FPEL - FINISHED FLOOR ELEVATION	R/L, R/O - RIGHT OF WAY	
FG - FINISHED GRADE	SD - STORM DRAIN	
FH - FIRE HYDRANT	SP - SQUARE FEET	
FPEL - FINISHED PAD ELEVATION	SS - SANITARY SEWER	
G - GENERATOR	SSMH - SANITARY SEWER MANHOLE	
GABC - GRADED AGGREGATE BASE COURSE	STPH - STORM MANHOLE	
GADOT - GEORGIA DEPT OF TRANSPORTATION	T - TRANSFORMER	
GI - GRATE INLET	TO - TOP OF CURB	
GPM - GALLONS PER MINUTE	TS - TOP OF GUTTER	
GT - GREASE TRAP	TB - THROAT ELEVATION	
HC - HANDICAP	TP - TOP OF PAVEMENT	
ID - INSIDE DIAMETER	TRW - TOP OF RETAINING WALL	
IE - INVERT ELEVATION	TU - TOP OF WALK	
IPB - IRON PIN FOUND	TYP - TYPICAL	

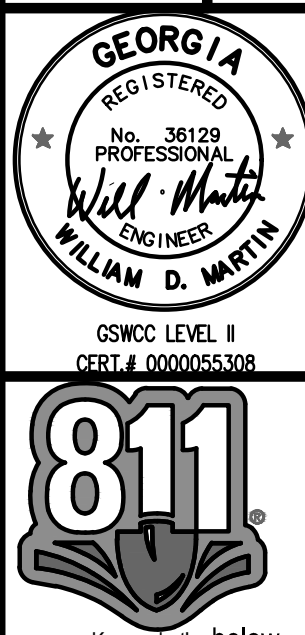


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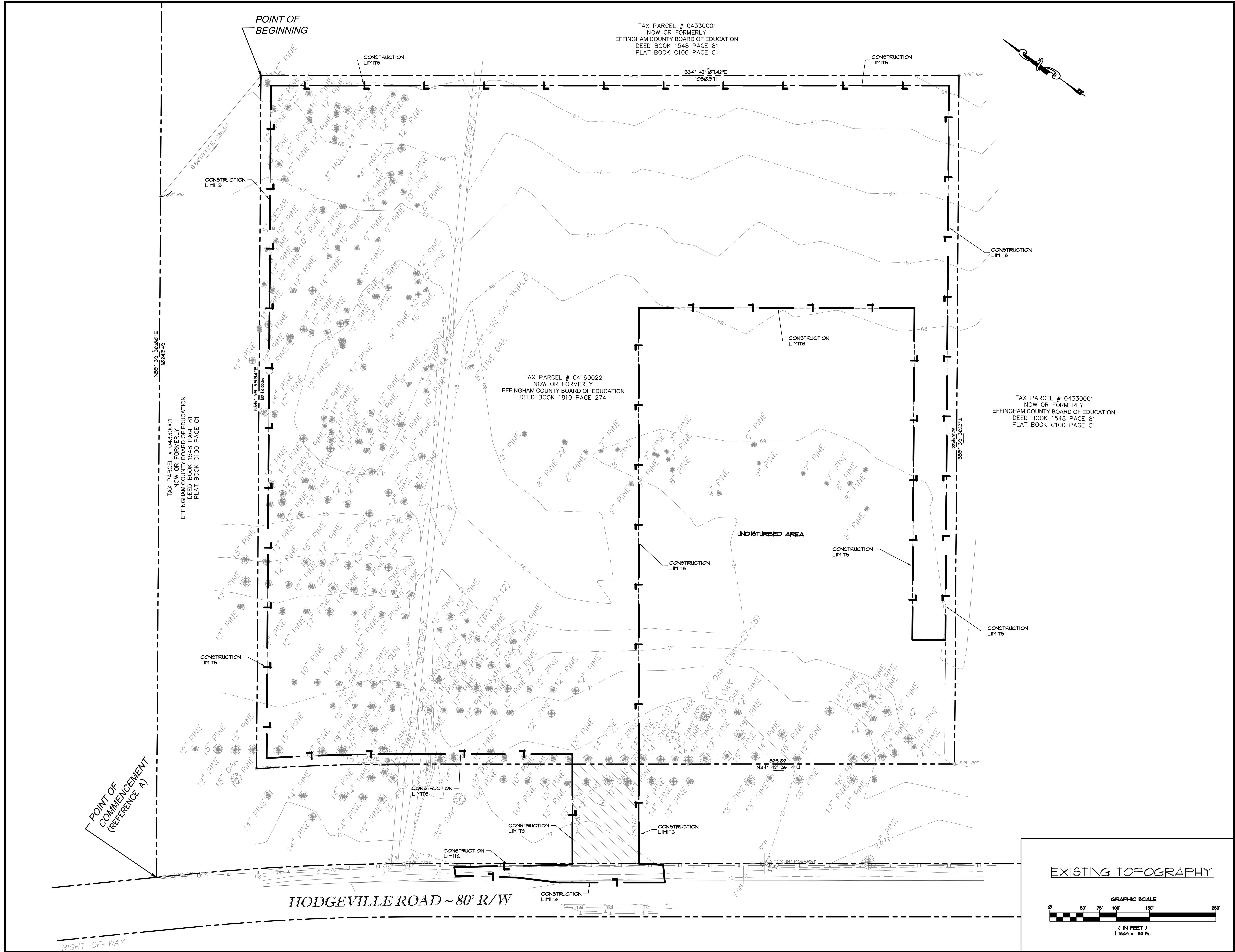
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GENERAL NOTES

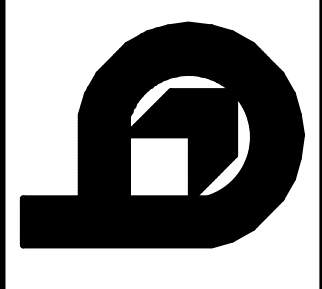
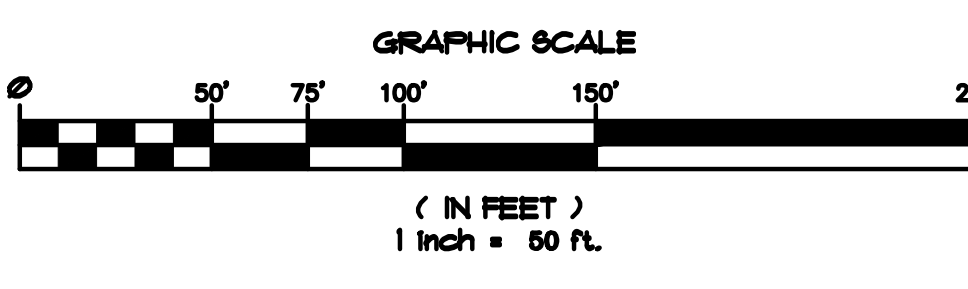
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EXISTING TOPOGRAPHY

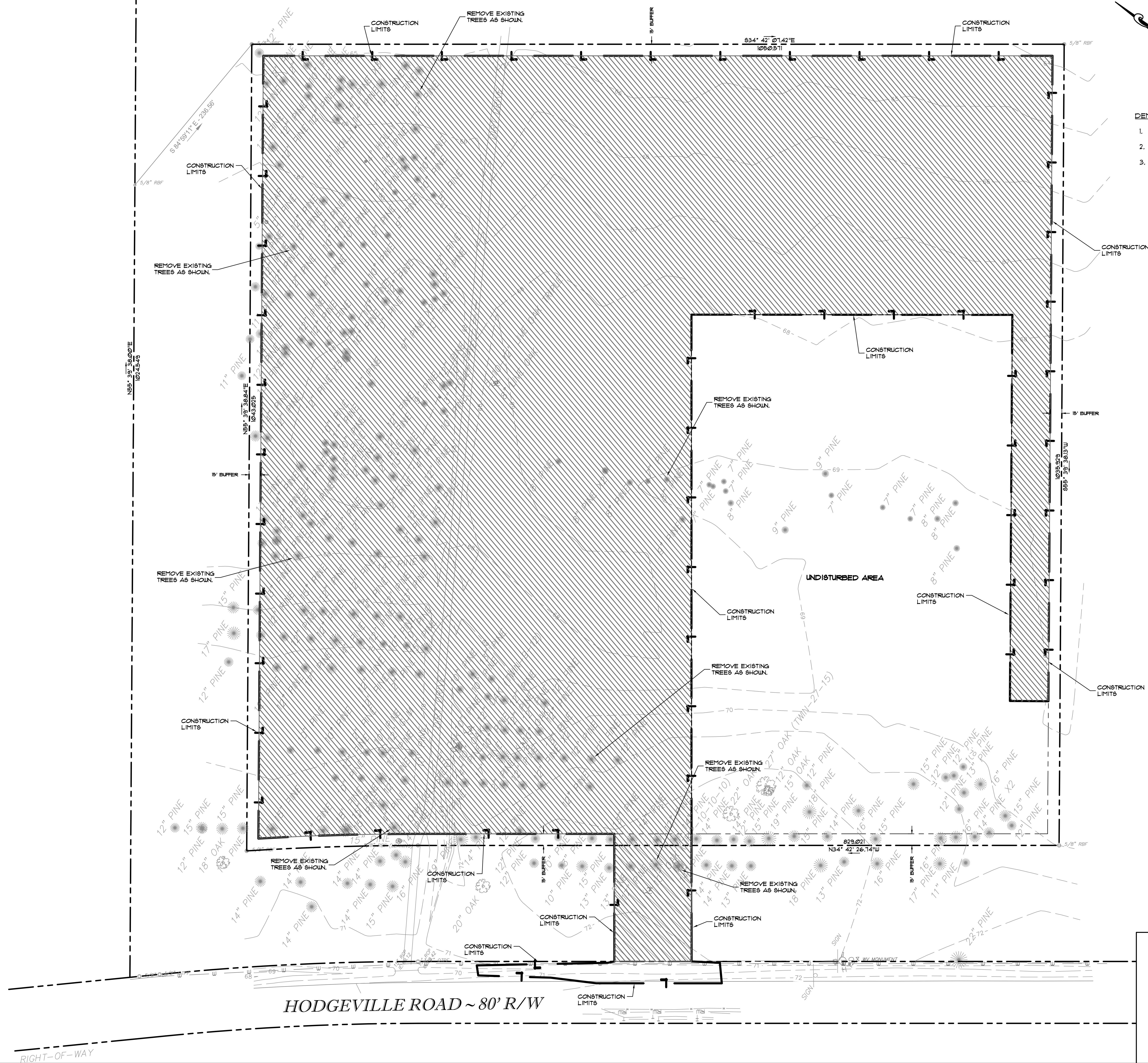


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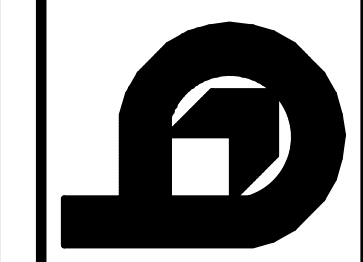
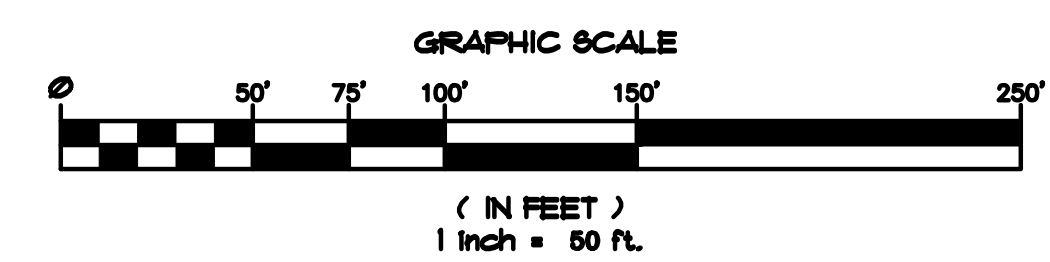
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DEMOLITION NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING TREES AND BUSHES AS SHOWN ON PLAN.
2. CONTRACTOR SHALL NOT DISTURB THE 15' BUFFER AS SHOWN ON PLAN.
3. CONTRACTOR TO COORDINATE WITH OWNER AND EFFINGHAM COUNTY PRIOR TO BEGINNING OF CONSTRUCTIONS.

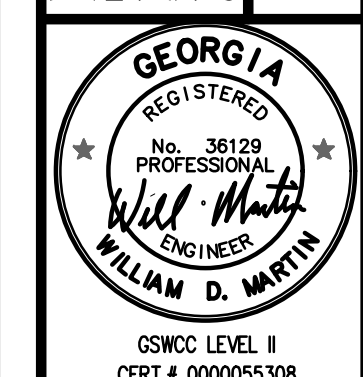
DEMOLITION PLAN



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DEMOLITION PLAN



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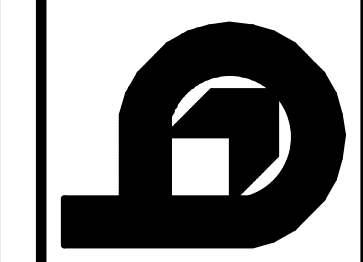
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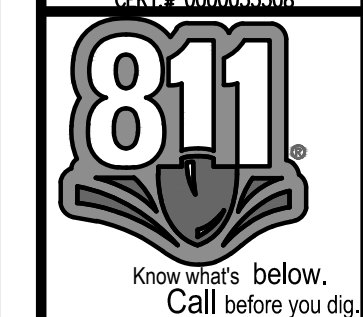
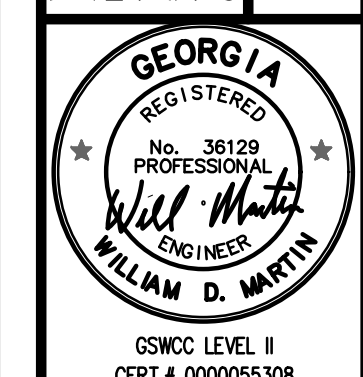


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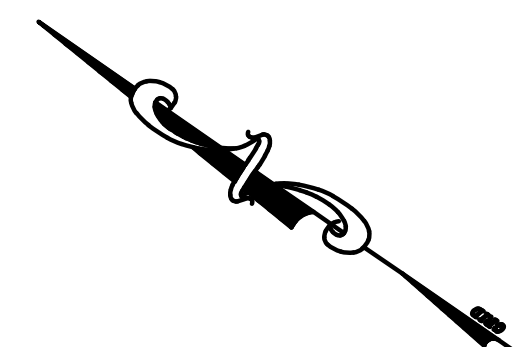
ENLARGED SITE PLAN

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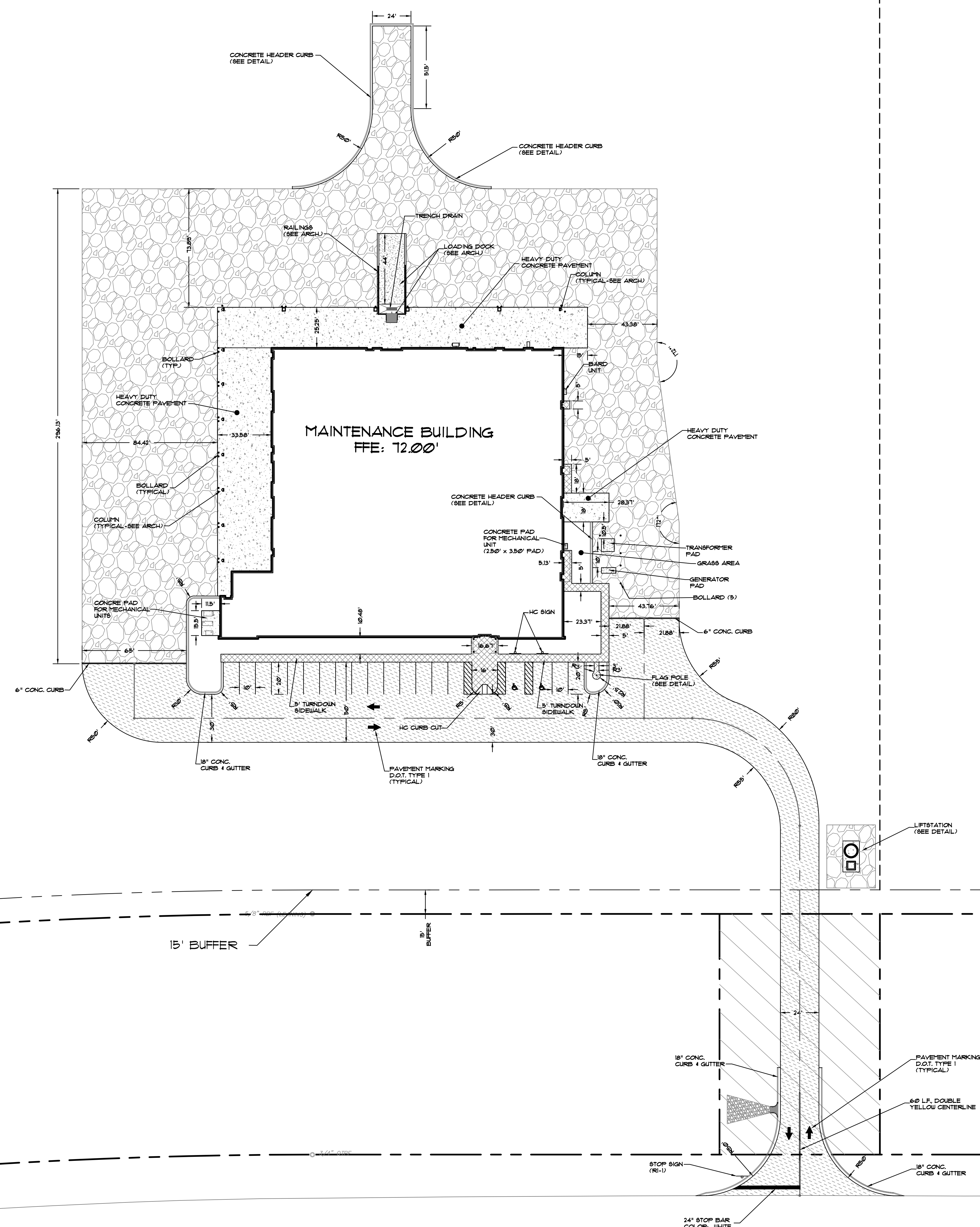


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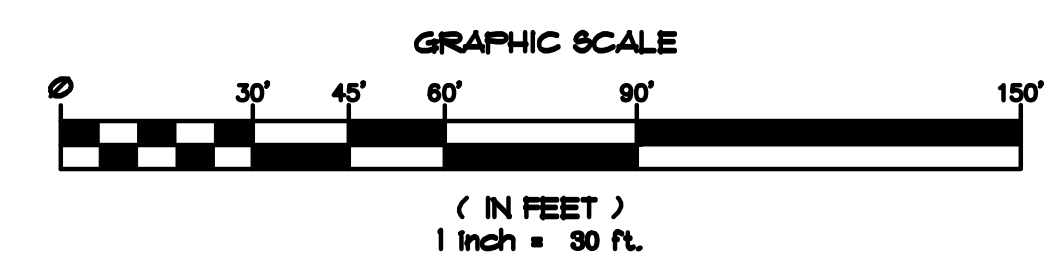
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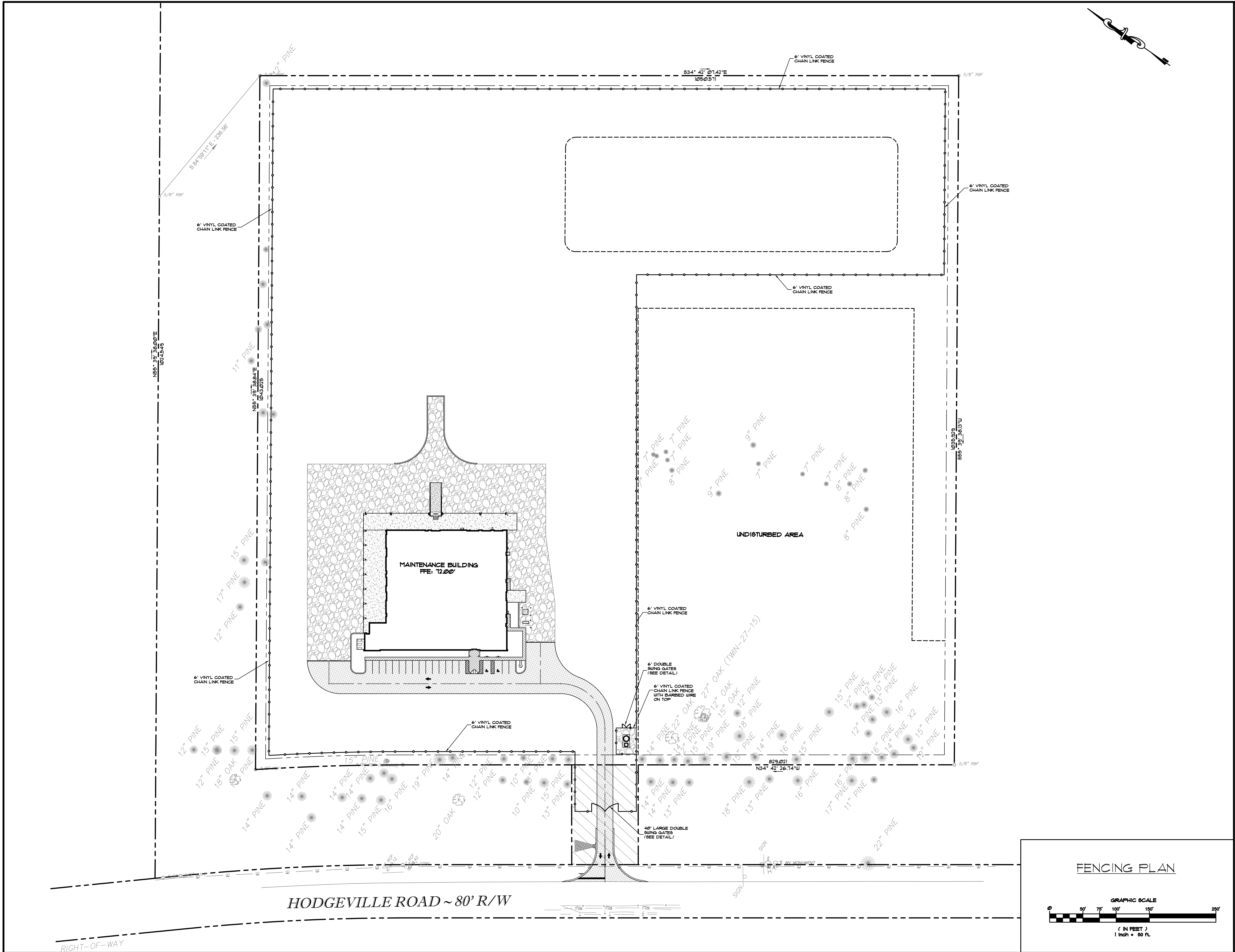
UNDISTURBED AREA

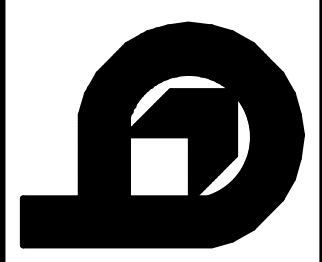


ENLARGED SITE PLAN



HODGEVILLE ROAD ~ 80' R/W





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REGISTERED
PROFESSIONAL
ENGINEER
William D. Martin
WILLIAM D. MARTIN
OSWOC LEVEL II
0001 # 0000000000

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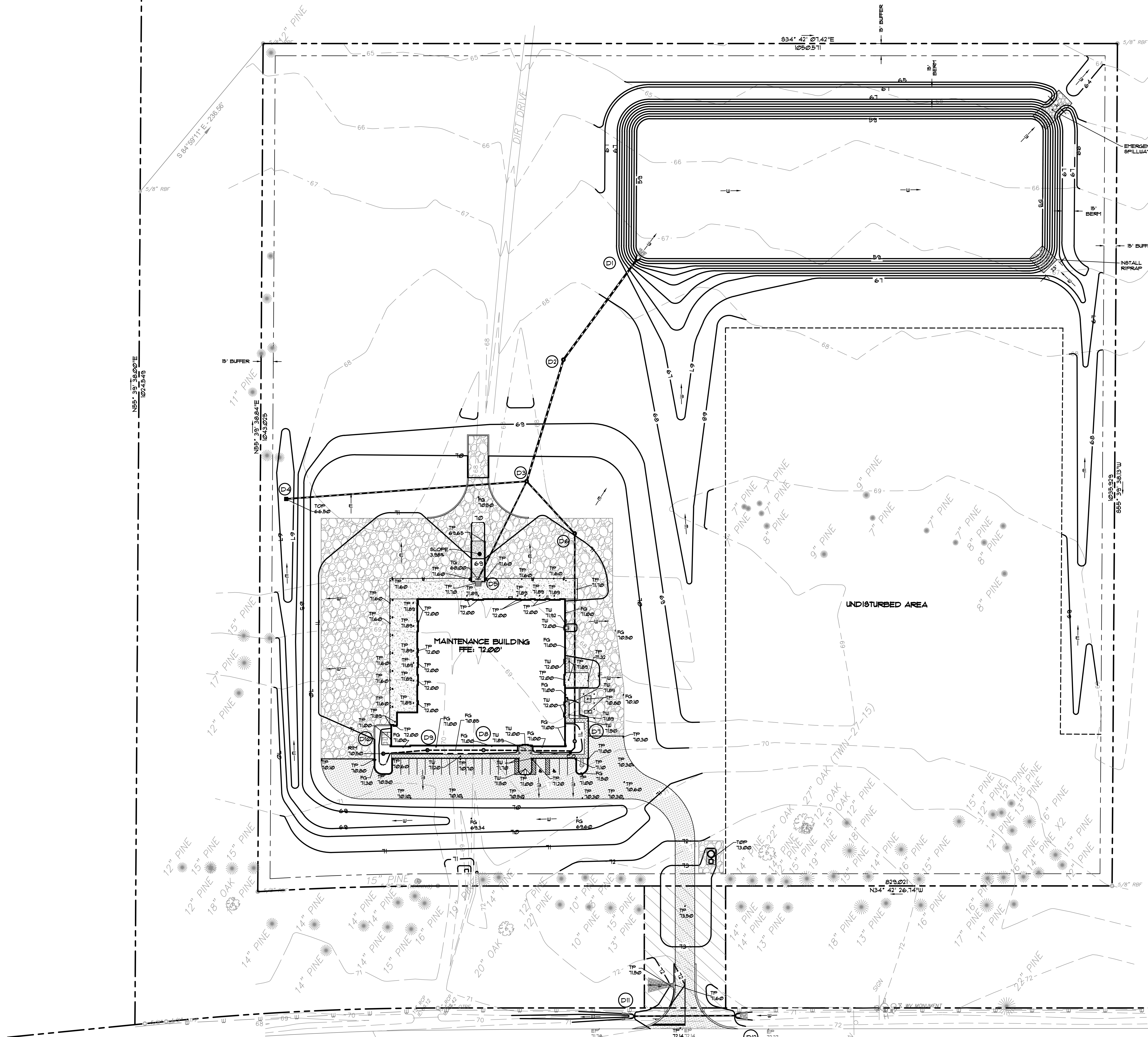
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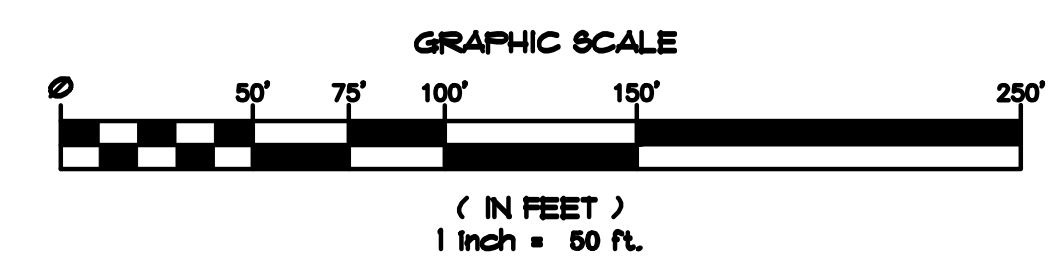
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FENCING PLAN

GRAPHIC SCALE
0 50' 75' 100' 150' 200'
(IN FEET)
1 inch = 50 ft.



OVERALL GRADING AND DRAINAGE PLAN



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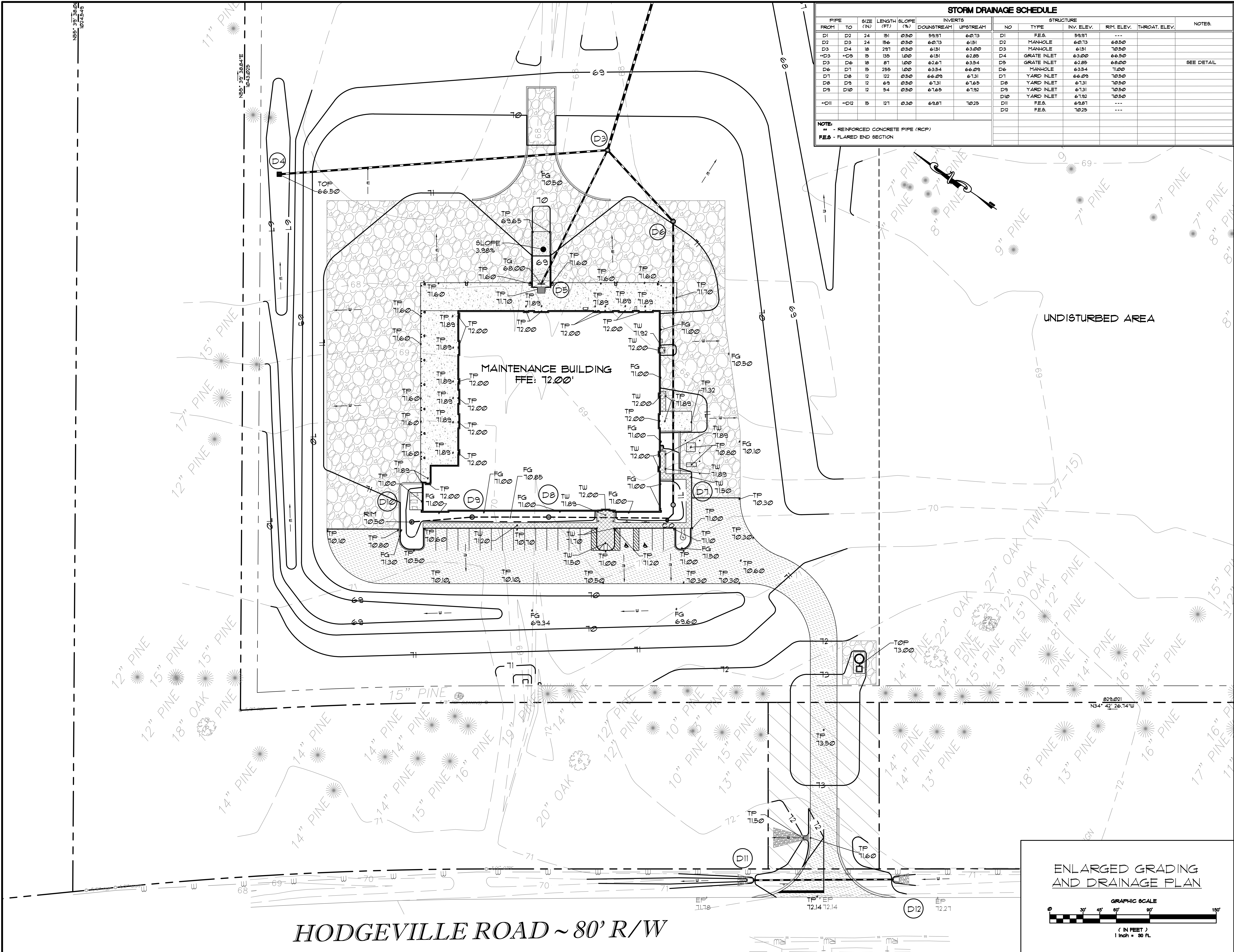
OVERALL GRADING AND DRAINAGE PLAN

GEORGIA REGISTERED PROFESSIONAL ENGINEER
WILLIAM D. MARTIN
No. 38129
EXPIRATION DATE 12/31/2024

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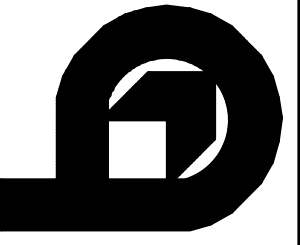
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STORM DRAINAGE SCHEDULE											
PIPE		SIZE (IN)	LENGTH (FT)	SLOPE (%)	INVERTS		STRUCTURE				
					DOWNSTREAM	UPSTREAM	NO	TYPE	INV. ELEV.	RIM. ELEV.	THROAT. ELEV.
D1	D2	24	151	0.50	59.91	60.13	D1	F.E.S.	59.91	---	
D2	D3	24	156	0.50	60.13	61.51	D2	MANHOLE	60.13	60.50	
D3	D4	18	291	0.50	61.51	63.00	D3	MANHOLE	61.51	10.50	
D4	D5	15	135	1.00	61.51	62.85	D4	GRATE INLET	63.00	66.50	
D5	D6	18	81	1.00	62.61	63.54	D5	GRATE INLET	62.85	68.00	SEE DETAIL
D6	D7	15	255	1.00	63.54	66.09	D6	MANHOLE	63.54	11.00	
D7	D8	12	121	0.50	66.09	67.31	D7	YARD INLET	66.09	10.50	
D8	D9	12	69	0.50	67.31	67.65	D8	YARD INLET	67.31	10.50	
D9	D10	12	54	0.50	67.65	67.92	D9	YARD INLET	67.31	10.50	
D10	D11	15	121	0.30	69.81	70.25	D10	YARD INLET	67.92	10.50	
D11	D12	15	121	0.30	69.81	70.25	D11	F.E.S.	69.81	---	
D12	D13	15	121	0.30	69.81	70.25	D12	F.E.S.	70.25	---	

NOTE:
R.C.P. - REINFORCED CONCRETE PIPE (RCP)
F.E.S. - FLARED END SECTION



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ENLARGED GRADING AND DRAINAGE PLAN

REGISTERED PROFESSIONAL ENGINEER
WILLIAM D. WATKINS
GEORGIA
CSWOC LEVEL II
CERT # 0000055306

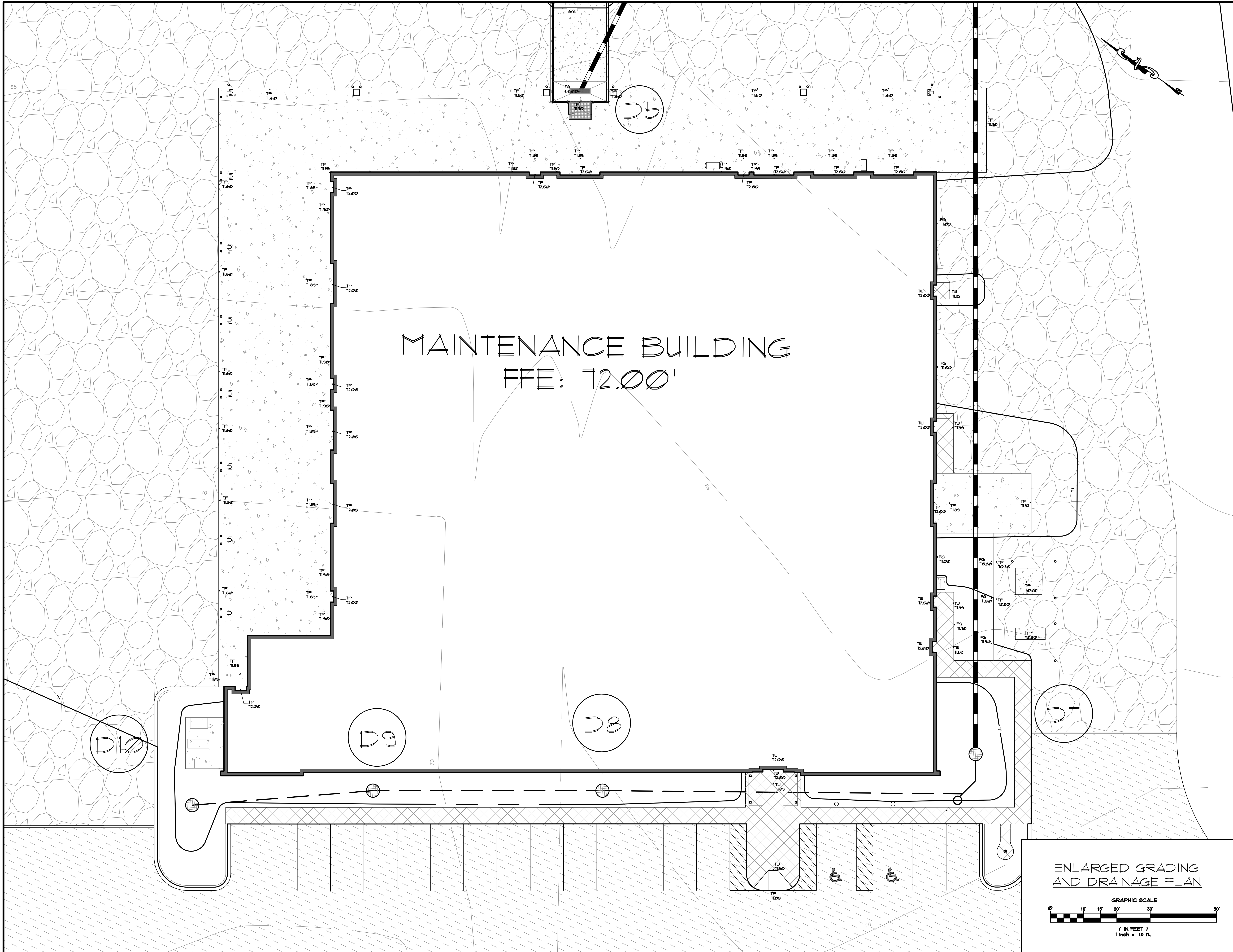
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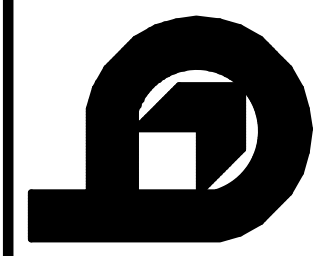
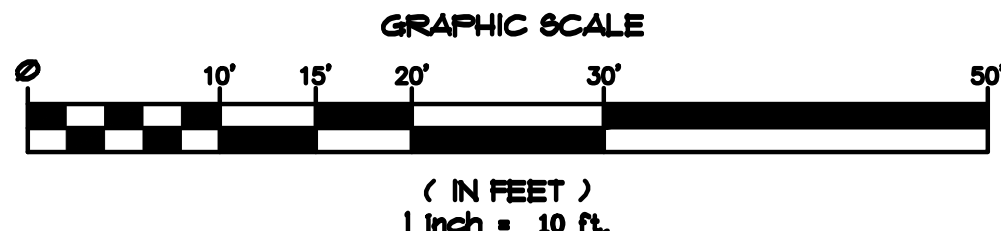
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ENLARGED GRADING
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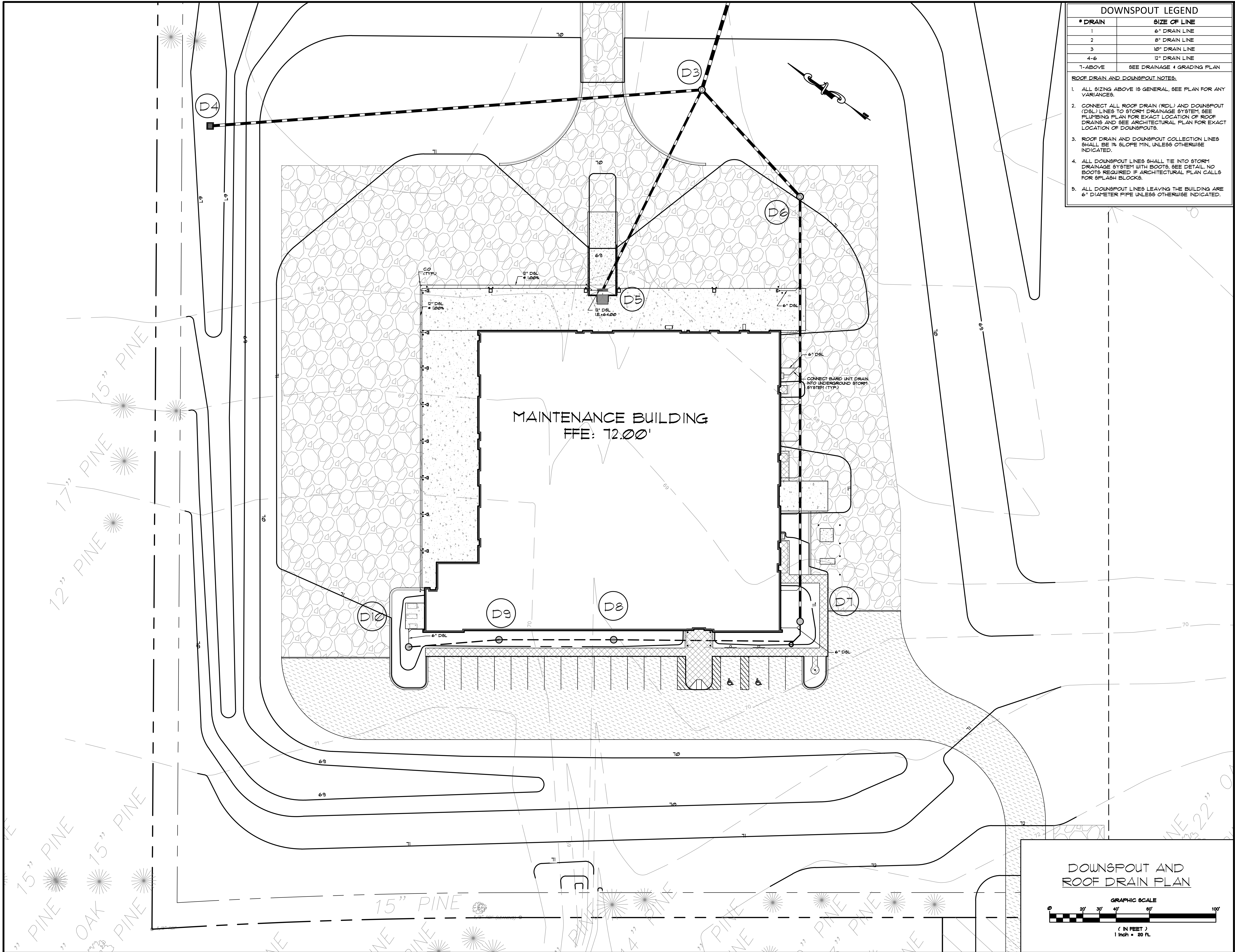


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DOWNSPOUT LEGEND

* DRAIN	SIZE OF LINE
1	6" DRAIN LINE
2	8" DRAIN LINE
3	10" DRAIN LINE
4-6	12" DRAIN LINE
7-ABOVE	SEE DRAINAGE & GRADING PLAN

ROOF DRAIN AND DOWNSPOUT NOTES:

1. ALL SIZING ABOVE IS GENERAL, SEE PLAN FOR ANY VARIANCES.

2. CONNECT ALL ROOF DRAIN (RDL) AND DOWNSPOUT (D&L) LINES TO STORM DRAINAGE SYSTEM, SEE PLUMBING PLAN FOR EXACT LOCATION OF ROOF DRAINS AND SEE ARCHITECTURAL PLAN FOR EXACT LOCATION OF DOWNSPOUTS.

3. ROOF DRAIN AND DOWNSPOUT COLLECTION LINES SHALL BE 1% SLOPE MIN, UNLESS OTHERWISE INDICATED.

4. ALL DOWNSPOUT LINES SHALL TIE INTO STORM DRAINAGE SYSTEM WITH BOOTS, SEE DETAIL, NO BOOTS REQUIRED IF ARCHITECTURAL PLAN CALLS FOR SPLASH BLOCKS.

5. ALL DOWNSPOUT LINES LEAVING THE BUILDING ARE 6" DIAMETER PIPE UNLESS OTHERWISE INDICATED.

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DOWNSPOUT AND ROOF DRAIN PLAN

WILLIAM D. MARTIN
REGISTERED PROFESSIONAL ENGINEER
No. 38129
STATE OF GEORGIA

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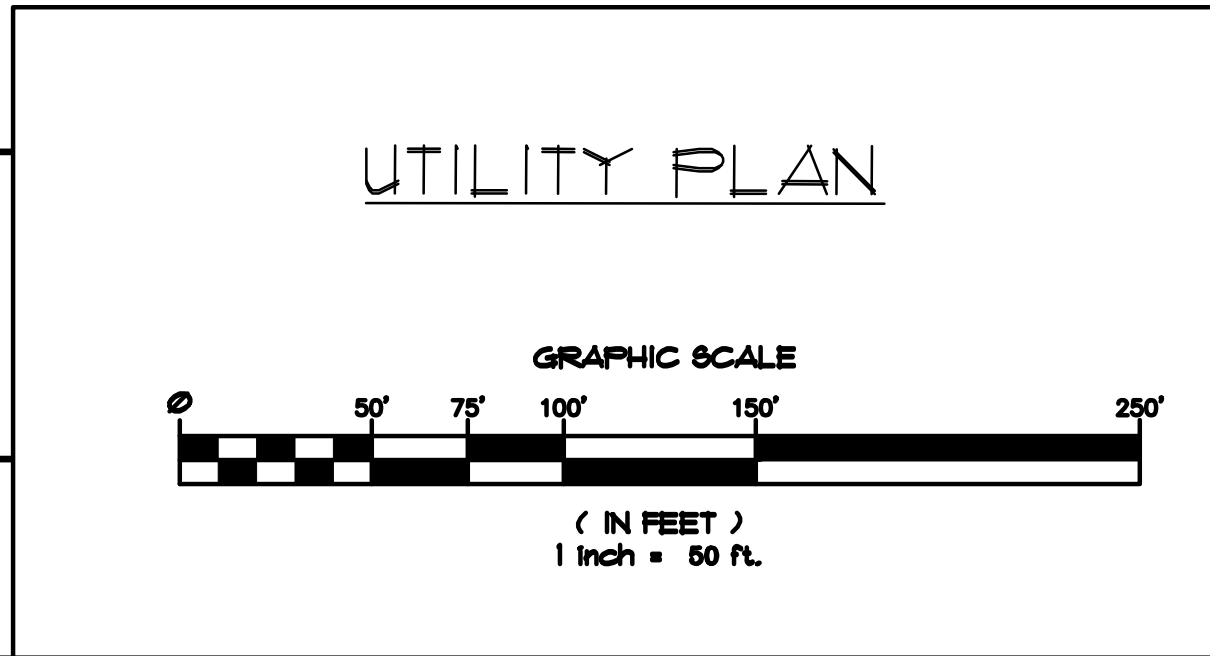
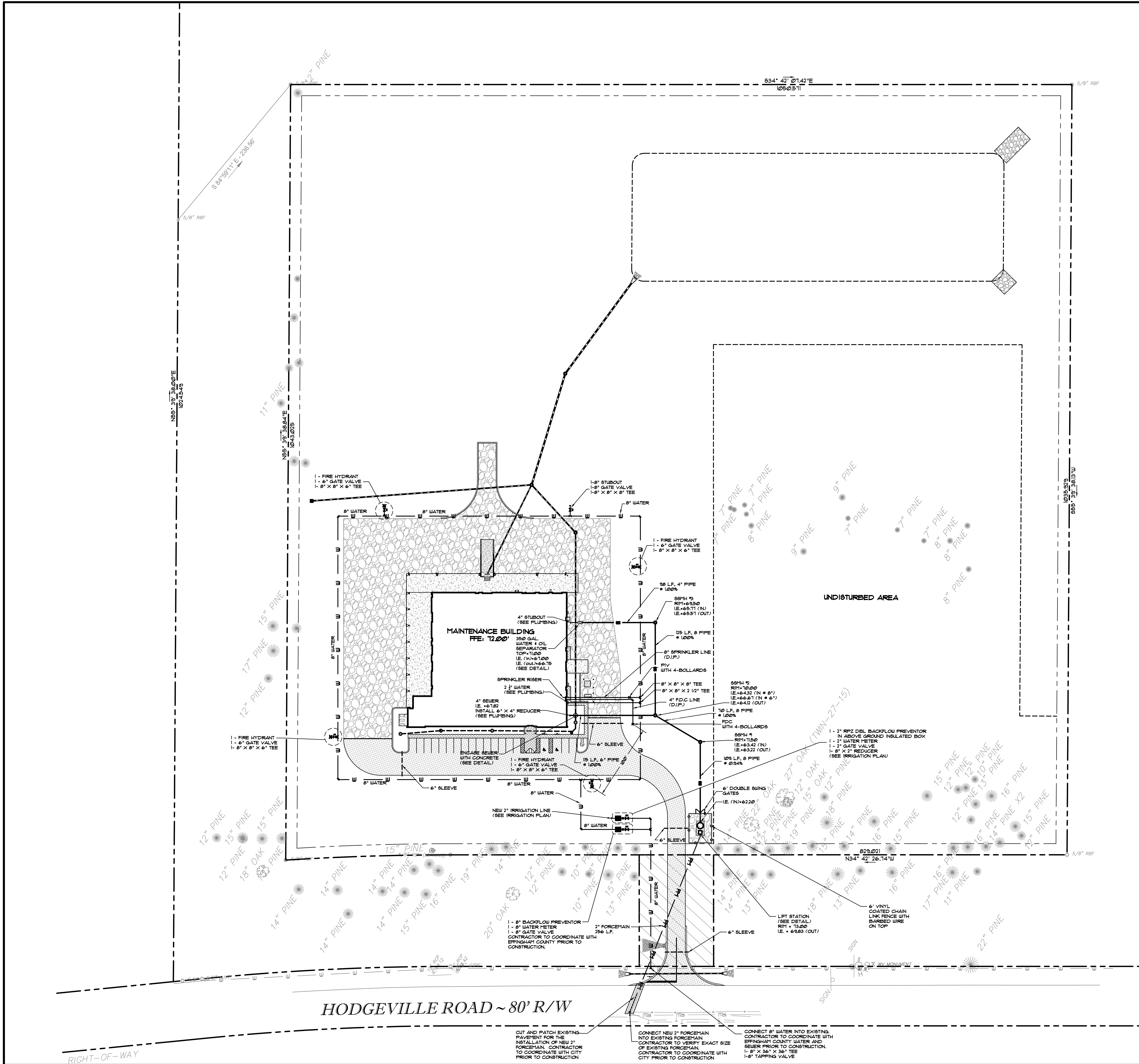
DOWNSPOUT AND ROOF DRAIN PLAN

GRAPHIC SCALE

0 20' 30' 40' 60' 100'

(IN FEET)
1 inch = 20 ft.

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UTILITY PLAN

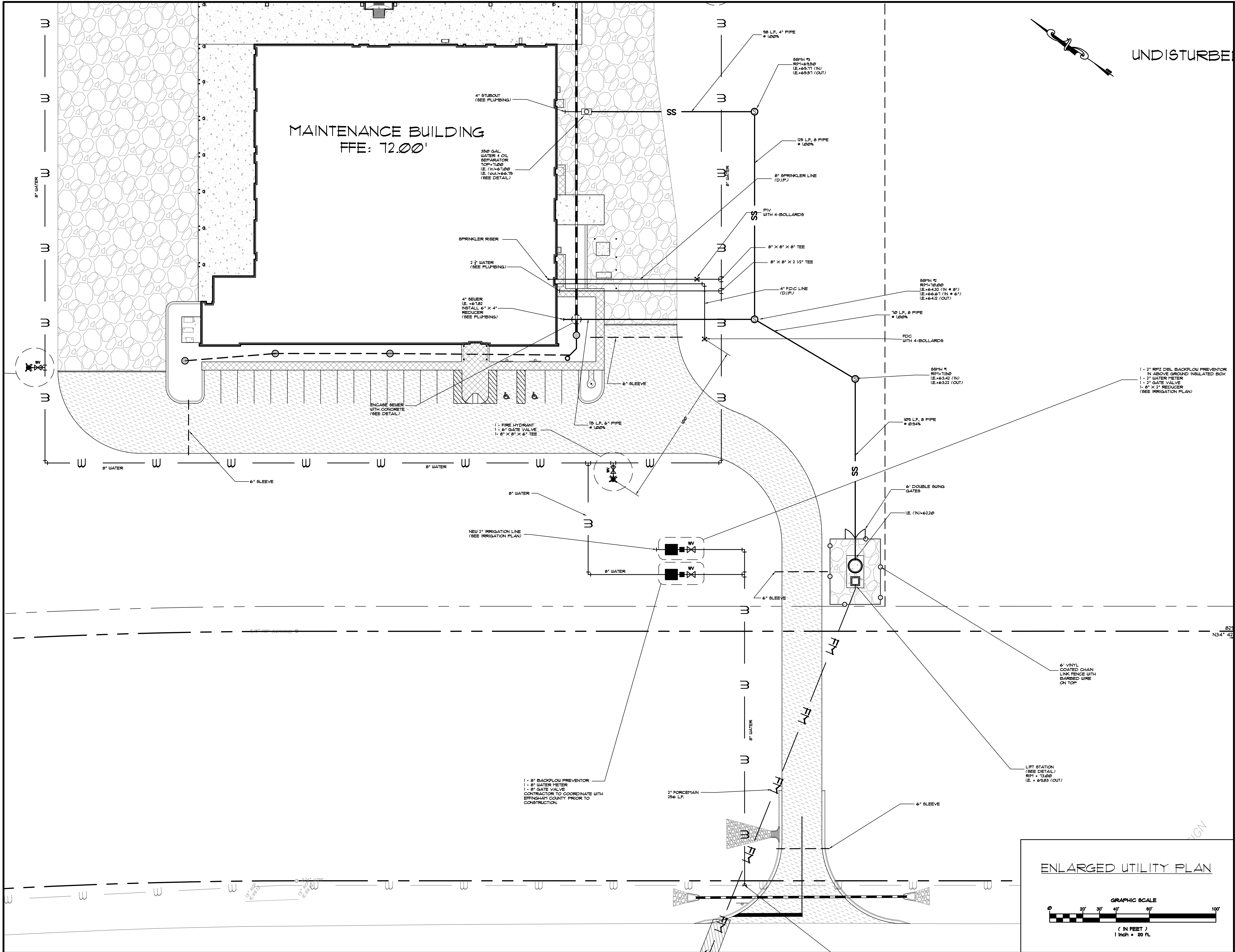
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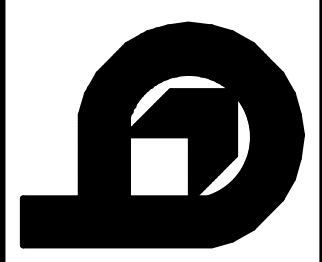
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ENLARGED UTILITY PLAN

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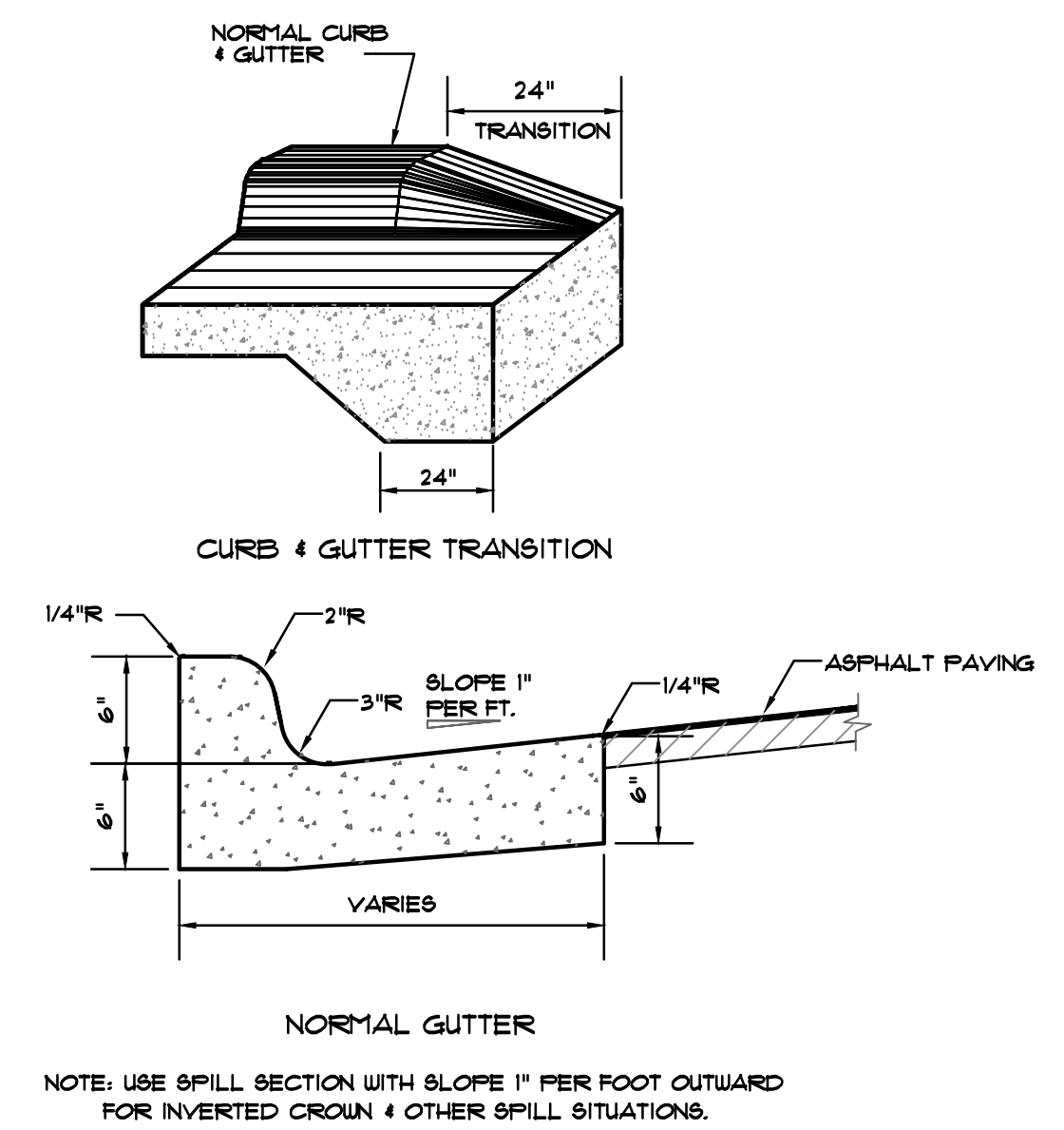
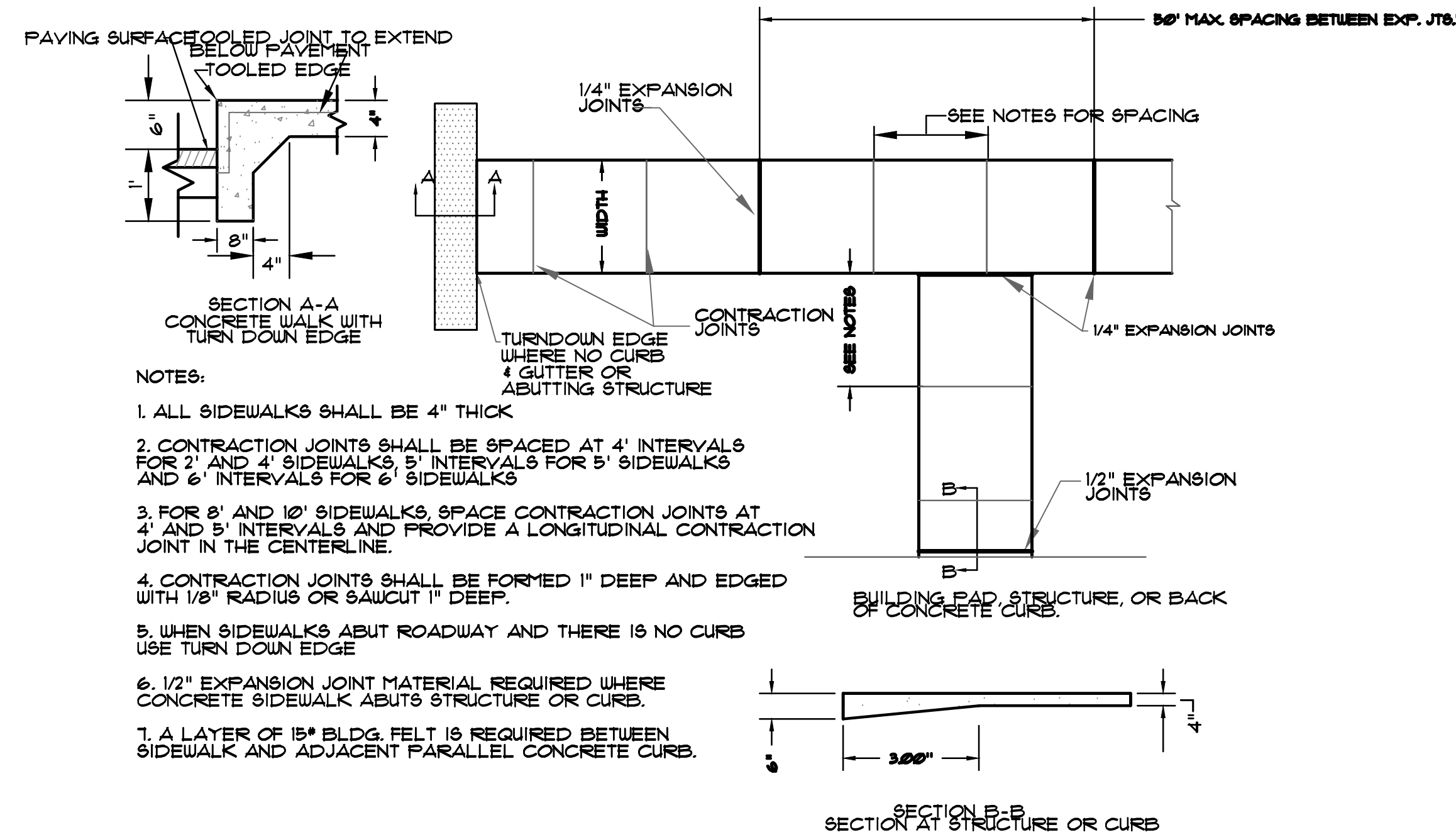
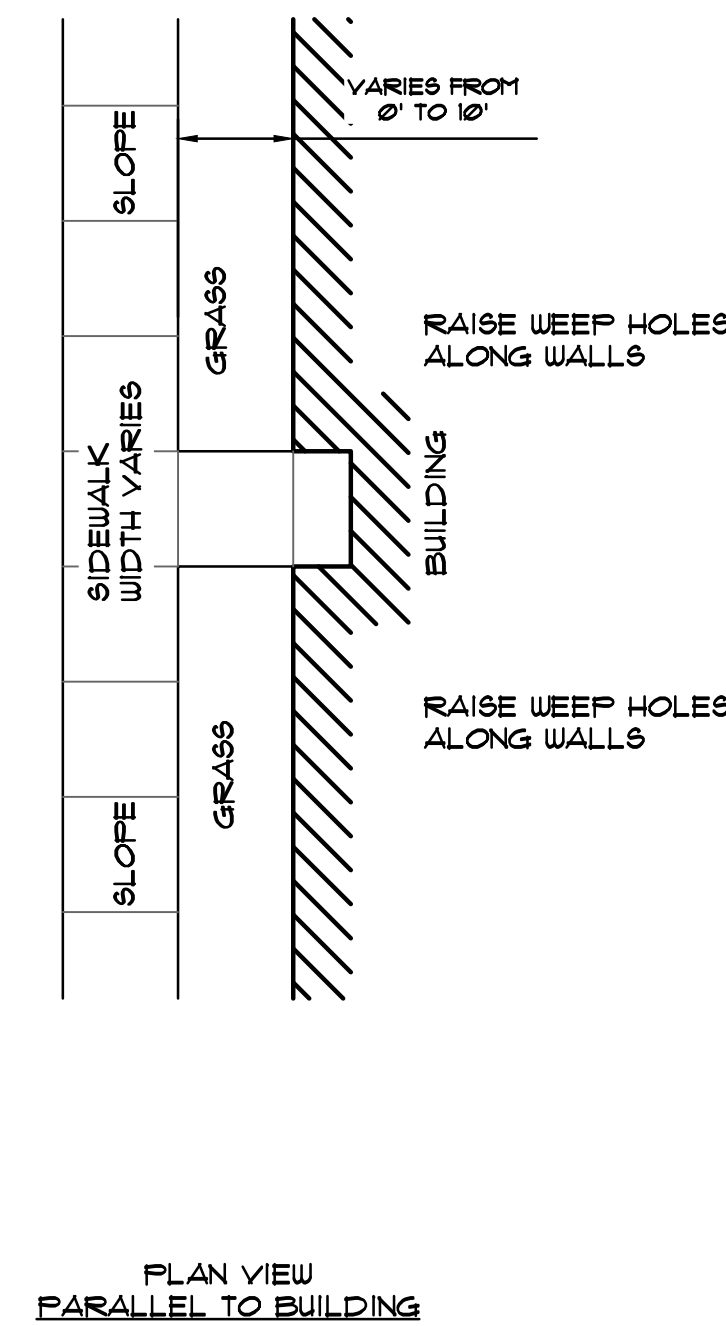
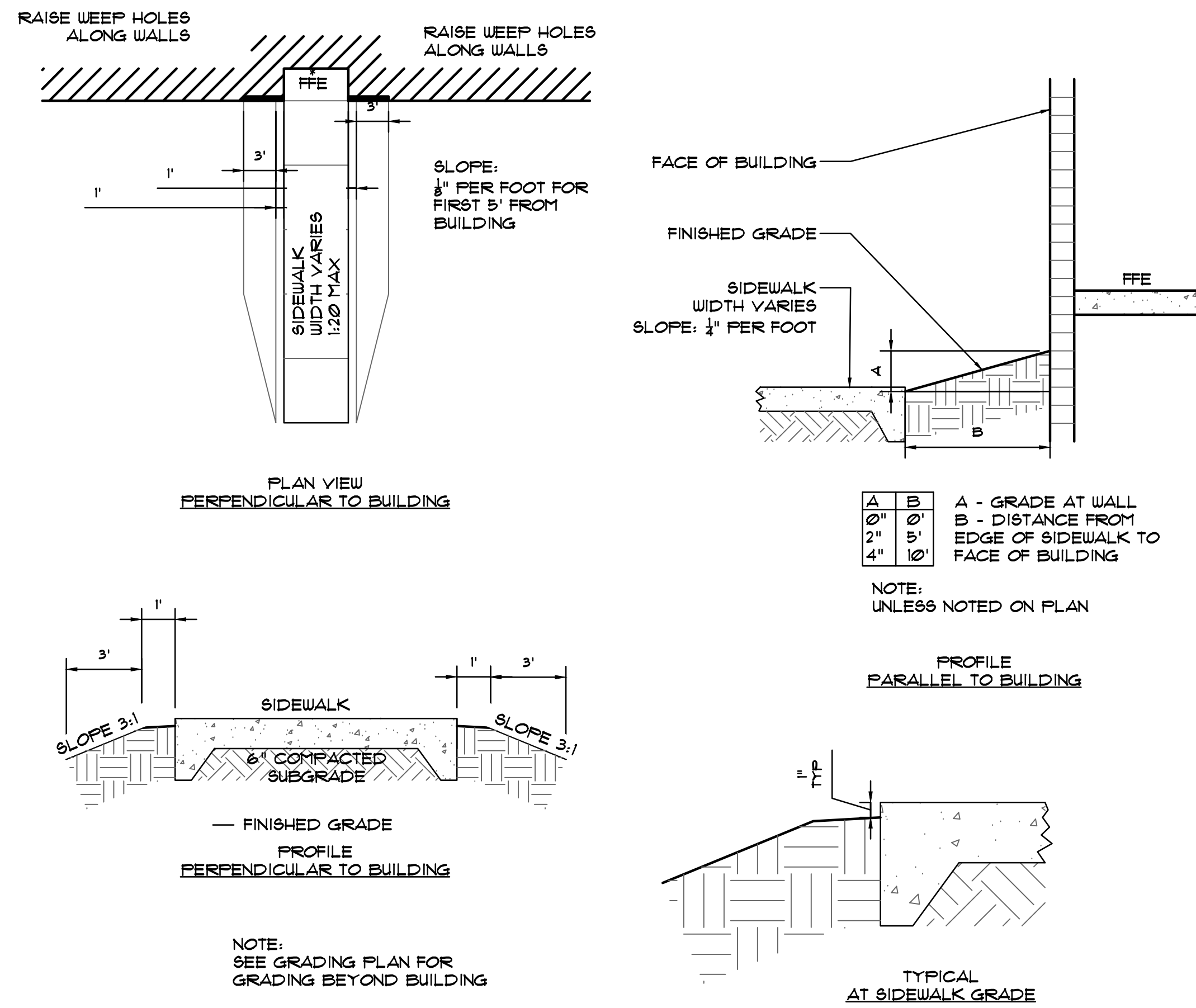
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1 GRADING FOR SIDEWALKS AT BUILDING

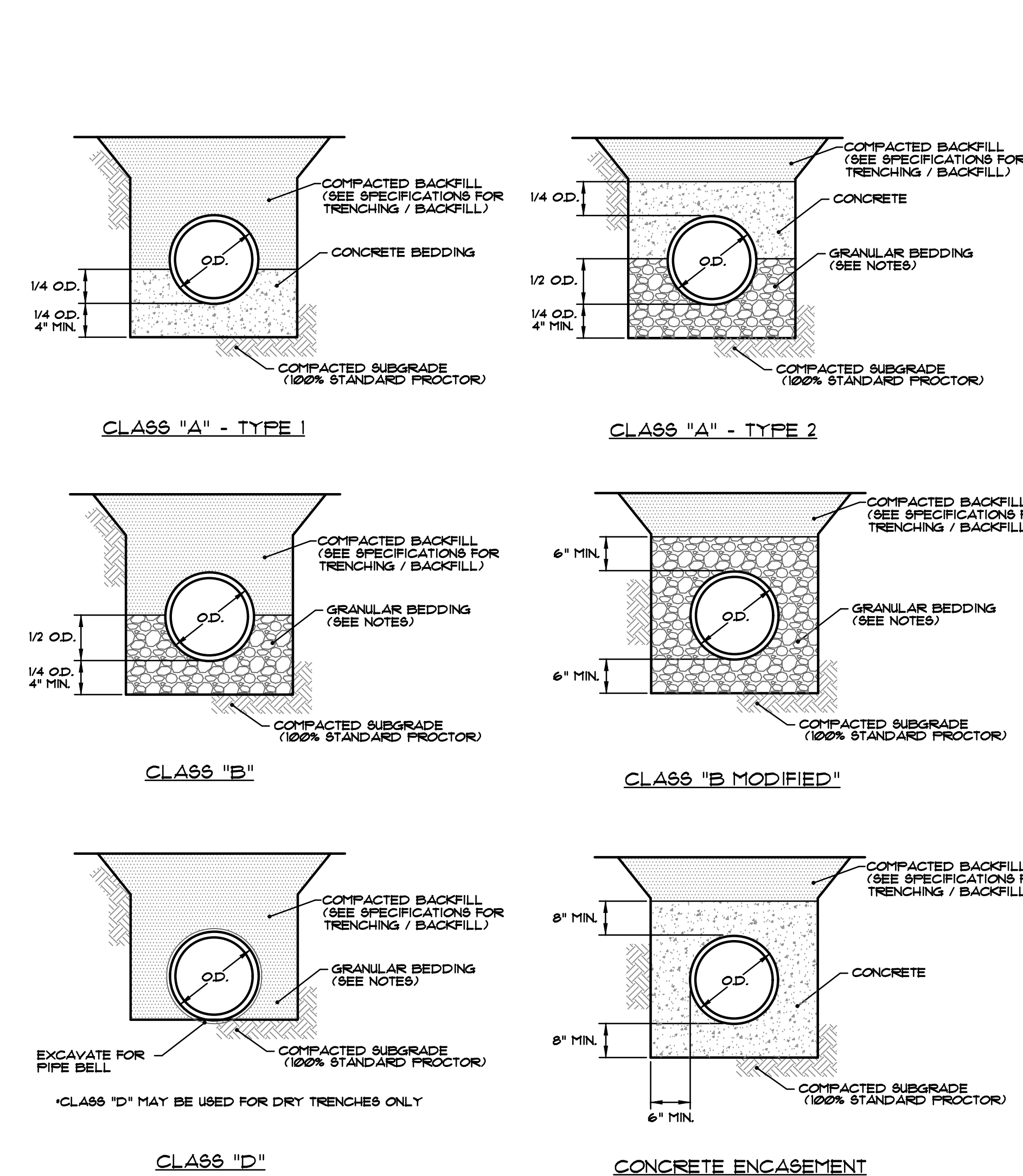
NOT TO SCALE

2 CONCRETE SIDEWALK

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3 CURB & GUTTER

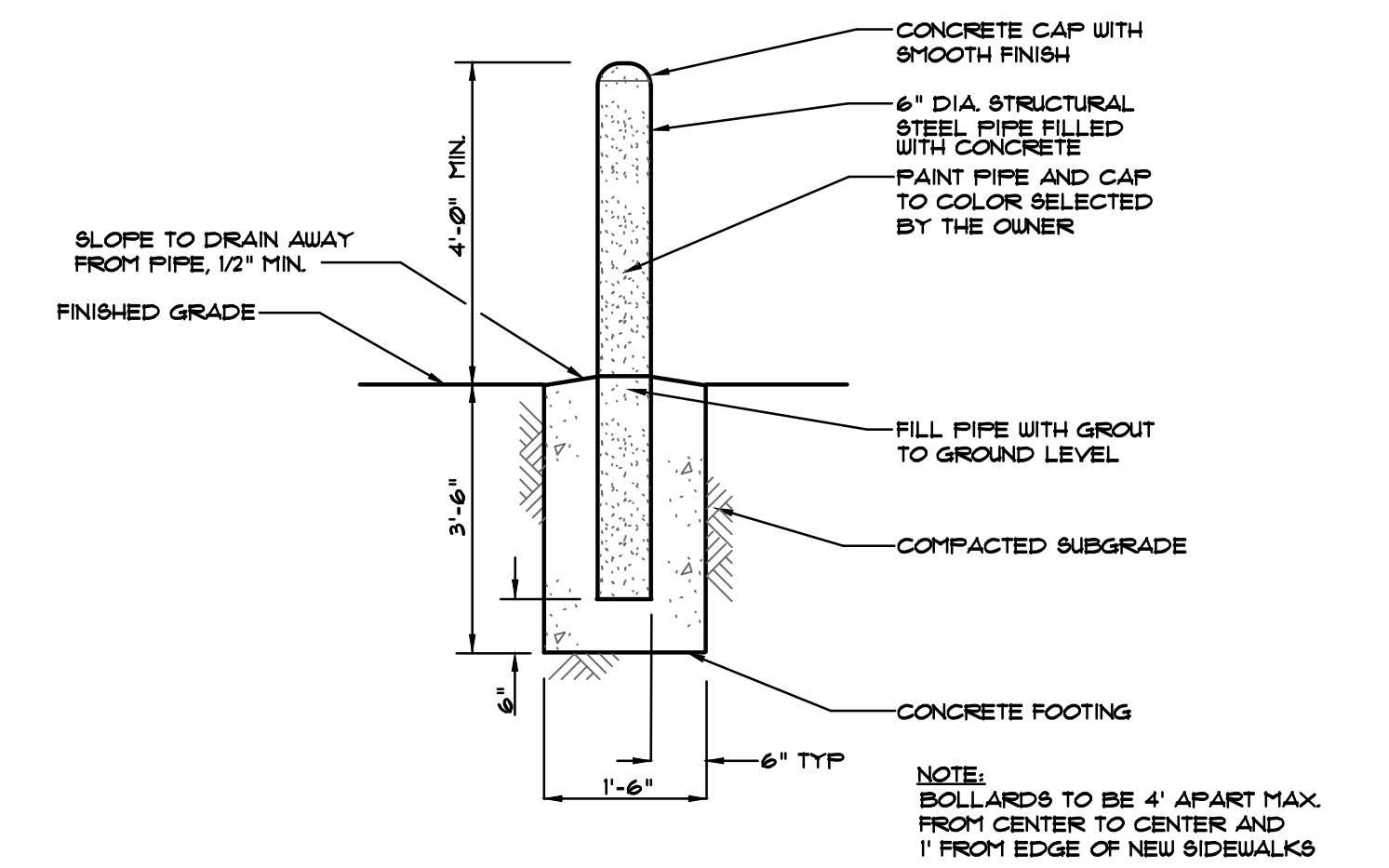
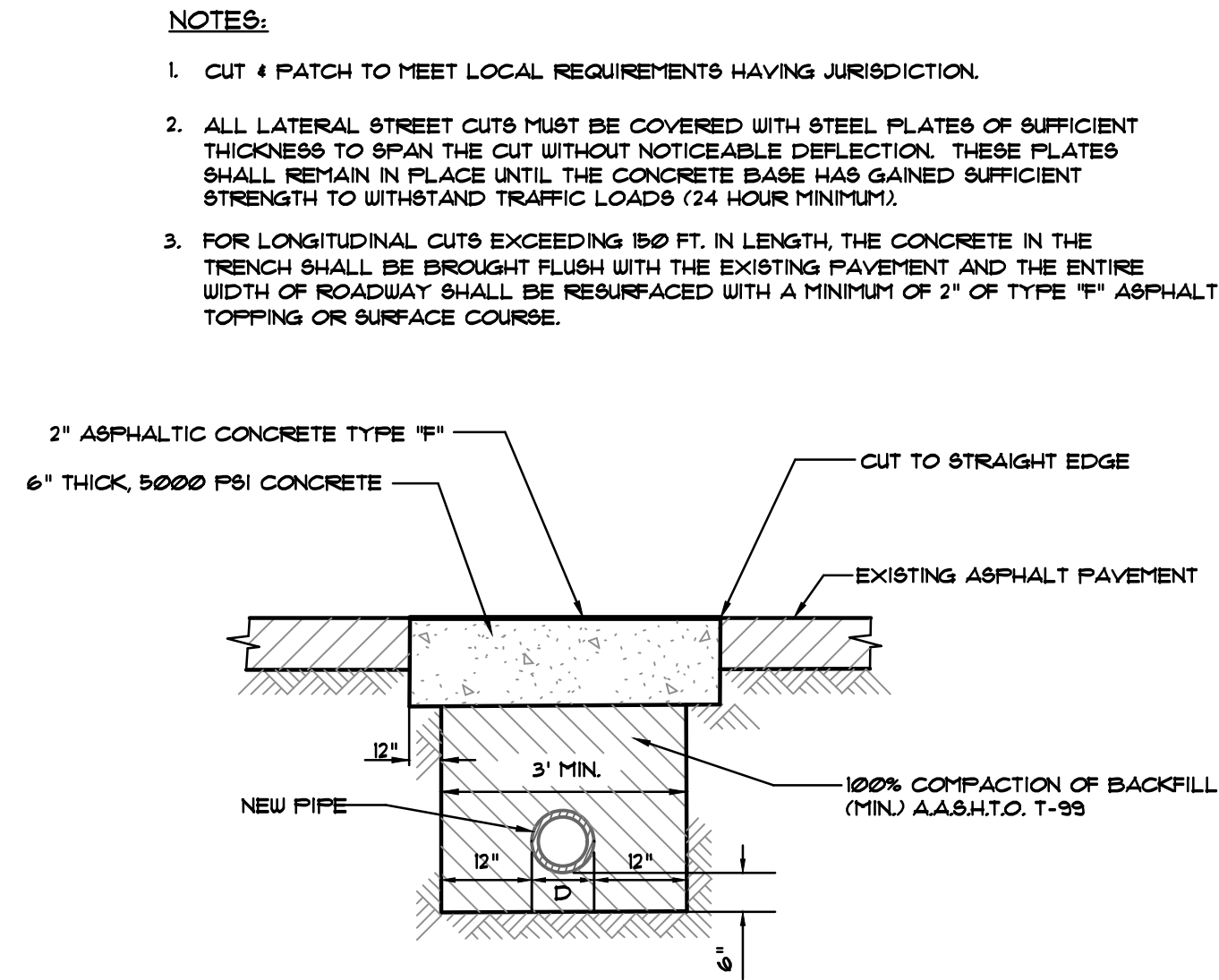
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5 TYPICAL PIPE ENCASEMENT

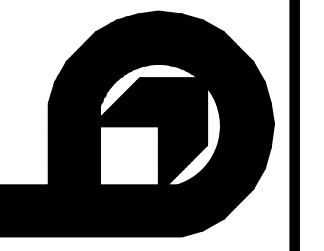
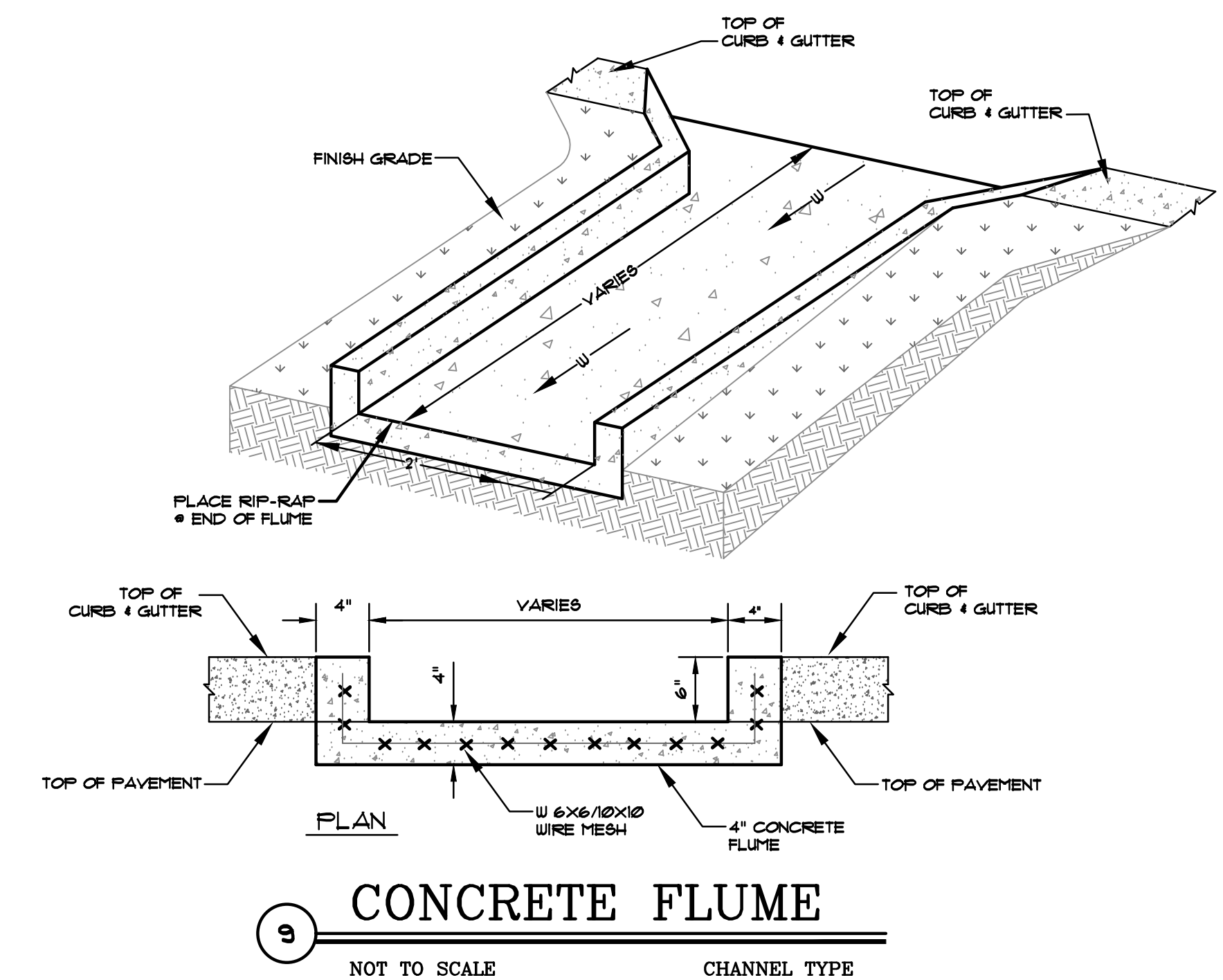
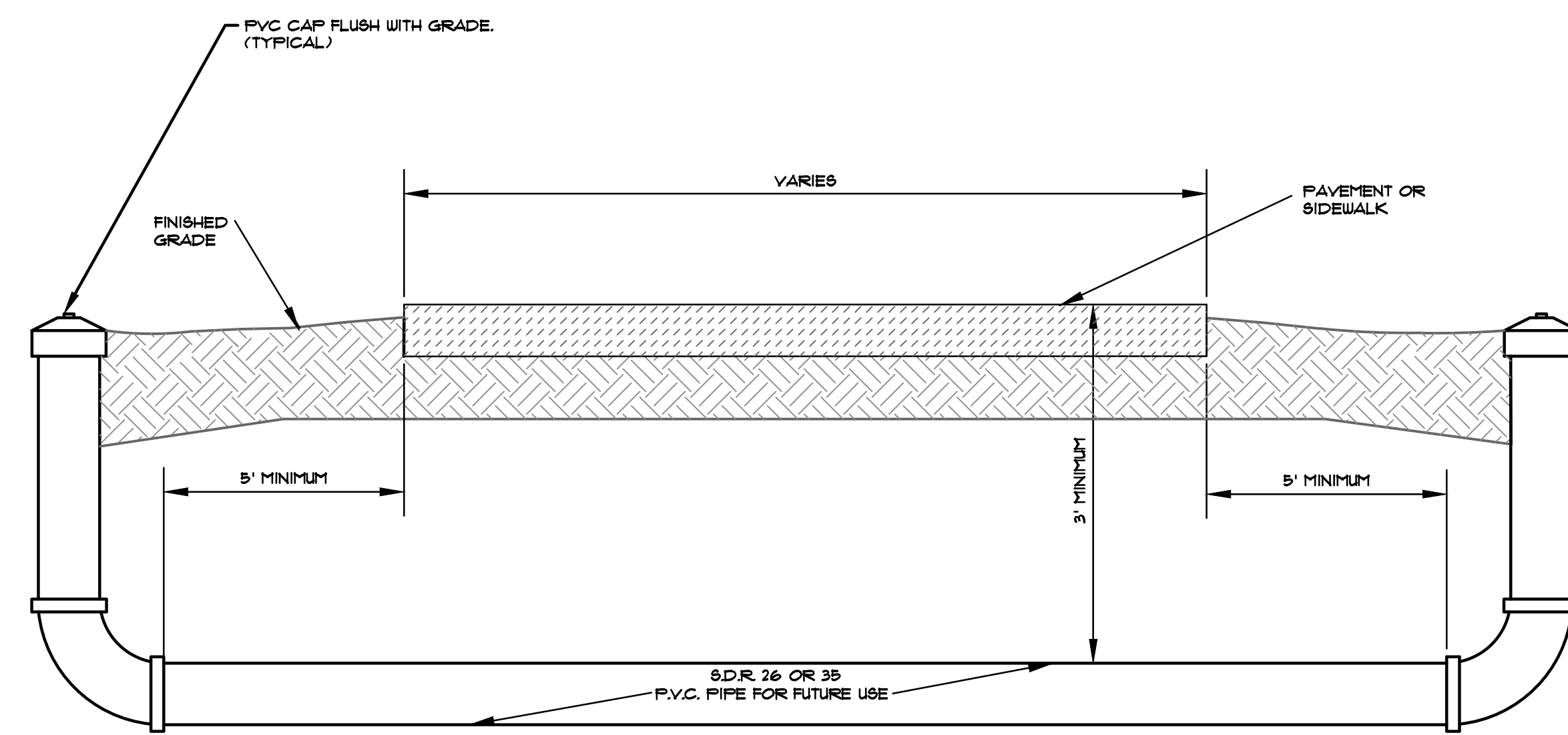
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DESCRIPTION: LOCATE WHERE AND LENGTH OF CASEMENT ON PLANS



4 PIPE BEDDING DETAILS

NOT TO SCALE



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CONSTRUCTION DETAILS

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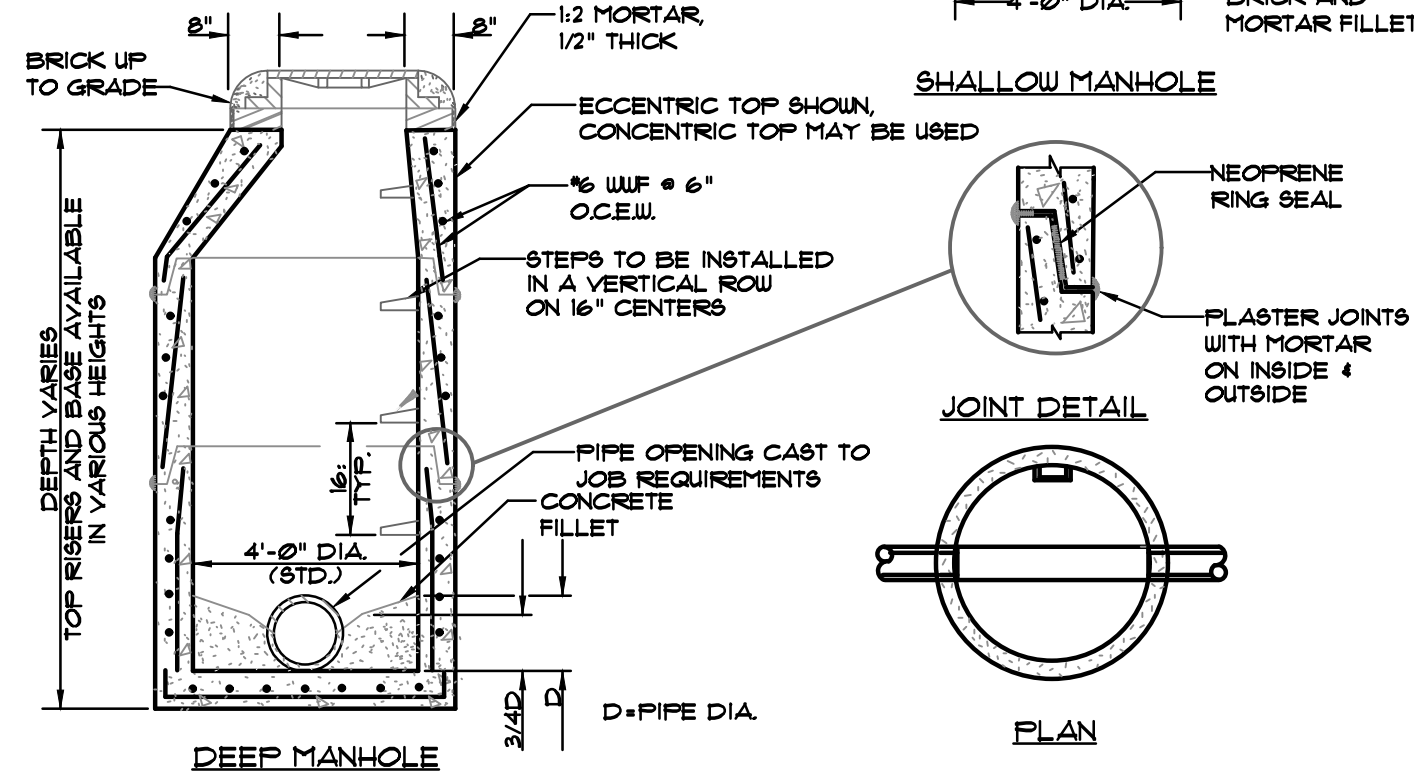
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APPROVED BY
12-20-2024
DATE
22-065
PROJECT NO.

SHEET NUMBER
C5.1

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NOTES:

1. SET TOP OF MANHOLE 3" ABOVE FINISHED GRADE, OR FLUSH WITH PAVEMENT, UNLESS OTHERWISE SHOWN.
2. TOP, RISERS AND BASE SHALL CONFORM TO ASTM SPECIFICATION C-418-LR FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS.
3. MANHOLE RING AND COVER SHALL BE SIMILAR TO NEENAH R-142-A4. LID SHALL HAVE MACHINED BEARING SURFACES AND SHALL BE LETTERED "STORM", "WATER" OR "SANITARY" AS APPROPRIATE.
4. MANHOLE SHALL BE STANDARD 4'-0" INSIDE DIAMETER UNLESS OTHERWISE SHOWN ON PLANS.
5. CORE DRILL MANHOLES FOR CONNECTIONS INTO THE SEWER SYSTEM.

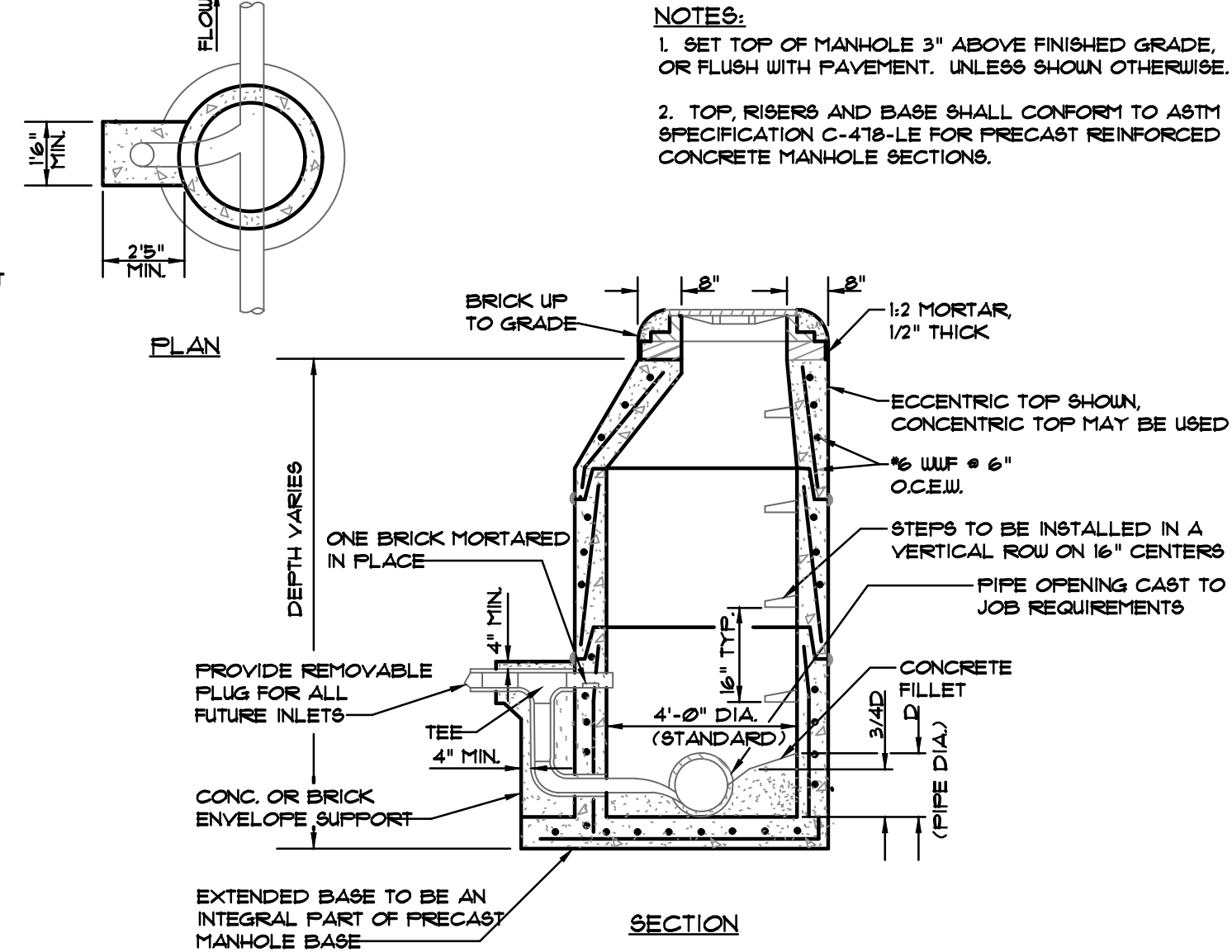


PRECAST CONCRETE MANHOLE

NOT TO SCALE

NOTES:

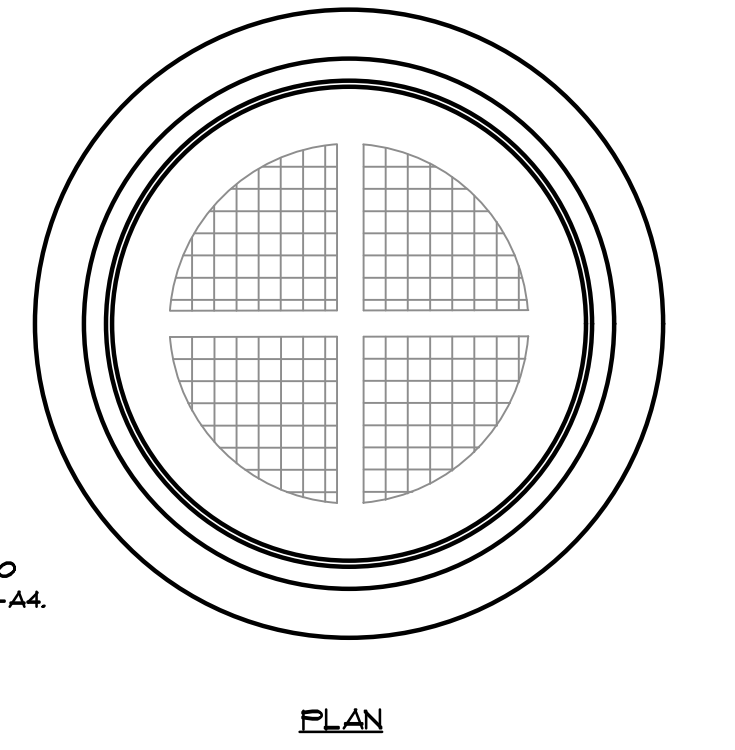
1. SET TOP OF MANHOLE 3" ABOVE FINISHED GRADE, OR FLUSH WITH PAVEMENT, UNLESS SHOWN OTHERWISE.
2. TOP, RISERS AND BASE SHALL CONFORM TO ASTM SPECIFICATION C-418-LR FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS.



DROP MANHOLE

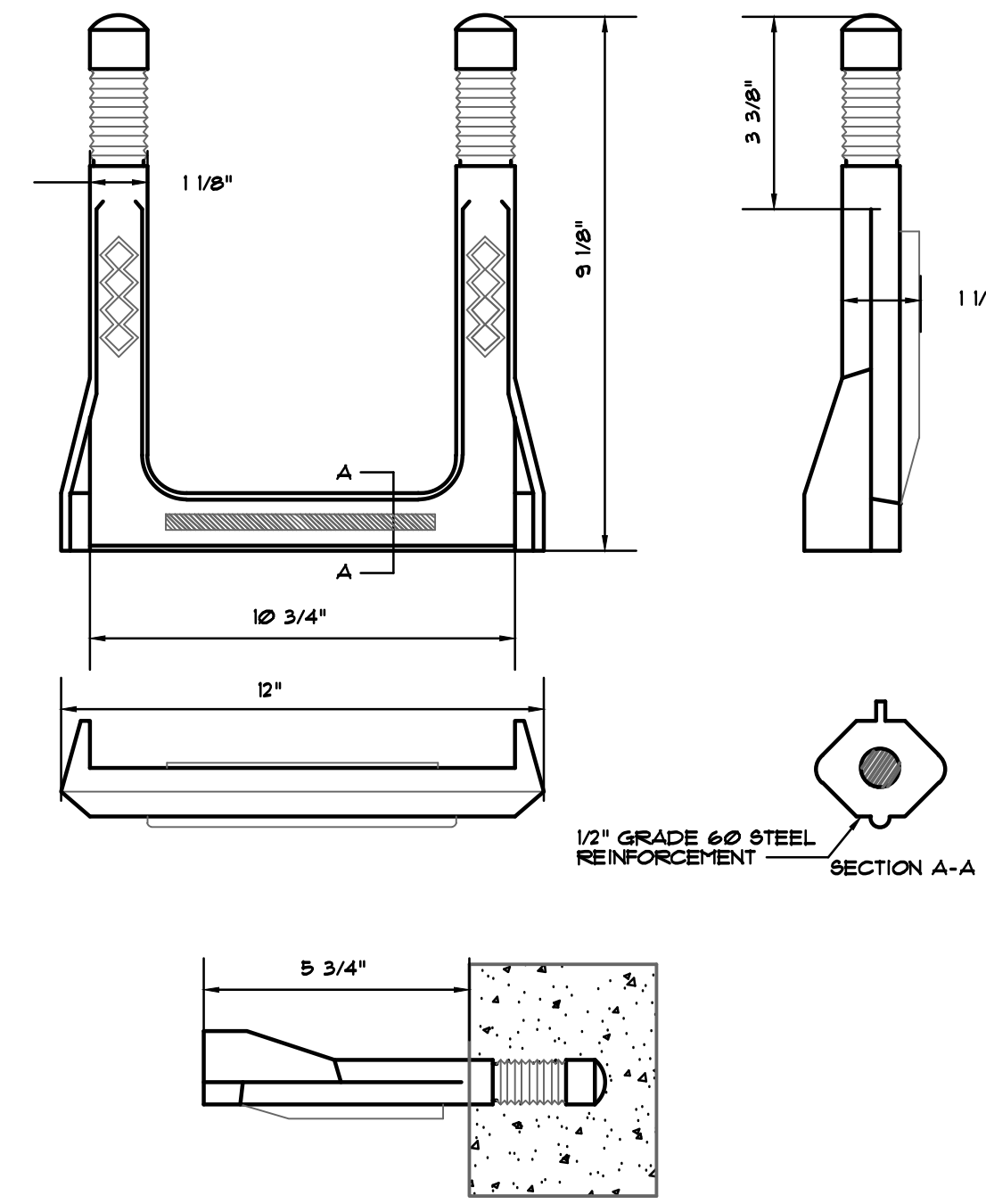
NOT TO SCALE

NOTE:
MANHOLE RING & COVER SIMILAR TO NEENAH FOUNDRY COMPANY R-142-A4. TOTAL WEIGHT 3600 TYPE "C" LID TO HAVE MACHINED BEARING SURFACES, LID TO BE LETTERED "STORM", "SANITARY" OR "WATER" AS APPROPRIATE.



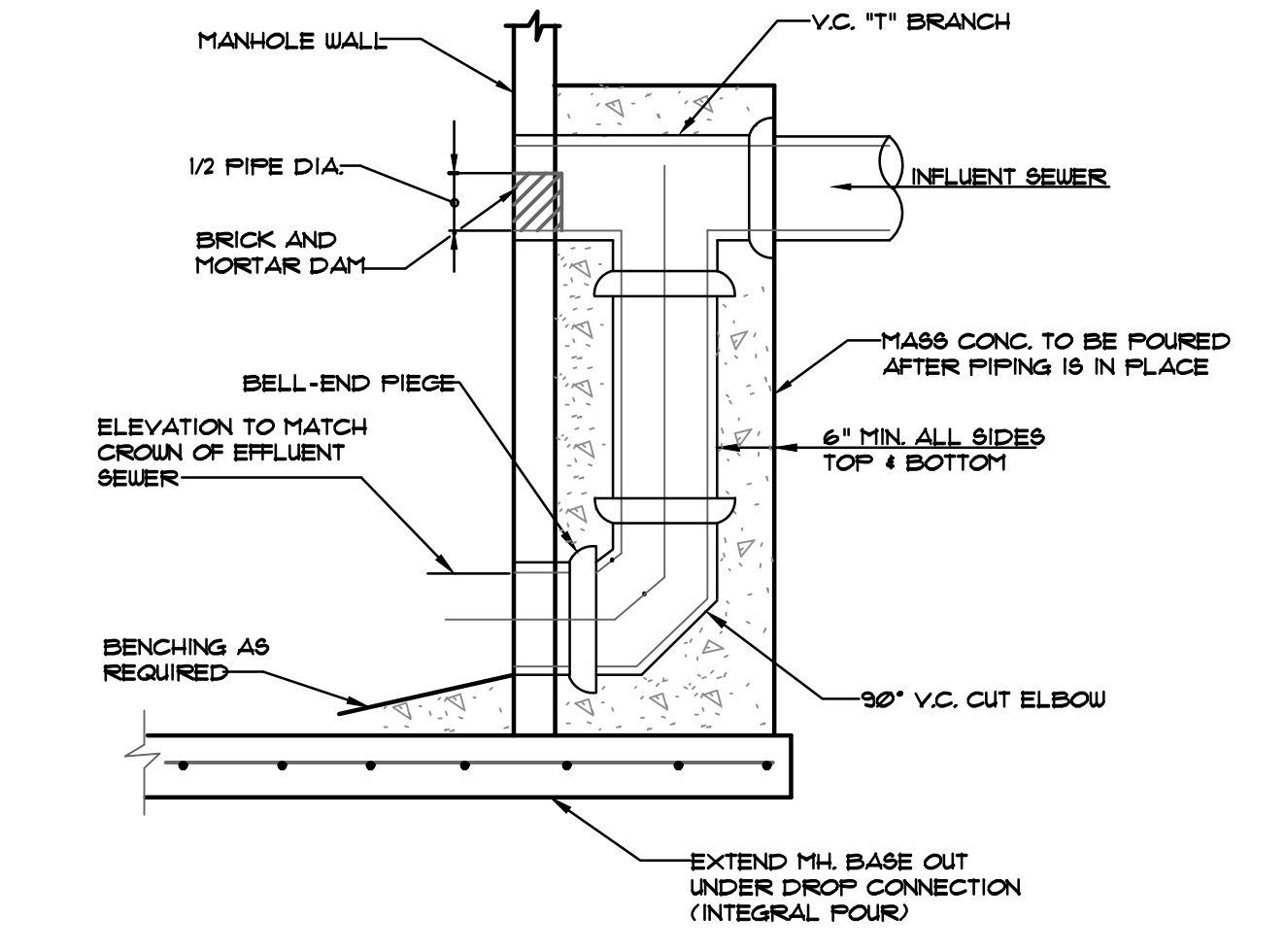
MANHOLE RING & COVER

NOT TO SCALE



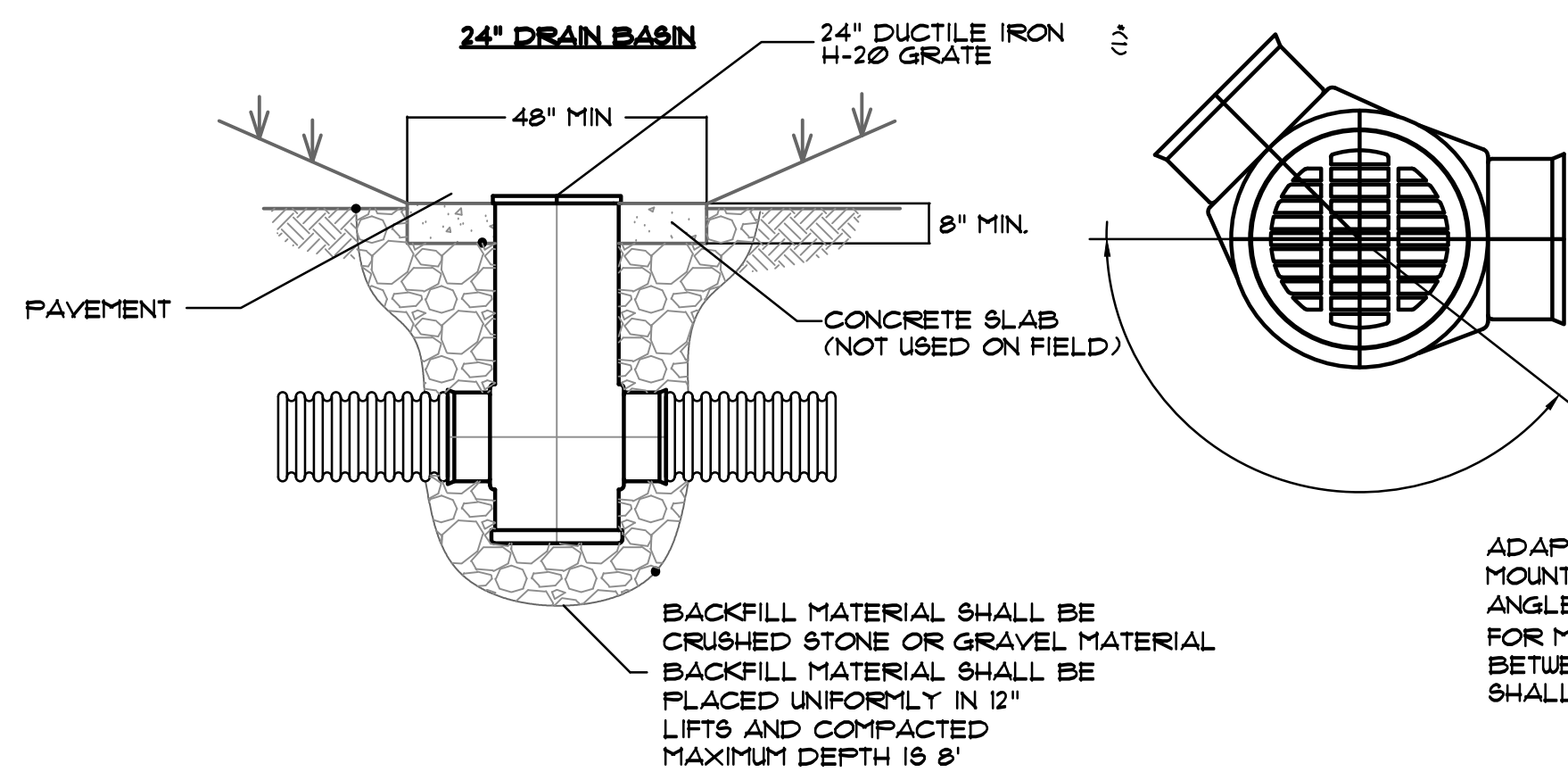
MANHOLE STEP

NOT TO SCALE POLYPROPYLENE



STANDARD DROP CONNECTION

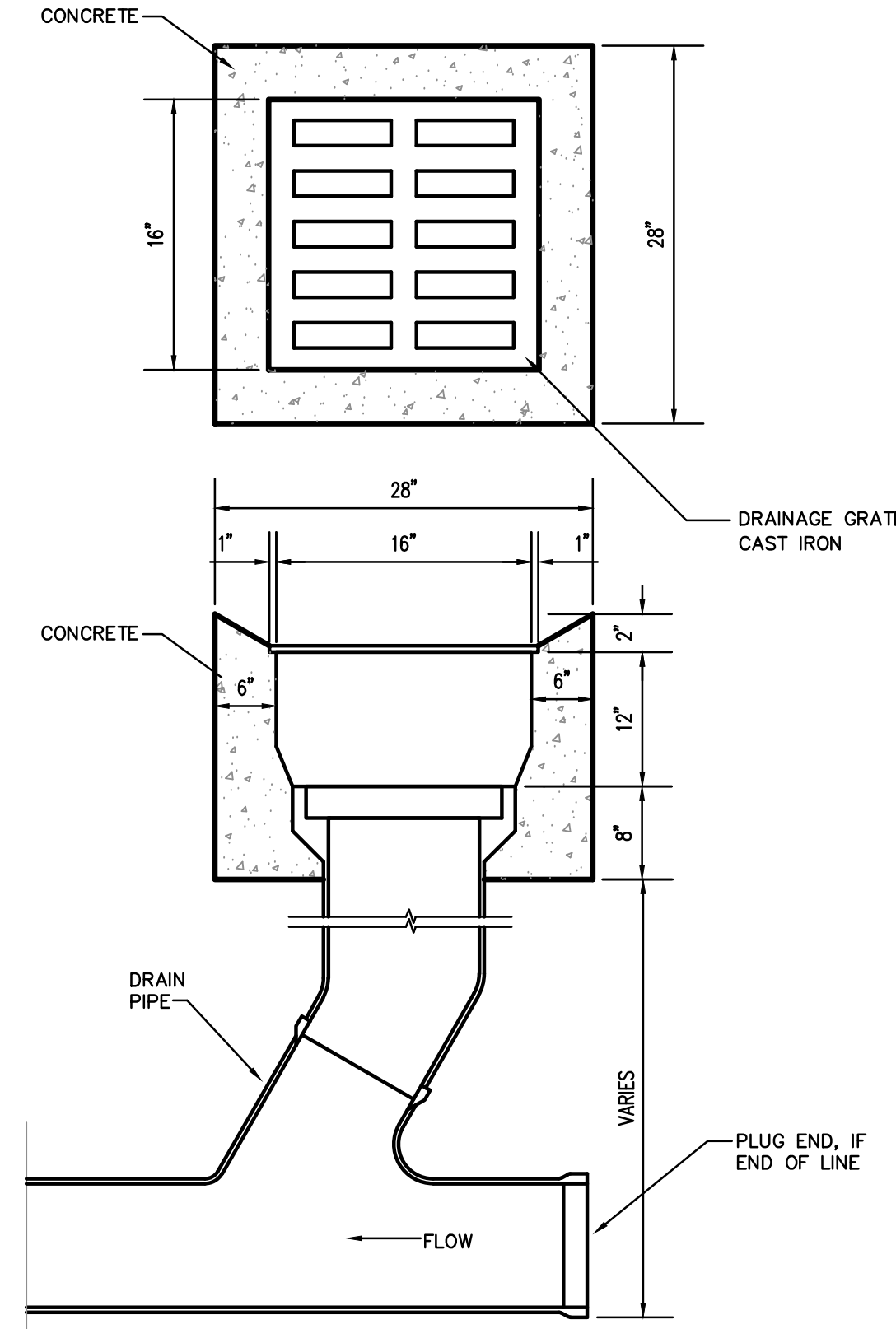
NOT TO SCALE



YARD DRAIN

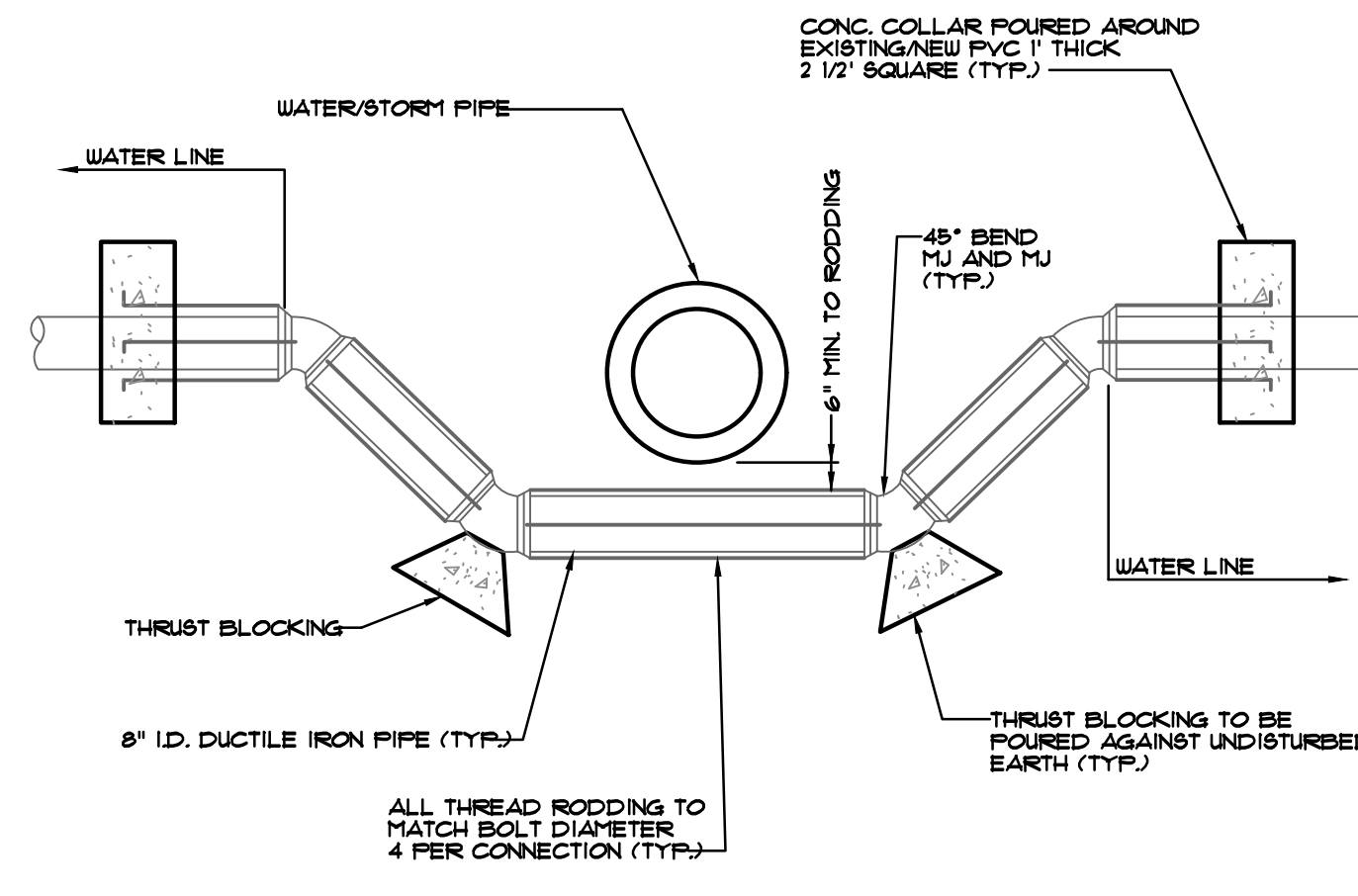
NOT TO SCALE

ADAPTORS CAN BE MOUNTED ON ANY ANGLE 0° TO 35.9°. FOR MINIMUM ANGLE BETWEEN ADAPTORS SHALL BE 90°.



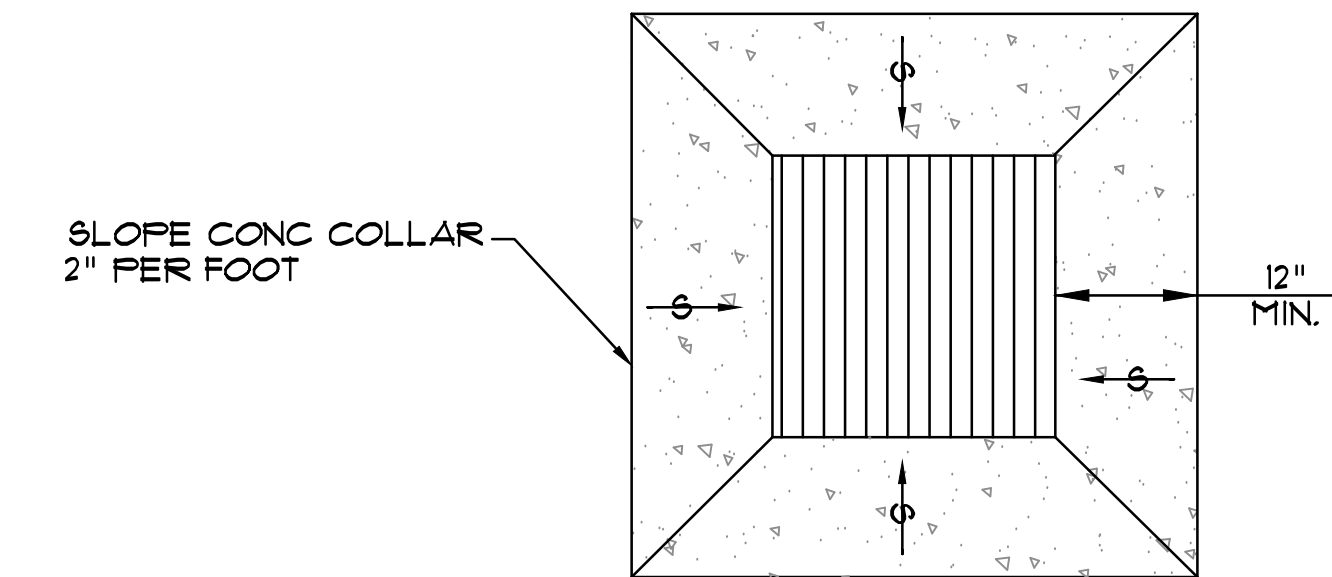
INLINE DRAIN

NOT TO SCALE



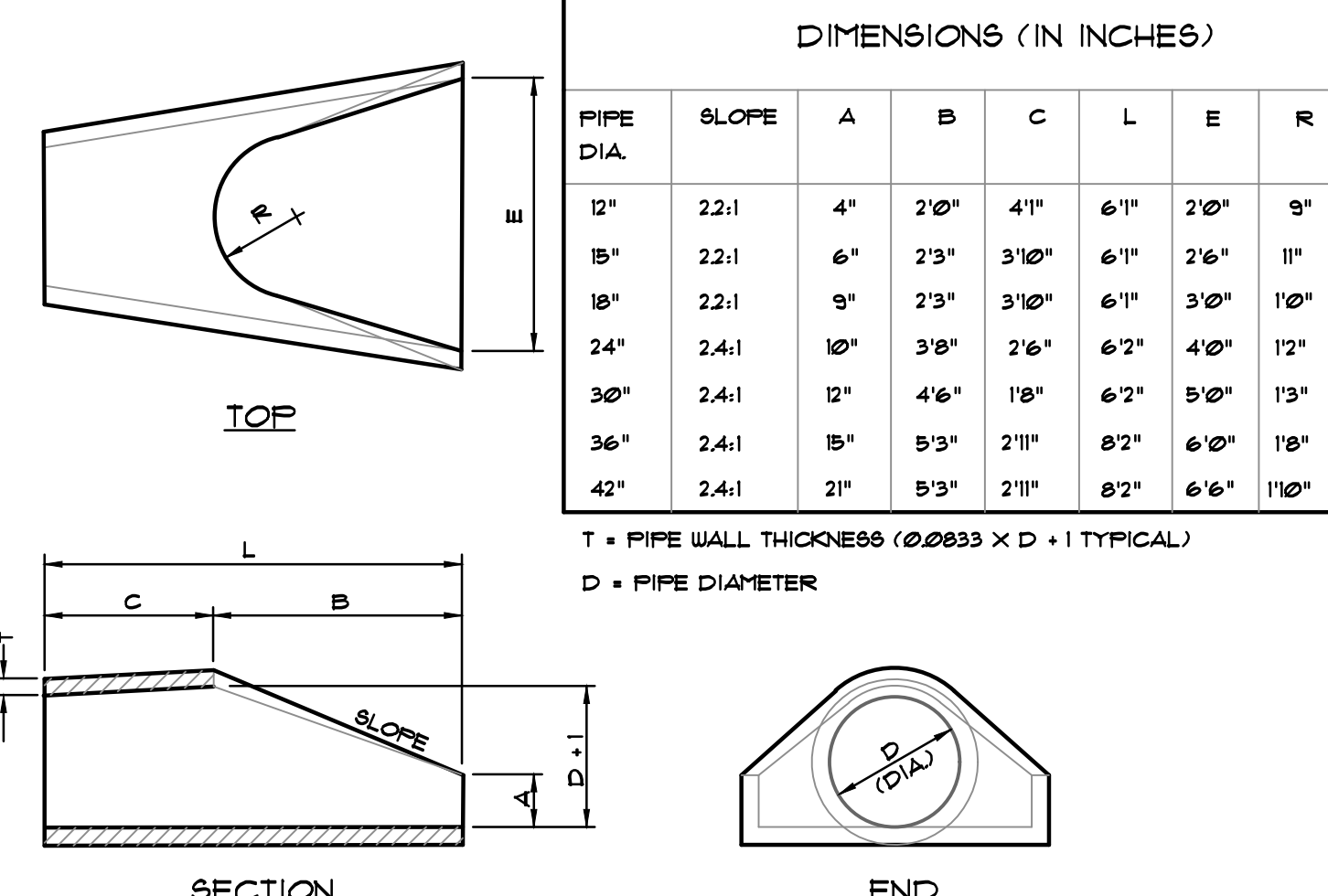
PIPE INTERSECTION

NOT TO SCALE



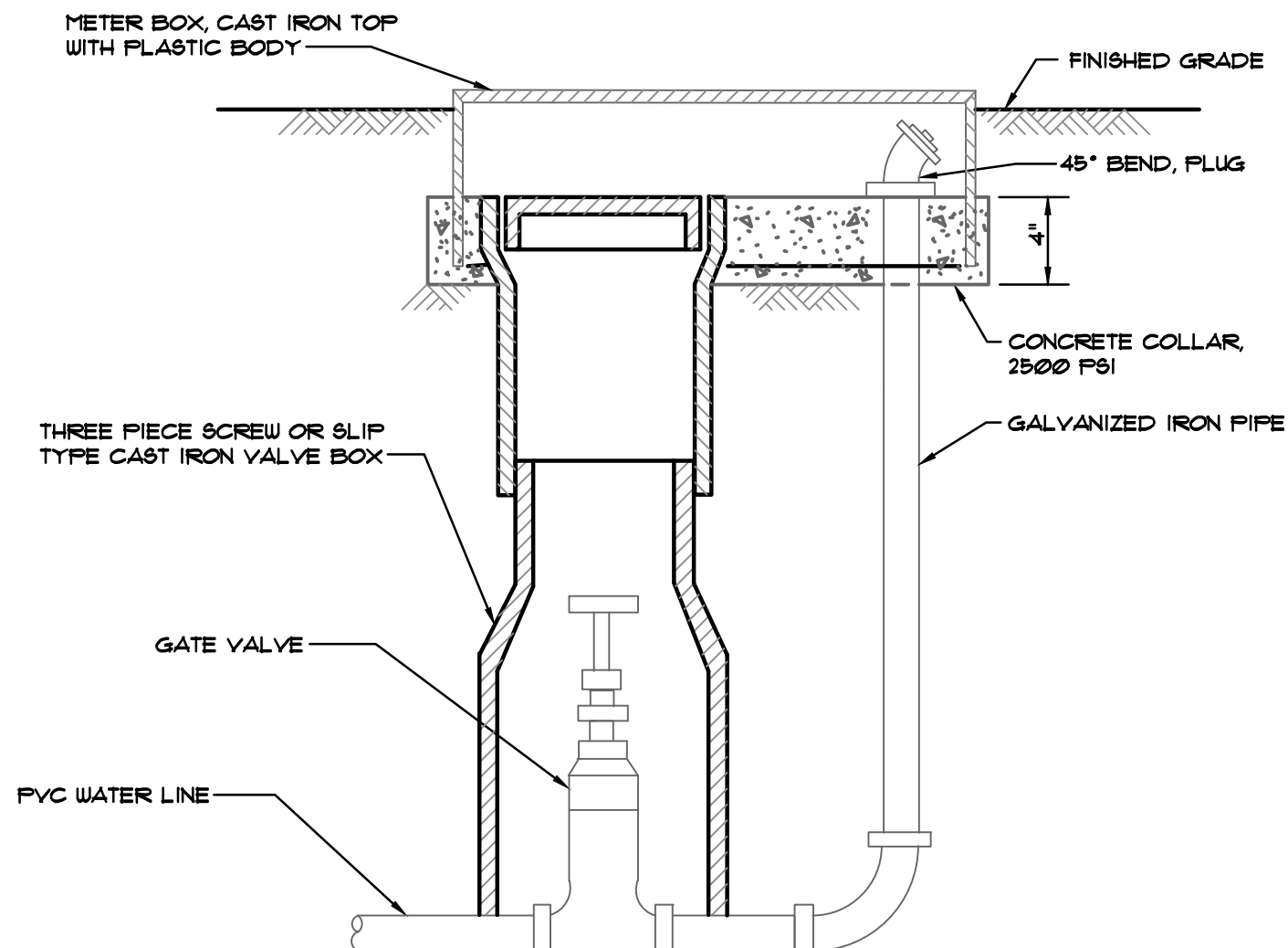
GRATE INLET

NOT TO SCALE



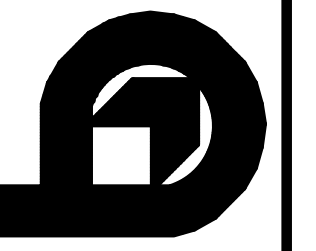
CONCRETE FLARED END SECTION

NOT TO SCALE



WATER LINE STUB OUT

NOT TO SCALE



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SWANSBORO, ALBANY, ROME AND SAVANNAH, GEORGIA

CONSTRUCTION DETAILS

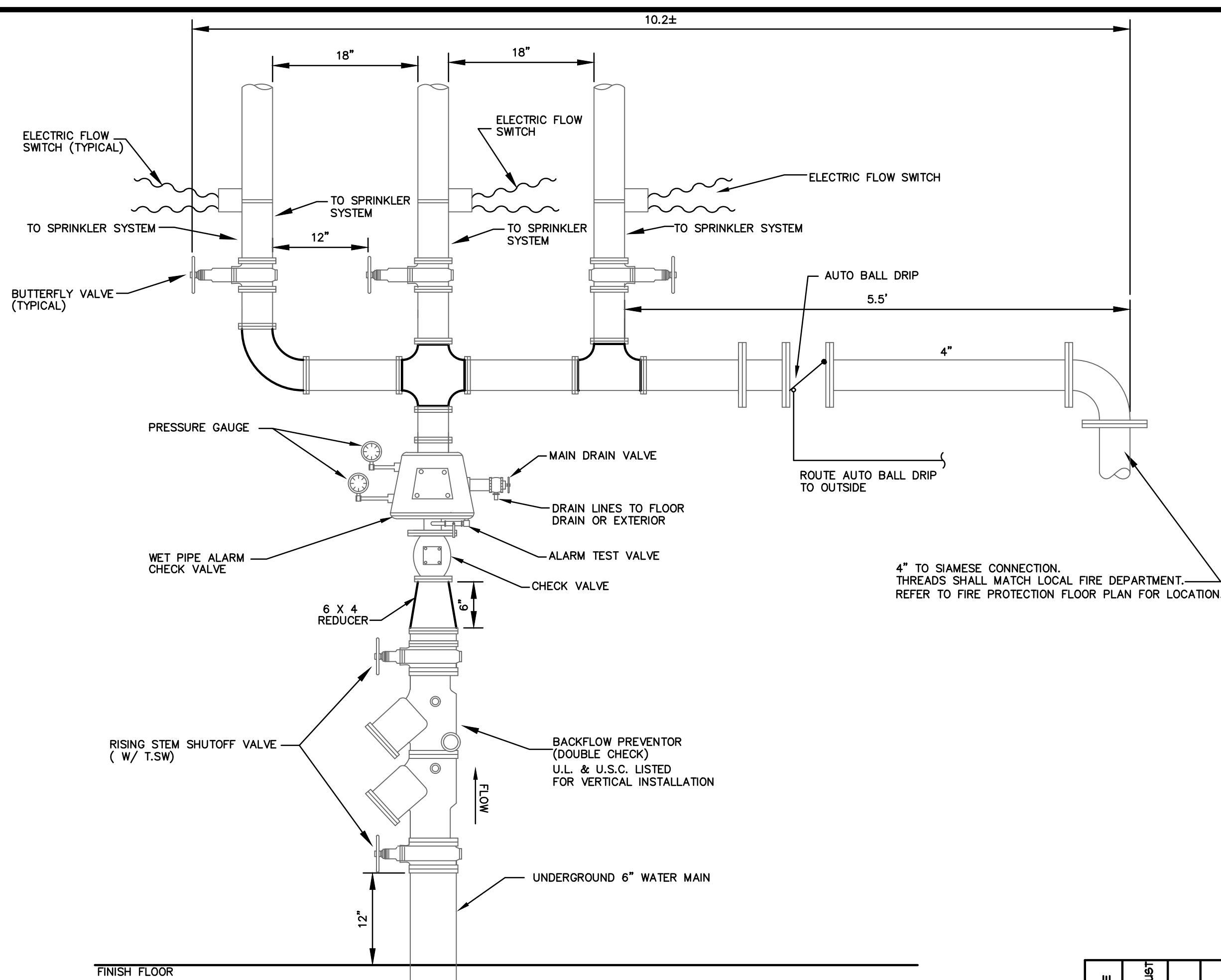


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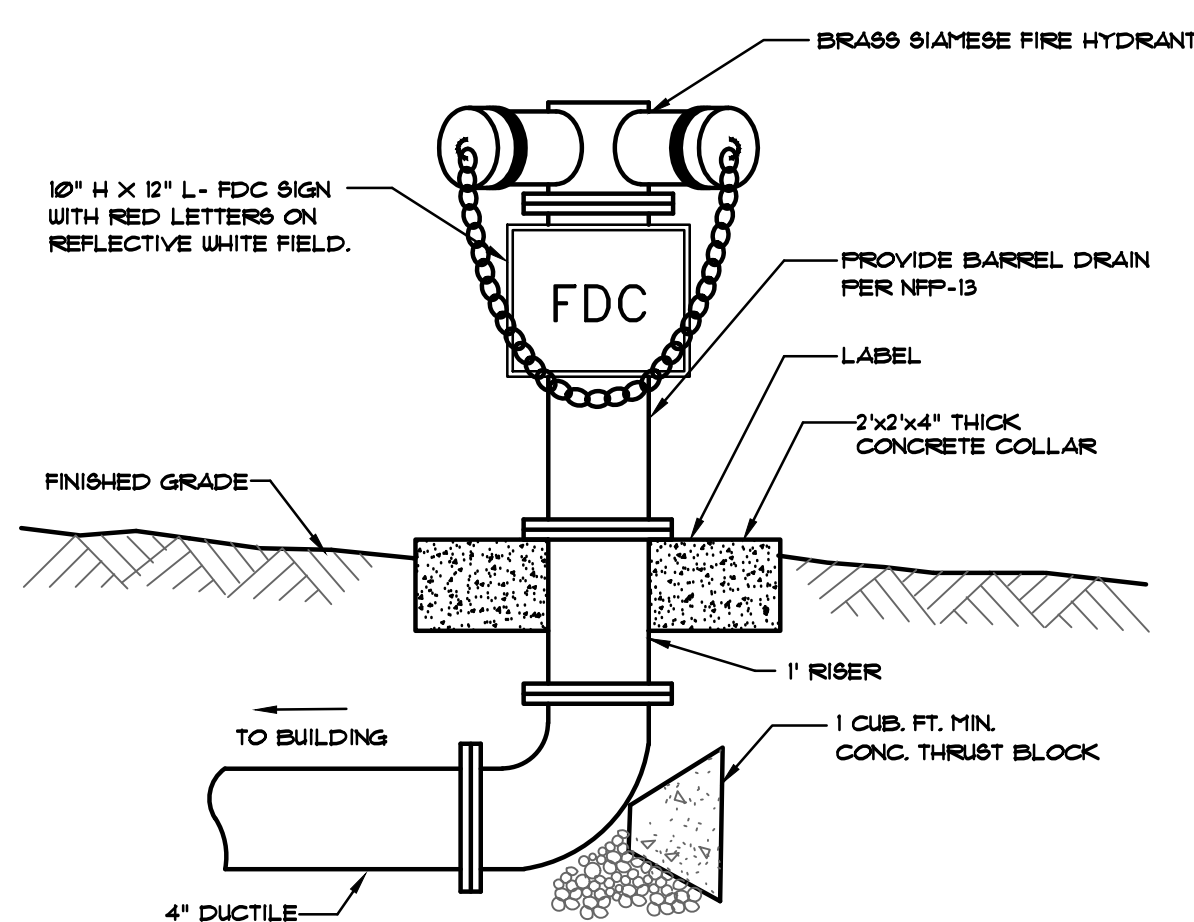
C5.2



- NOTES:**
- SEE UTILITY PLAN FOR WHETHER OR NOT BACKFLOW PREVENTOR IS TO BE MOUNTED ON SPRINKLER RISER.
 - BACKFLOW PREVENTOR MAY BE MOUNTED VERTICALLY IF USING AN APPROVED VERTICAL MOUNT BACKFLOW DEVICE.
 - PUMP ALL PIPES RED.
 - SEE ARCHITECTURAL PLAN FOR RISER LOCATION.
 - SPRINKLER RISER AND SAMESE CONNECTION WORKS SHALL BE COORDINATED WITH THE SPRINKLER CONTRACTOR.
 - SPRINKLER SYSTEM SHALL BE DESIGNED TO WORK WITH EXISTING WATER PRESSURES.
 - SPRINKLER CONTRACTOR SHALL CALCULATE THE NUMBER OF RISERS REQUIRED. IF MORE THAN 3 ARE REQUIRED ARCHITECT SHALL NOTIFY IMMEDIATELY.

SPRINKLER RISER

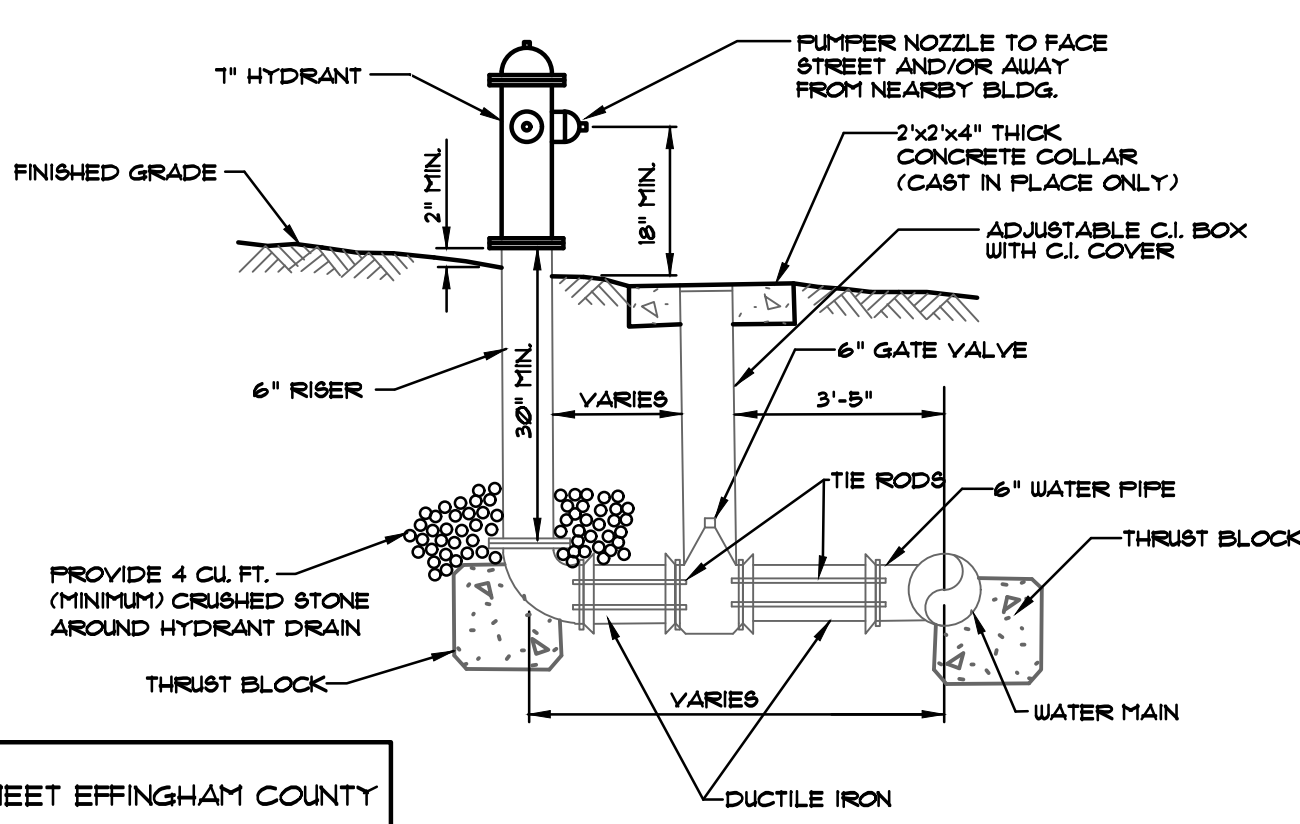
NOT TO SCALE



FIRE DEPARTMENT CONNECTION

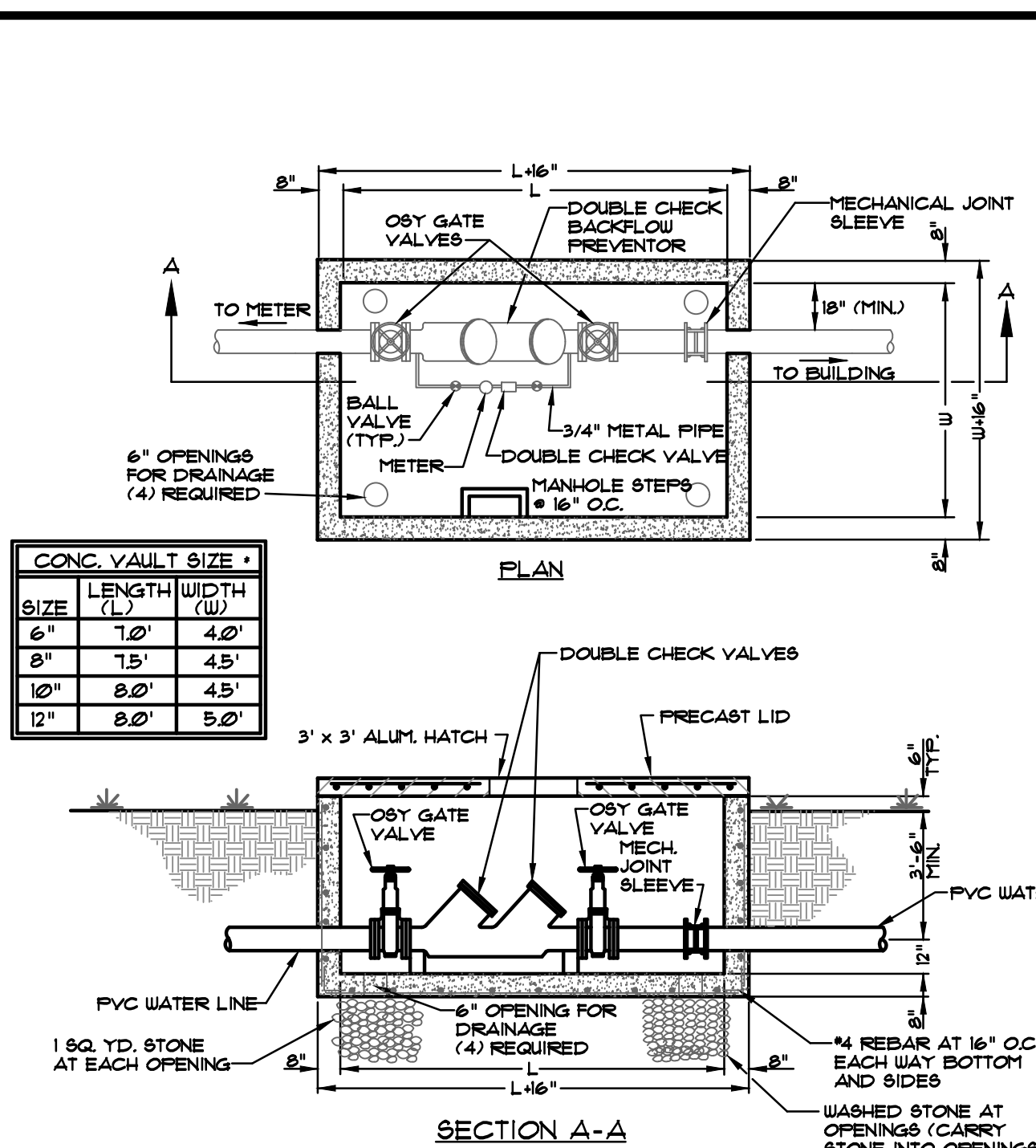
NOT TO SCALE

- NOTES:**
- BASE OF HYDRANT SHALL BE UNWRAPPED WITH A SUITABLE MATERIAL TO PREVENT BOND BETWEEN HYDRANT AND CONCRETE THRUST BLOCK.
 - LOCATE HYDRANT AS SHOWN IN PLAN VIEW.
 - HYDRANT LATERALS SHALL BE 6".
 - INSTALL 8 C.F. OF 2500 P.S.I. CONCRETE THRUST BLOCK AGAINST UNDISTURBED EARTH DO NOT BLOCK LEAK-HOLE.
 - 2" MINIMUM / 6" MAXIMUM EXPOSURE BETWEEN BOTTOM FLANGE OF HYDRANT AND FINISHED GRADE. PROVIDE EXTENSION WHERE NECESSARY.



FIRE HYDRANT

NOT TO SCALE



BACKFLOW PREVENTER

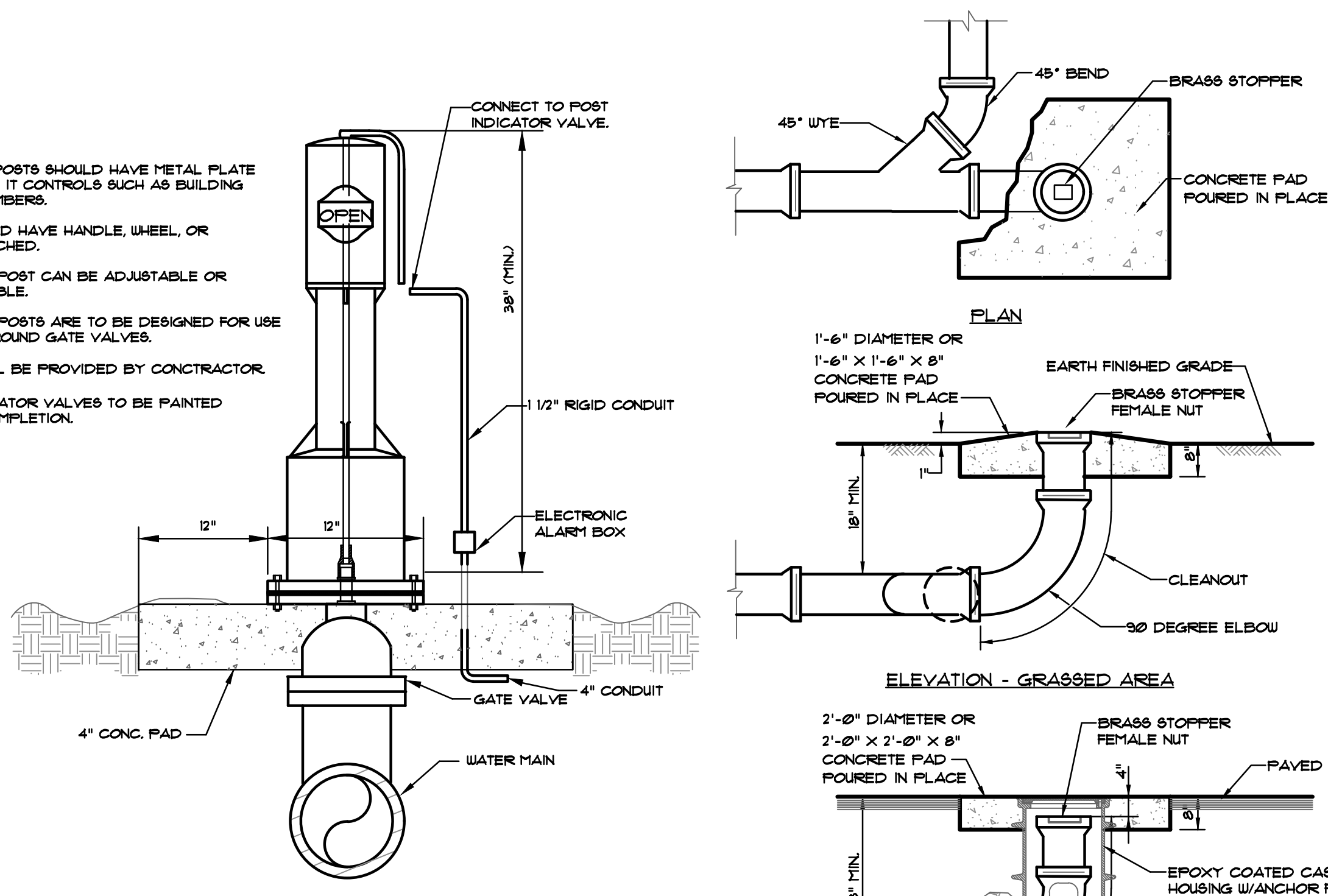
NOT TO SCALE

SIZE	LENGTH (L)	WIDTH (W)	HEIGHT (H)	WEIGHT (WGT)
2"	6.84"	2.1"	1.5"	1.2"
4"	8.64"	2.1"	2.0"	2.0"
6"	10.44"	2.1"	2.6"	2.6"
8"	12.24"	2.1"	3.2"	3.2"
10"	14.04"	2.1"	3.8"	3.8"
12"	15.84"	2.1"	4.4"	4.4"
14"	17.64"	2.1"	5.0"	5.0"
16"	19.44"	2.1"	5.6"	5.6"
18"	21.24"	2.1"	6.2"	6.2"
20"	23.04"	2.1"	6.8"	6.8"
22"	24.84"	2.1"	7.4"	7.4"
24"	26.64"	2.1"	8.0"	8.0"
26"	28.44"	2.1"	8.6"	8.6"
28"	30.24"	2.1"	9.2"	9.2"
30"	32.04"	2.1"	9.8"	9.8"
32"	33.84"	2.1"	10.4"	10.4"
34"	35.64"	2.1"	11.0"	11.0"
36"	37.44"	2.1"	11.6"	11.6"
38"	39.24"	2.1"	12.2"	12.2"
40"	41.04"	2.1"	12.8"	12.8"
42"	42.84"	2.1"	13.4"	13.4"
44"	44.64"	2.1"	14.0"	14.0"
46"	46.44"	2.1"	14.6"	14.6"
48"	48.24"	2.1"	15.2"	15.2"
50"	50.04"	2.1"	15.8"	15.8"
52"	51.84"	2.1"	16.4"	16.4"
54"	53.64"	2.1"	17.0"	17.0"
56"	55.44"	2.1"	17.6"	17.6"
58"	57.24"	2.1"	18.2"	18.2"
60"	59.04"	2.1"	18.8"	18.8"
62"	60.84"	2.1"	19.4"	19.4"
64"	62.64"	2.1"	20.0"	20.0"
66"	64.44"	2.1"	20.6"	20.6"
68"	66.24"	2.1"	21.2"	21.2"
70"	68.04"	2.1"	21.8"	21.8"
72"	69.84"	2.1"	22.4"	22.4"
74"	71.64"	2.1"	23.0"	23.0"
76"	73.44"	2.1"	23.6"	23.6"
78"	75.24"	2.1"	24.2"	24.2"
80"	77.04"	2.1"	24.8"	24.8"
82"	78.84"	2.1"	25.4"	25.4"
84"	80.64"	2.1"	26.0"	26.0"
86"	82.44"	2.1"	26.6"	26.6"
88"	84.24"	2.1"	27.2"	27.2"
90"	86.04"	2.1"	27.8"	27.8"
92"	87.84"	2.1"	28.4"	28.4"
94"	89.64"	2.1"	29.0"	29.0"
96"	91.44"	2.1"	29.6"	29.6"
98"	93.24"	2.1"	30.2"	30.2"
100"	95.04"	2.1"	30.8"	30.8"

- NOTE:**
- PLUGS:
 - WHEN MECHANICAL JOINTS ARE USED, PROTECT BOLTS AND THREADS FROM CONCRETE.
 - THRUST BLOCKING TO CONFORM TO LOCAL AUTHORITY.

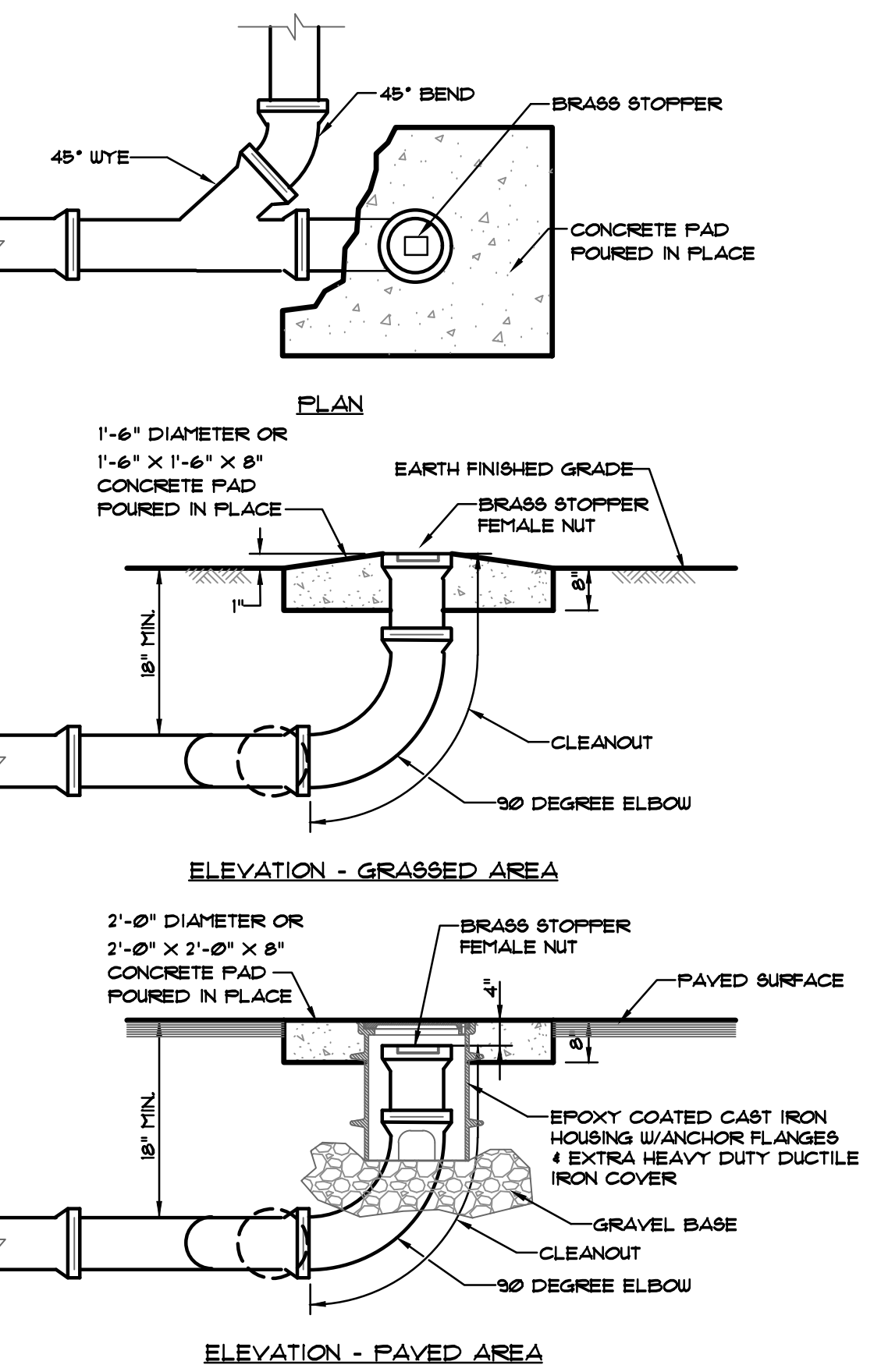
CONCRETE THRUST BLOCKS

NOT TO SCALE



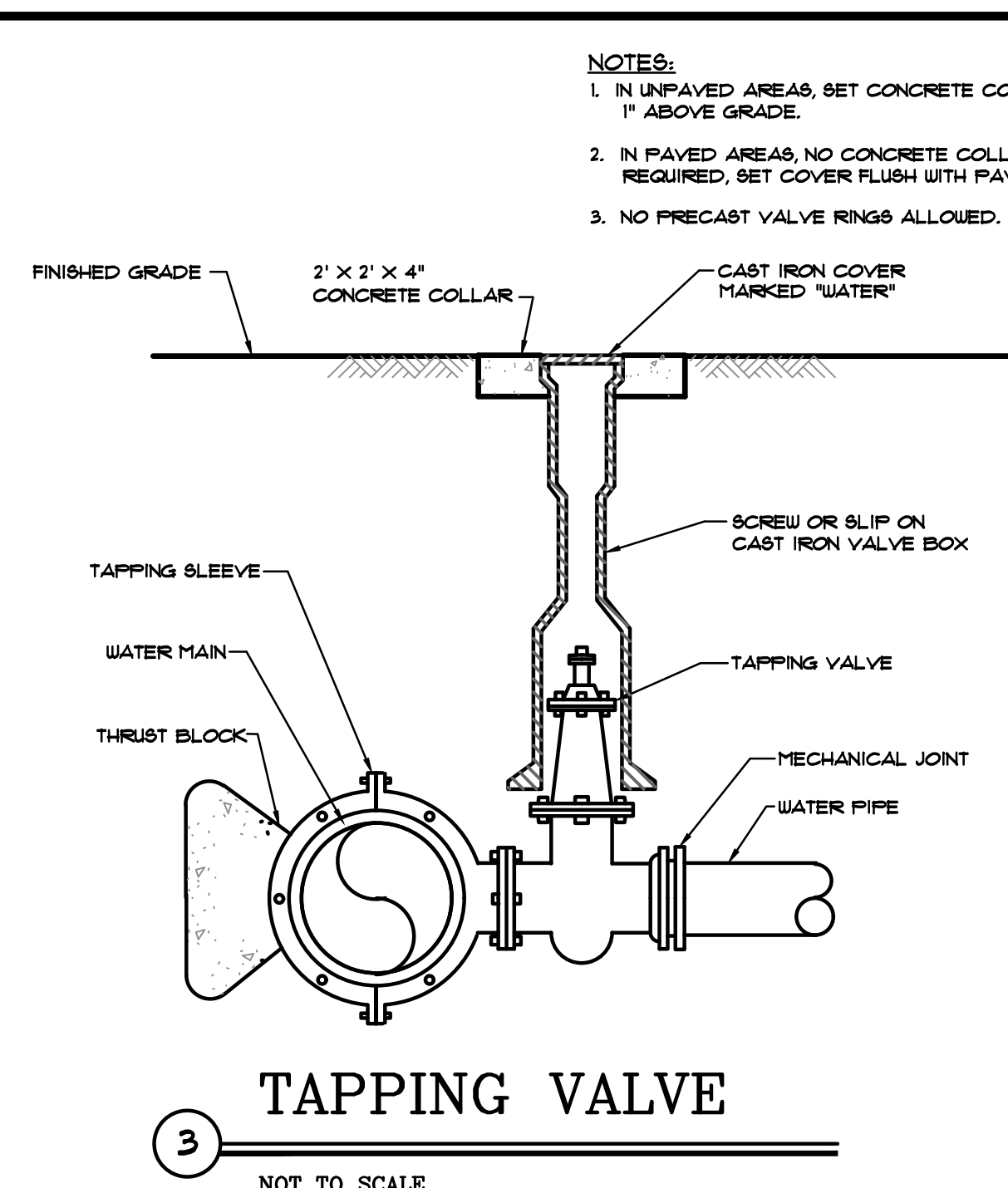
POST INDICATOR

NOT TO SCALE



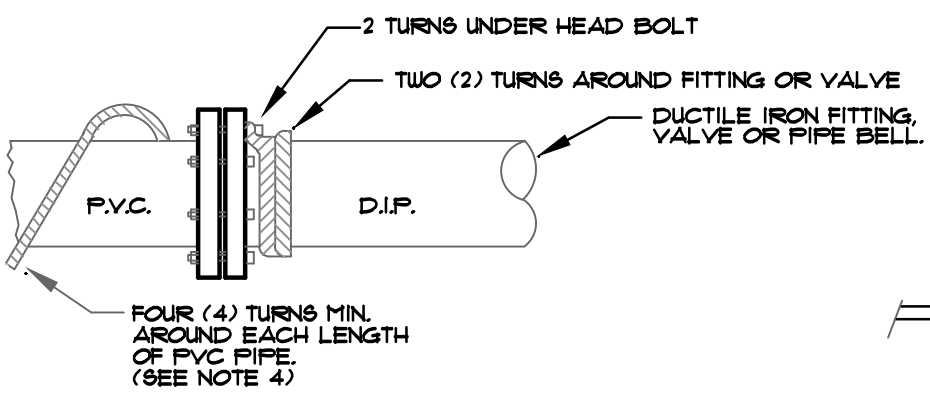
CLEANOUT

NOT TO SCALE



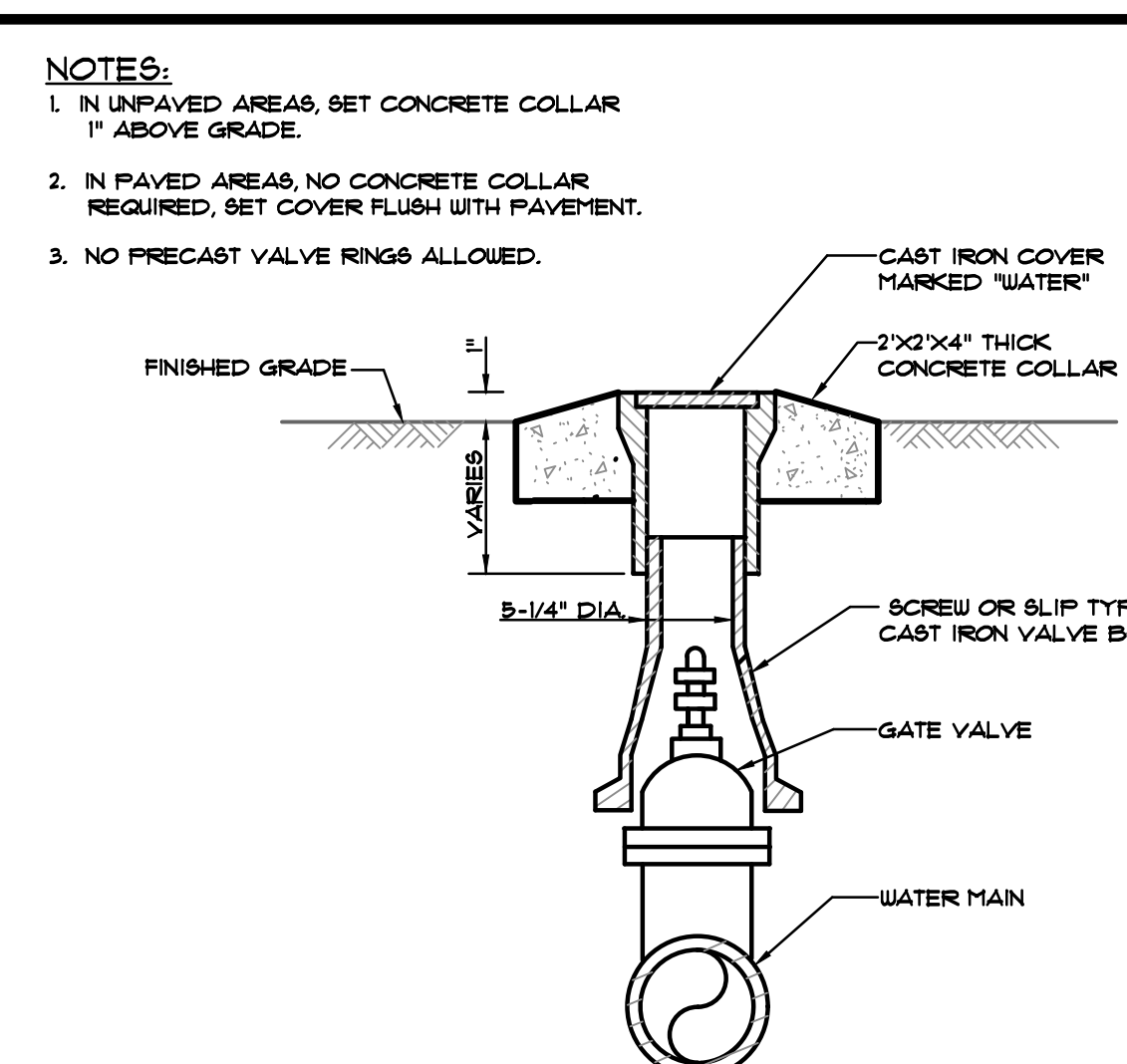
TAPPING VALVE

NOT TO SCALE



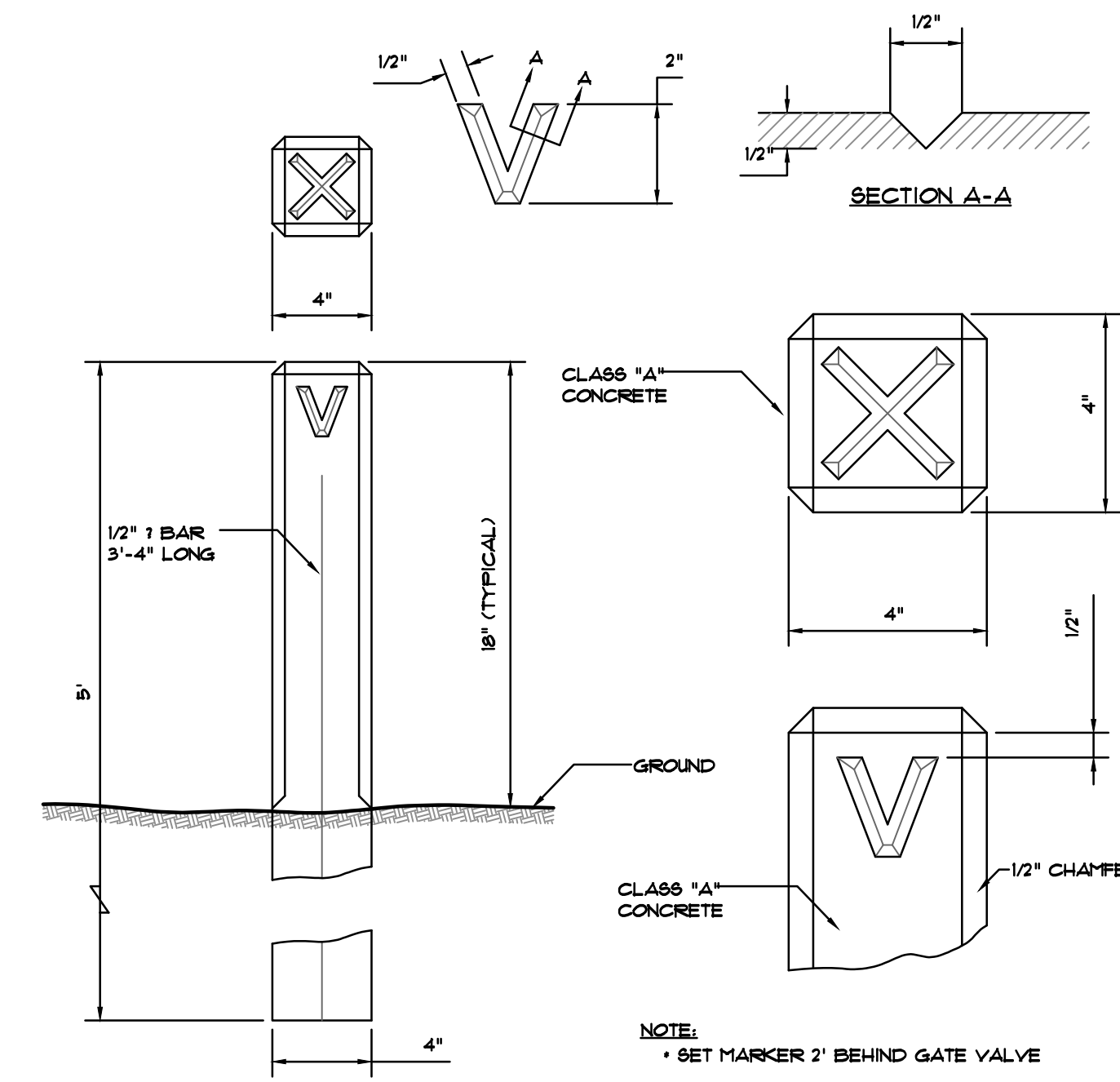
TRACER WIRE

NOT TO SCALE



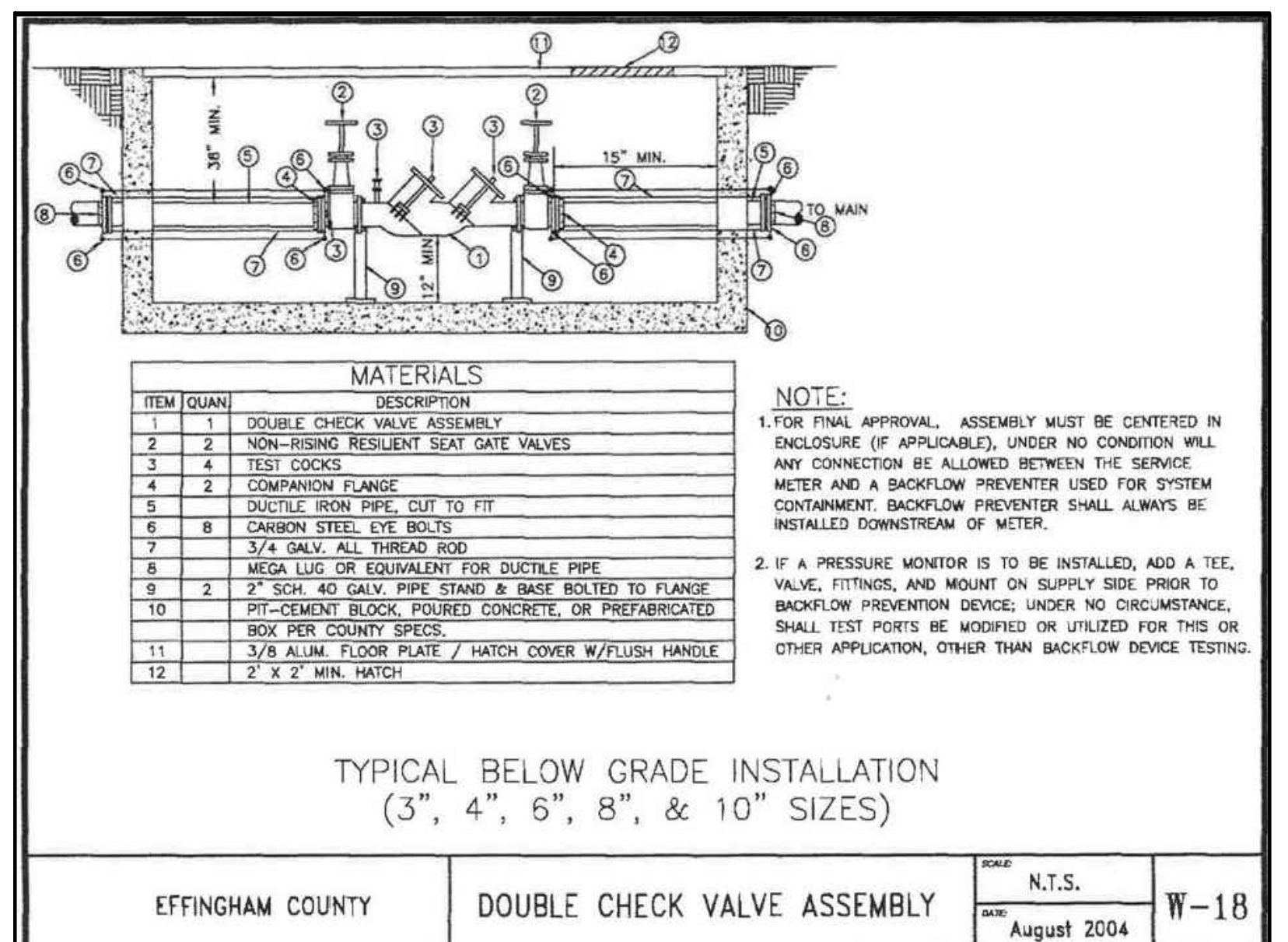
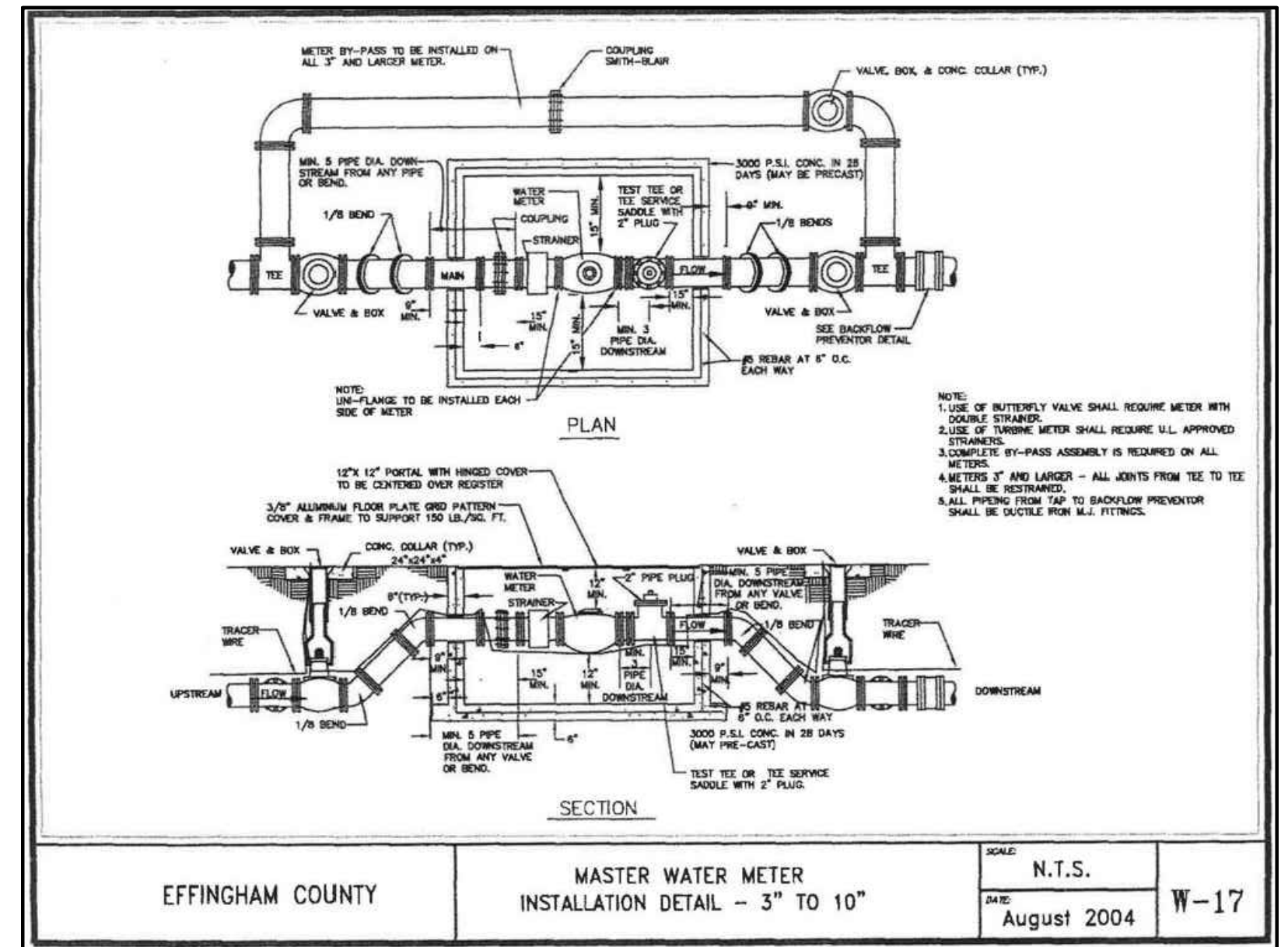
WATER VALVE BOX

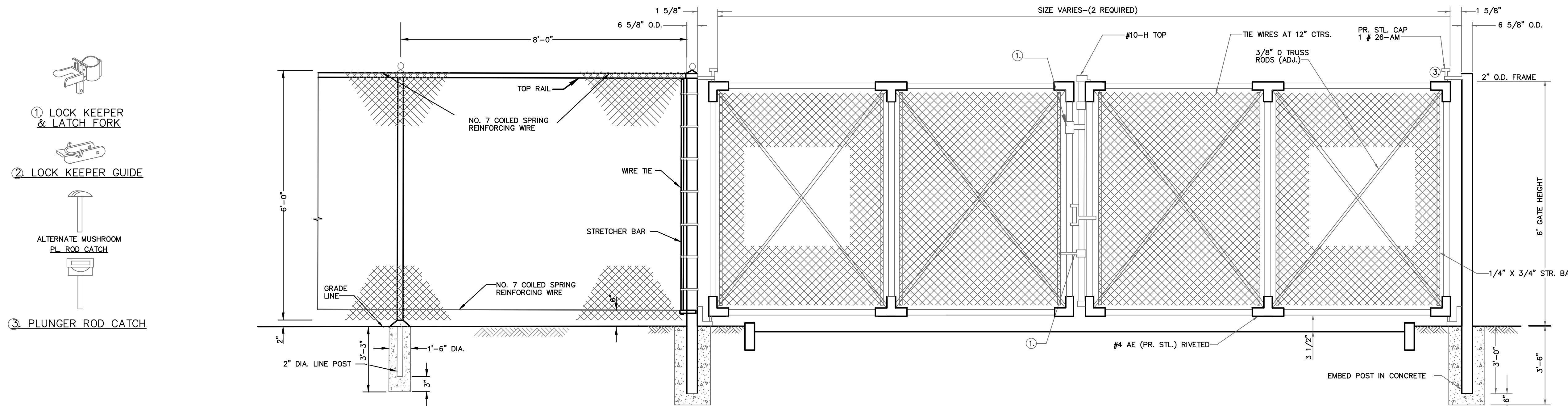
NOT TO SCALE



VALVE MARKER

NOT TO SCALE

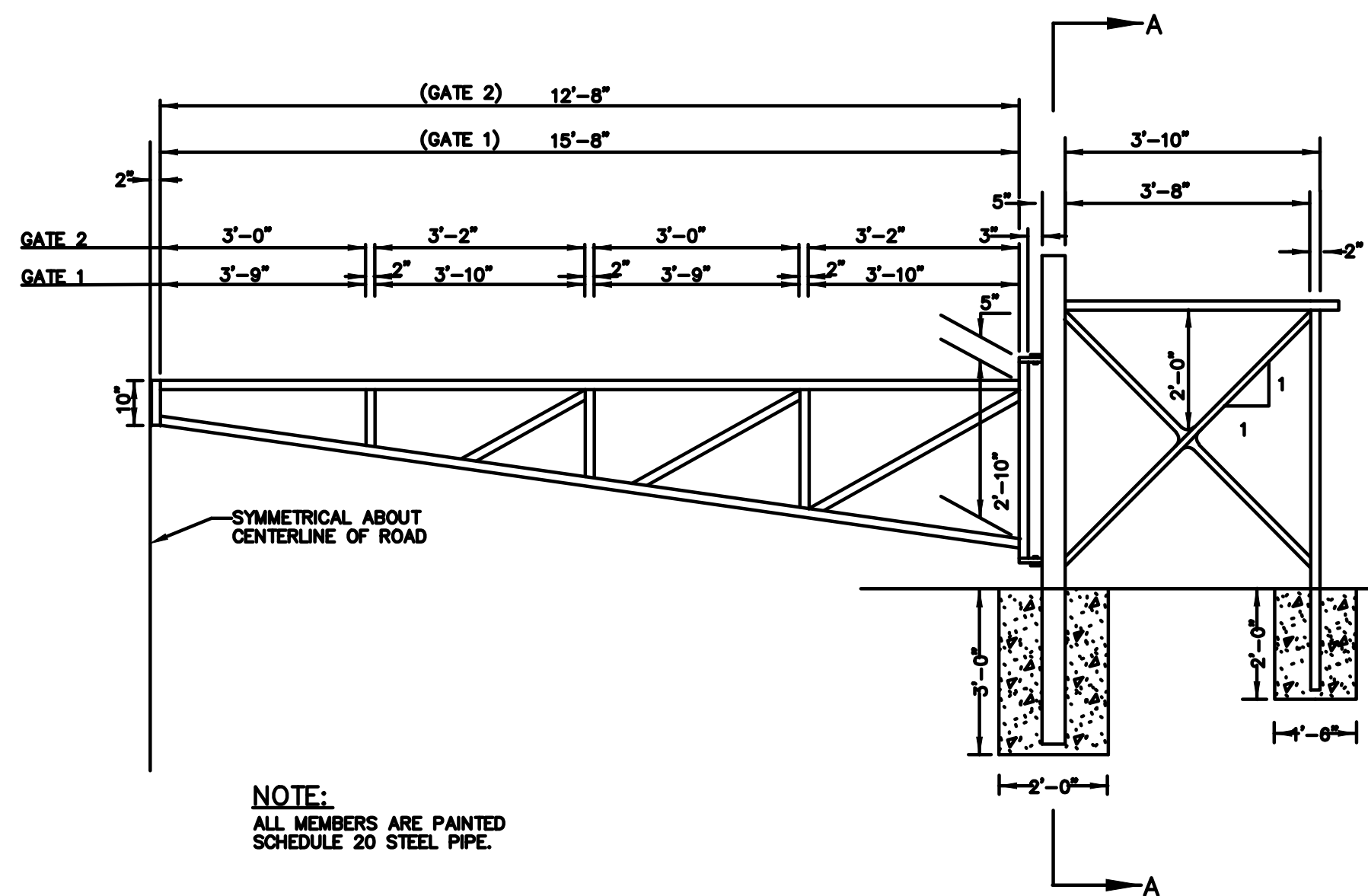




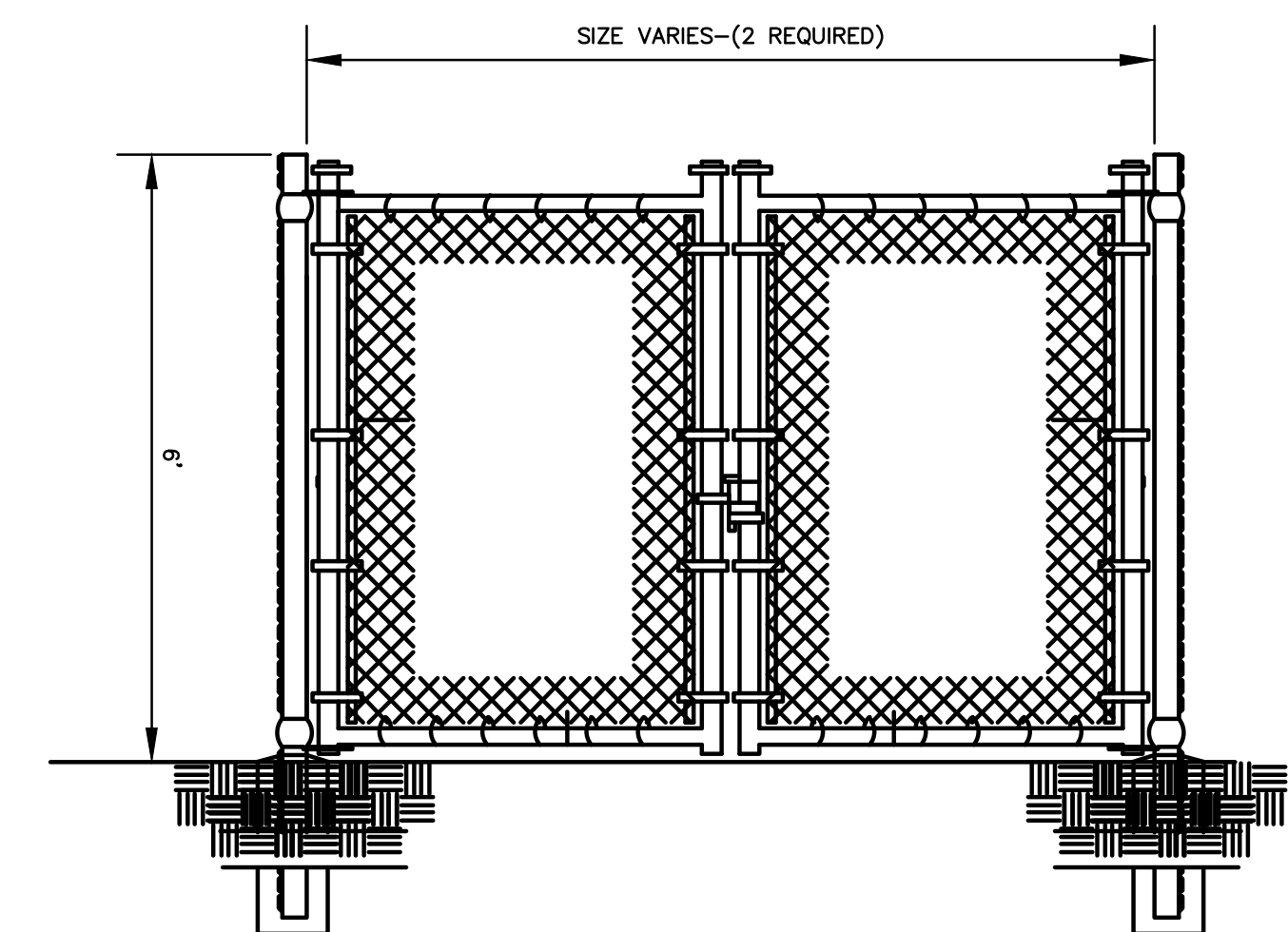
1 LARGE DOUBLE SWING GATES
NOT TO SCALE

NOTE
FOR GATES 6' OR LARGER
TWO GATES REQUIRED TO FIT
INSIDE NOTED AREA

- NOTES:
1. LOCATION OF GATES SHOWN ON PLANS.
 2. GATE 1 SHALL BE USED FOR 30' WIDE ROADS AND GATE 2 SHALL BE USED FOR 24' WIDE ROADS.
 3. CONTRACTOR SHALL FIELD VERIFY ROAD DIMENSIONS PRIOR TO CONSTRUCTING GATES.

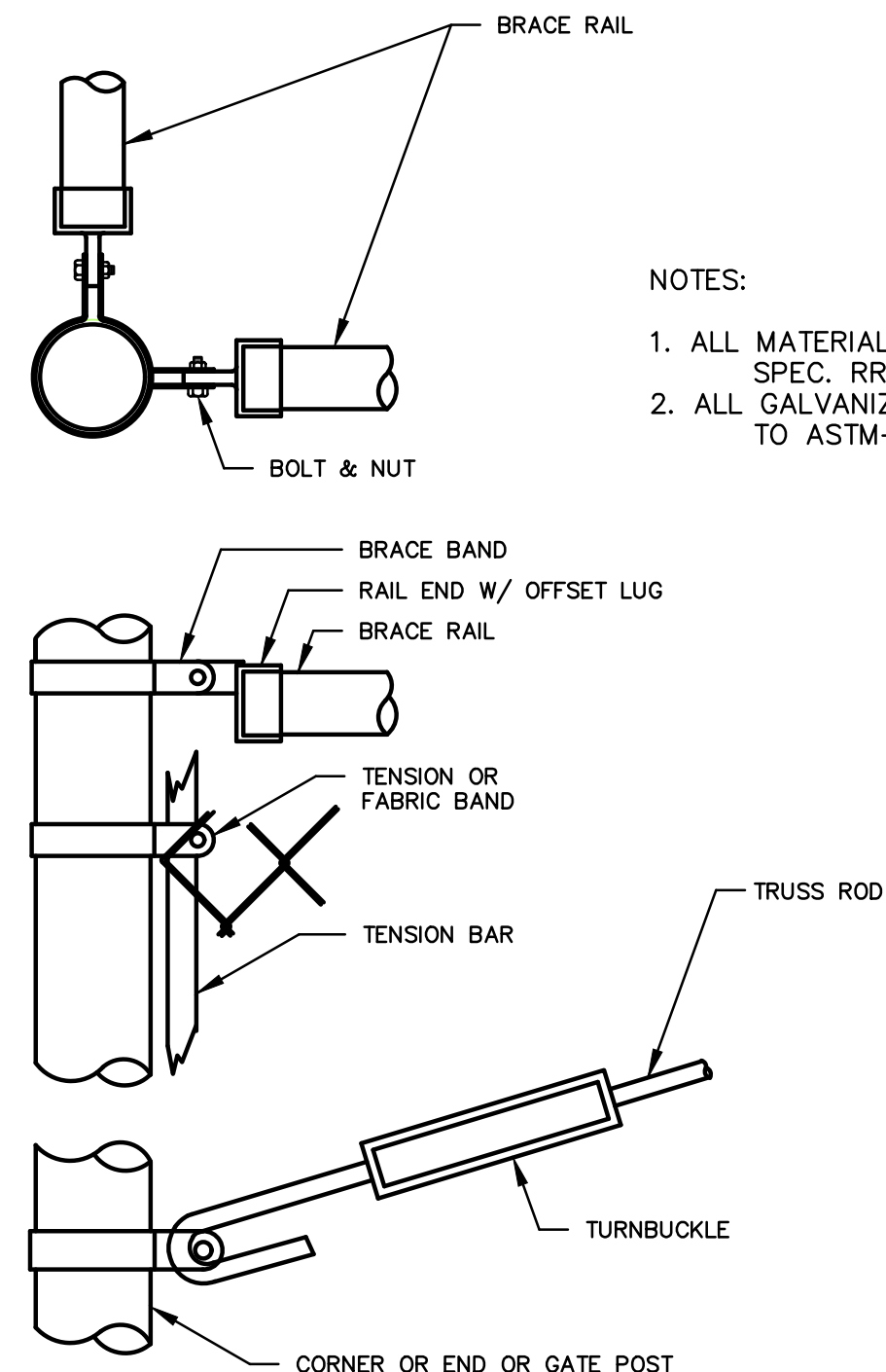
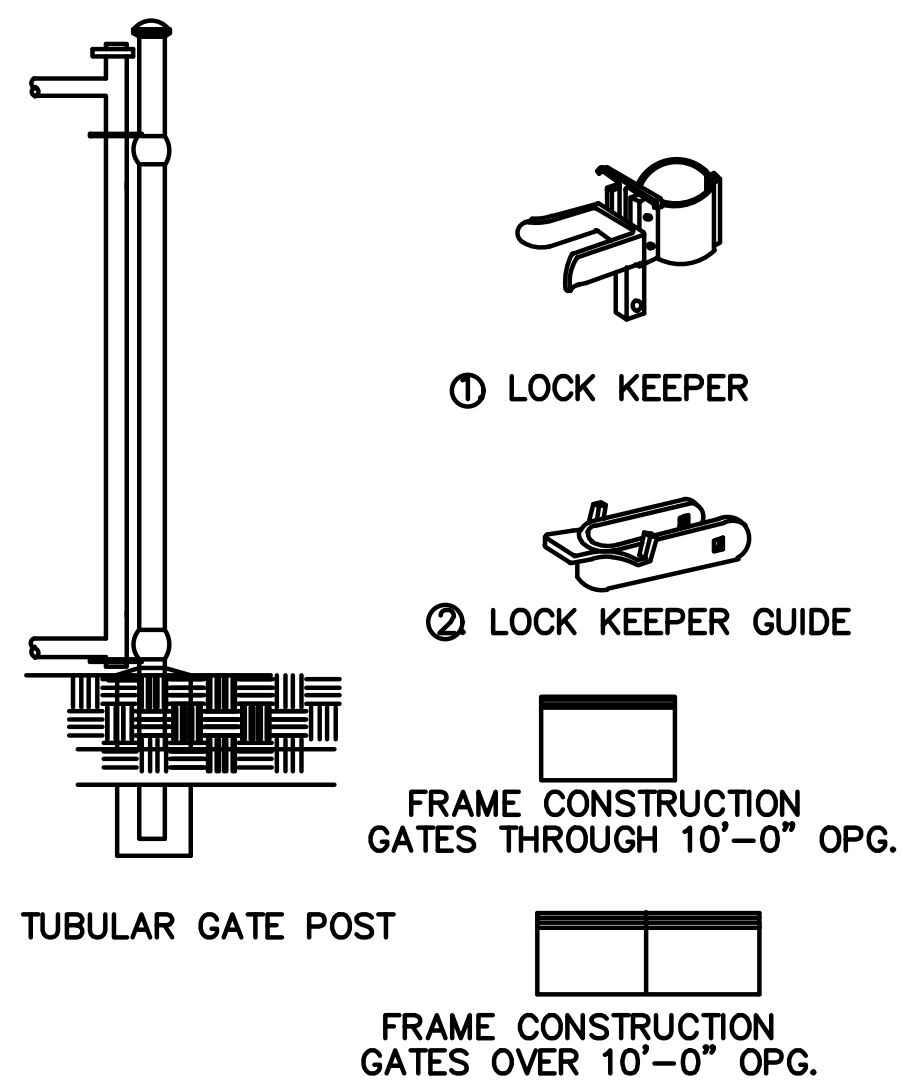


3 SECURITY GATE DETAIL
NOT TO SCALE



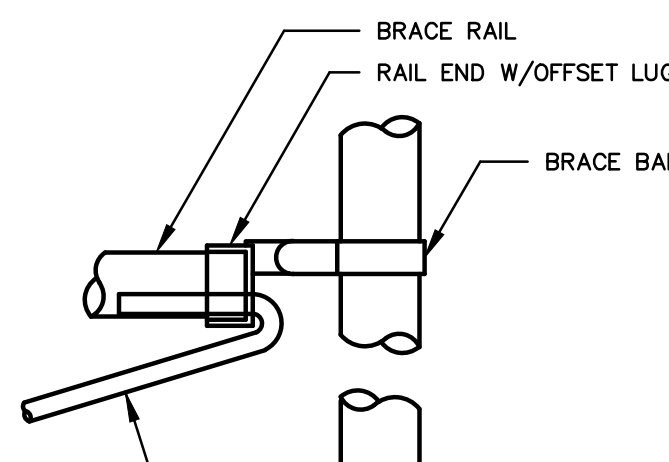
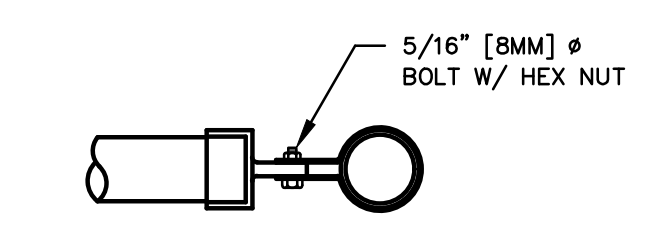
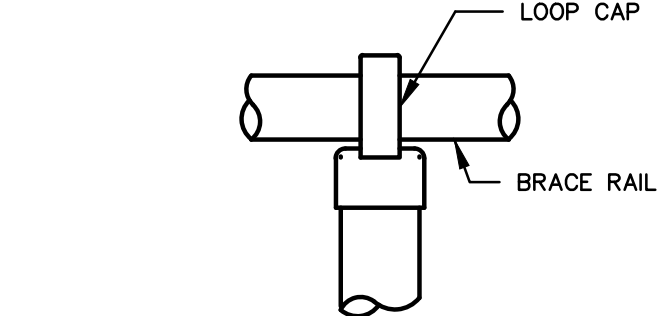
4 SMALL DOUBLE SWING GATE
NOT TO SCALE

NOTE
FOR GATES SMALLER THAN 6'
TWO GATES REQUIRED TO FIT
INSIDE NOTED AREA



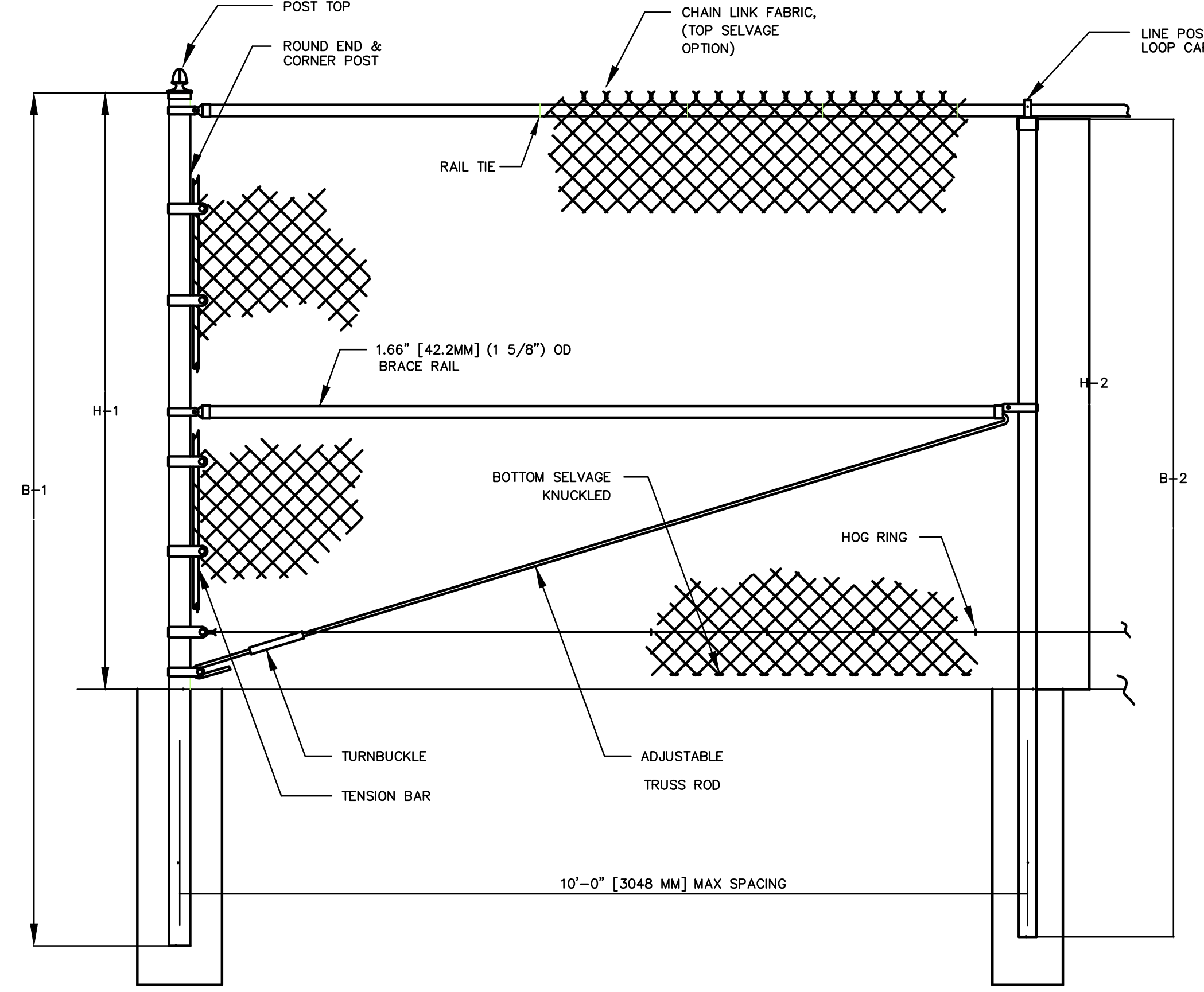
END, CORNER, OR GATE POST
ELEVATION

ROUND TERMINAL POSTS



LINE POST
ELEVATION

- NOTES:
1. ALL MATERIAL TO CONFORM TO FEDERAL SPEC. RR-F-191G (1-25-74).
 2. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM-A153.

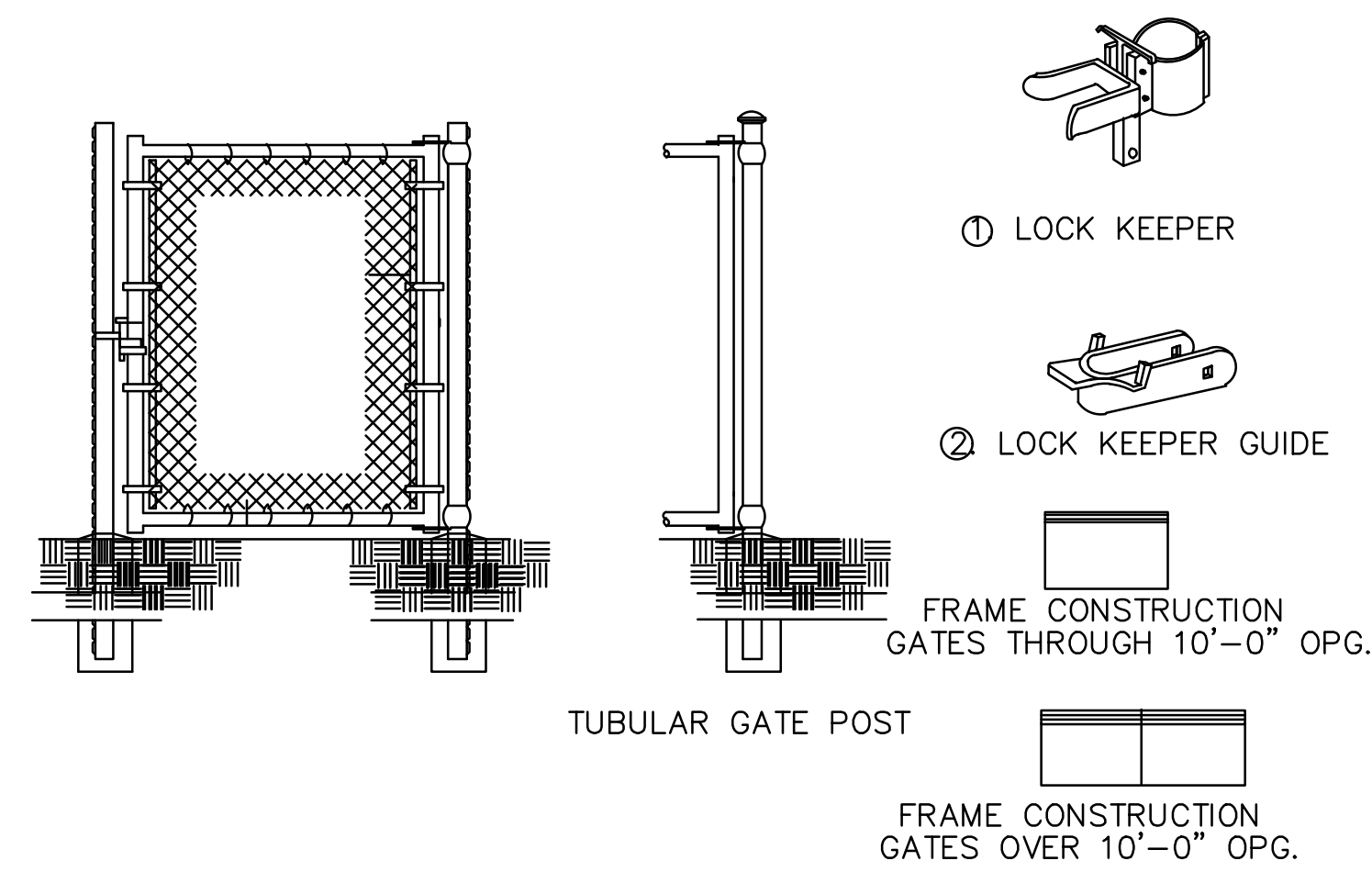


- NOTES:
1. METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
 2. SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTURER ONLY.
 3. FOOTING WIDTH TO BE (4)X POST WIDTH.

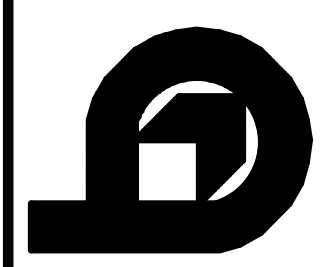
END & CORNER POST TOP OPTIONS		TOP & BOTTOM FABRIC OPTIONS	
STANDARD	DOVE	TWIST	KNUCKLE

UPRIGHT END & CORNER POSTS		LINE POSTS	
B-1 BAR LENGTH	H-1 HEIGHT ABOVE GRADE	B-2 BAR LENGTH	H-2 HEIGHT ABOVE GRADE
8'-0"	4'-0"	7'-0"	4'-0"
10'-0"	6'-0"	9'-0"	6'-0"
12'-0"	8'-0"	11'-0"	8'-0"
14'-0"	10'-0"	13'-0"	10'-0"

5 CHAIN LINK FENCE DETAIL
NOT TO SCALE



2 SINGLE SWING GATE
NOT TO SCALE



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CONSTRUCTION DETAILS

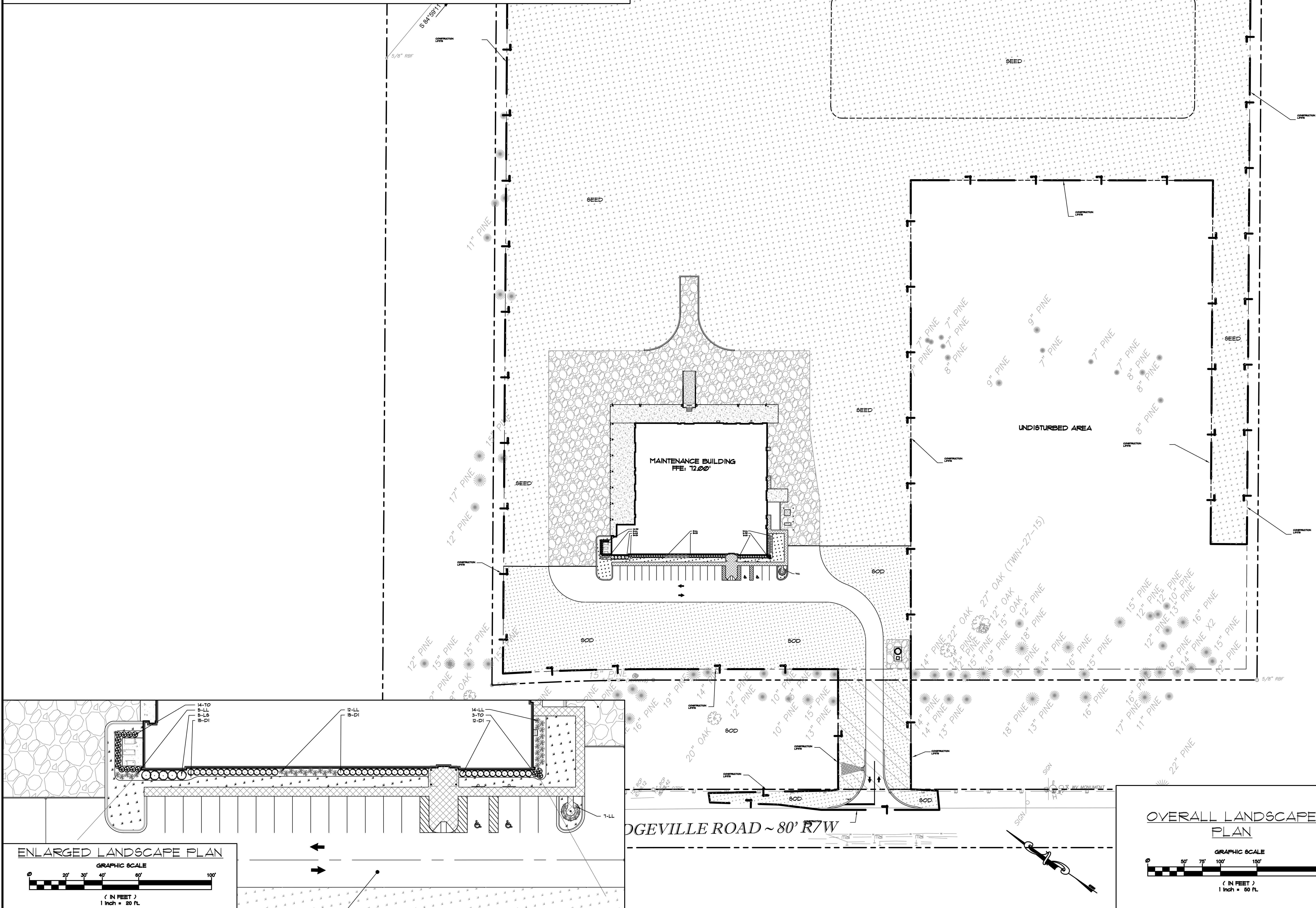


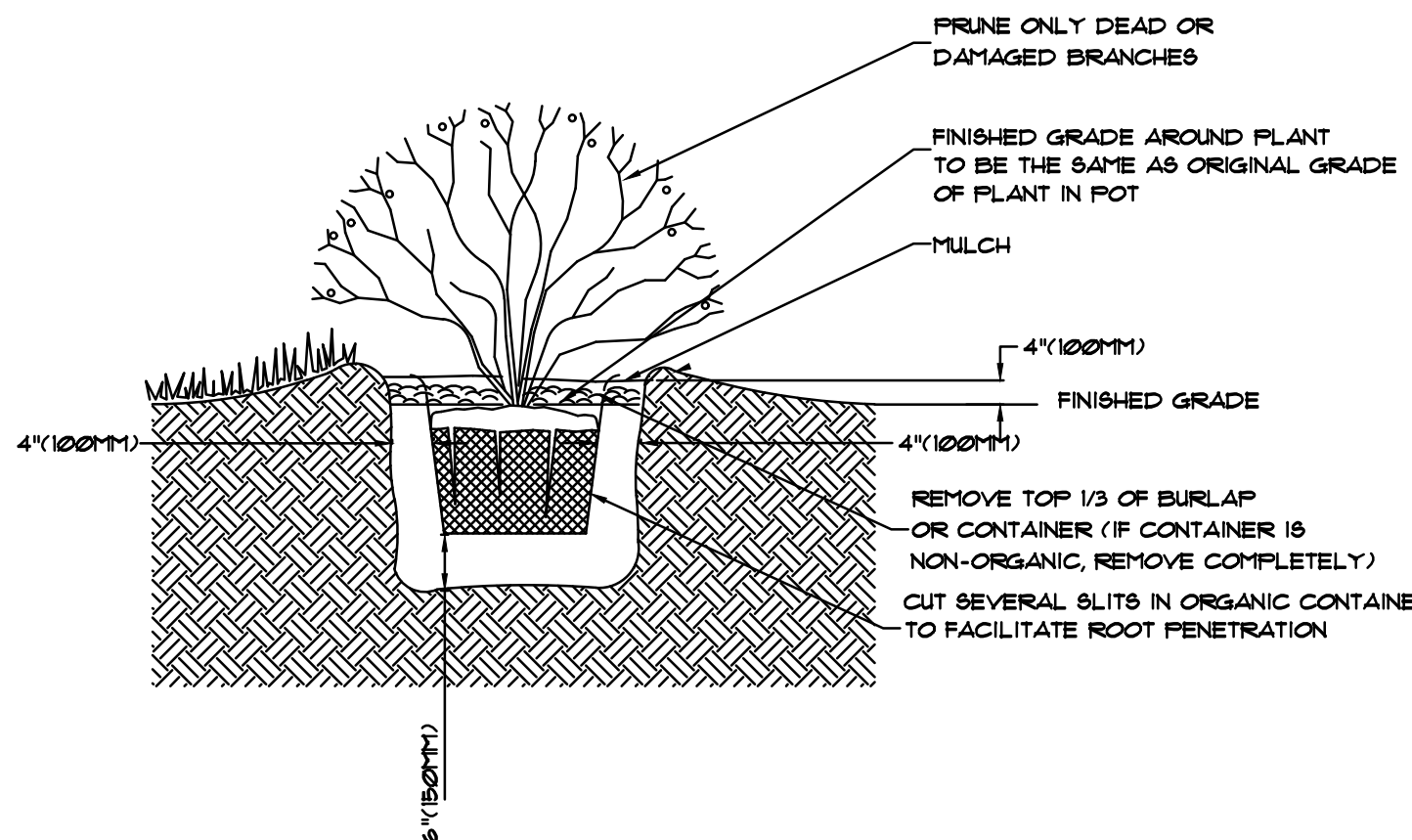
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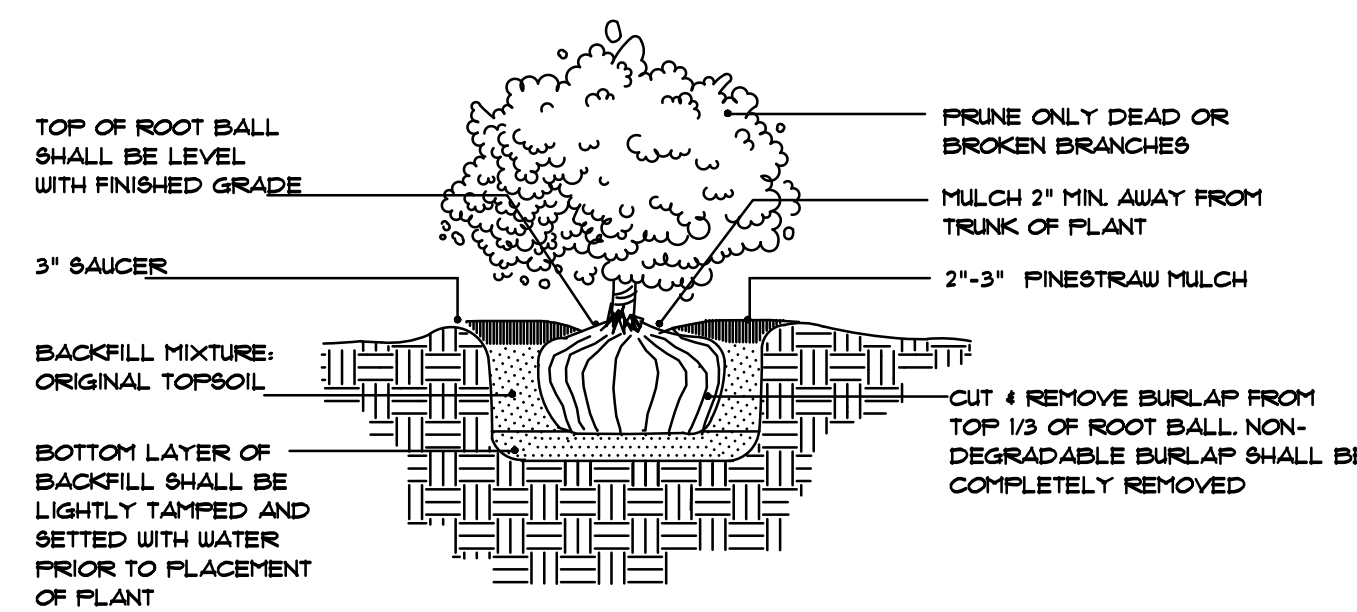
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OVERALL LANDSCAPE SCHEDULE					
SYMBOL	BOTANICAL NAME	COMMON NAME	QTY	PLANTING SIZE	COMMENTS
DI	DISTYLUM 'BAYOU BLISS'	BAYOU BLISS DISTYLUM	42	3 GAL	
HP	HYDRANGEA PANICULATA	LIMELIGHT HYDRANGEA	5	3 GAL	
TO	THUJA OCCIDENTALIS	EMERALD GREEN ARBORVITEA	17	3 GAL	FULL TO GROUND
GRASSES AND GROUNDCOVER					
LL	LOMANDRA LONGIFOLIA	BREEZE GRASS	38	1 GAL	
SOD	COMMON BERMUDA SOD				
SEED	BERMUDA SEED				

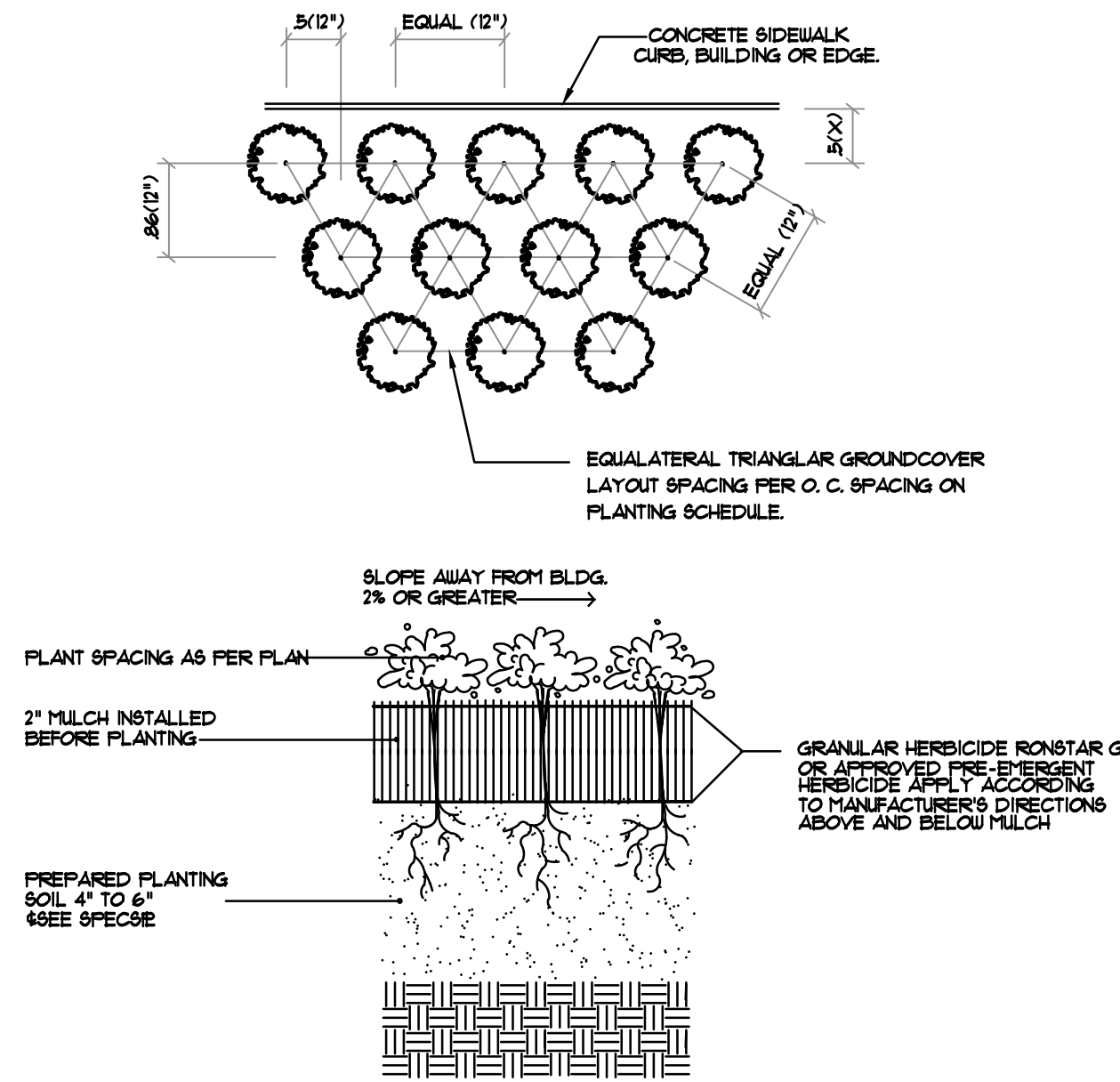




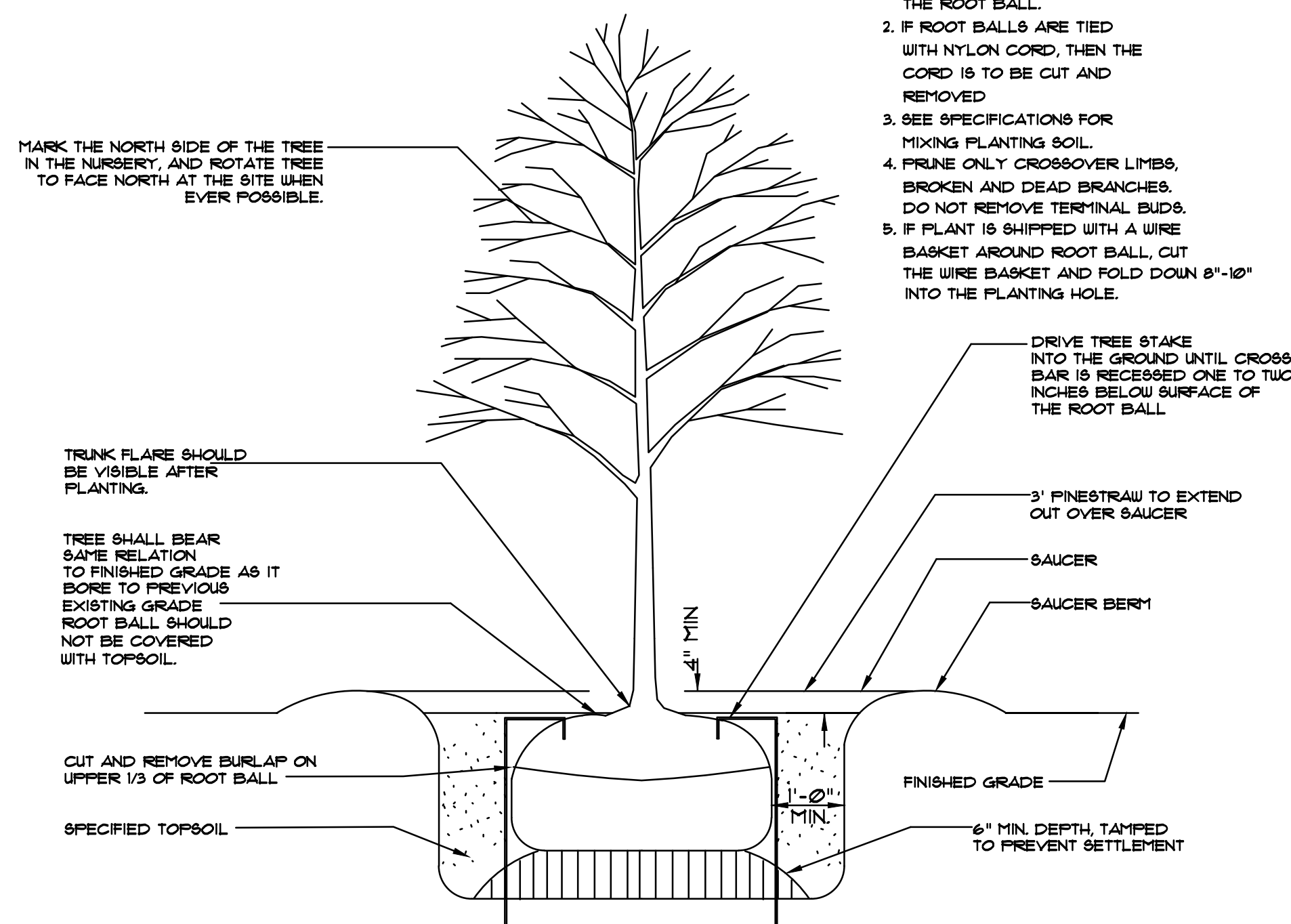
1 SHRUB PLANTING
CONTAINER OR POTTED- NTS



2 SHRUB PLANTING
BALLED AND BURLAP SHRUB- NTS



3 GROUNDCOVER PLANTING
BAREROOT OR CONTAINER- NTS



GATOR BAGS SHOULD BE USED ON ALL TRANSPLANTED AND NEW TREES NOT RECEIVING IRRIGATION.

4 TREE PLANTING & STAKING
NOT TO SCALE

NOTES:

1. IF PLASTIC WRAP IS USED ON 4\"/>

LANDSCAPE AND IRRIGATION NOTES

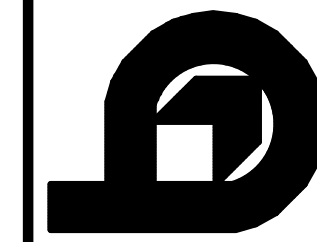
1. THERE ARE ACTIVE UTILITIES WITHIN THE PROJECT AREA WHERE IRRIGATION AND PLANTING IS TO OCCUR. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF UTILITIES DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS.
3. ALL DISTURBED AREAS NOT RECEIVING PAVEMENT, ARE TO BE STABILIZED WITH VEGETATIVE MATERIAL SPECIFIED.
4. ALL DAMAGES TO UTILITIES SHALL BE THE RESPONSIBILITY AND COST INCURRED FOR REPAIRS SHALL BE PAID BY THE CONTRACTOR.
5. ALL PROPOSED MATERIAL SHALL BE THAT SPECIFIED. PLANT MATERIAL SUBSTITUTIONS SHALL BE APPROVED PRIOR TO ORDERING. IF ADDITIONAL COST IS INCURRED DUE TO LIMITATIONS OF SPECIES, PLANTING SEASON OR TYPE OF PLANTING THE CONTRACTOR SHALL PROVIDE MATERIALS AT NO ADDITIONAL COST.
6. EXISTING SOD, PLANTINGS OR OTHER LANDSCAPING SHALL BE REPLACED BY THE CONTRACTOR IF DAMAGED DURING CONSTRUCTION. REPLACEMENT MATERIAL SHALL BE OF EQUIVALENT SIZE, QUALITY AND TYPE AS EXISTING.
7. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY CURRENT AMERICAN STANDARD FOR NURSERY STOCK.
8. NO PLANTING SHALL OCCUR BEFORE GRADING HAS BEEN COMPLETED AND APPROVED.
9. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
10. ALL PLANTS SHALL BE BALLED AND BURLAP OR CONTAINER GROWN AS SPECIFIED. CONTAINER GROWN STOCK WILL NOT BE ACCEPTED IF ROOT BOUND. ALL SYNTHETIC OR PLASTIC WRAPPING SHALL BE REMOVED FROM PLANTS AT TIME OF PLANTING.
11. THE LOCATION AND PLACEMENT OF ALL PLANT MATERIAL SHOULD BE APPROVED BY PROJECT LANDSCAPE ARCHITECT OR EQUAL PRIOR TO PLANTING.
12. ALL PLANTS SHALL BE INSTALLED AS PER DETAILS AND THE CONTRACT SPECS.
13. THE LANDSCAPE CONTRACTOR SHALL PROVIDE FILL AS PER THE CONTRACT SPECS.
14. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOURS AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY, IF NECESSARY, DURING THE FIRST GROWING SEASON. CONTRACTOR IS RESPONSIBLE FOR WATERING ALL PLANT MATERIAL AS IS NEEDED.
15. CONTRACTOR TO USE TERRA-SORB HYDRO-GEL (OR EQUIVALENT) WHEN PLANTING SOD, TREES, SHRUBS AND GROUNDCOVER WHERE IRRIGATION IS NOT AVAILABLE. SEE MANUFACTURER'S LABELS FOR APPLICATION INSTRUCTIONS.
16. CONTRACTOR SHALL INSTALL GATOR BAGS ON ALL TRANSPLANTED AND NEW TREES AND SHOULD KEEP BAGS FILLED WITH WATER AND MAINTAINED AS SPECIFIED BY THE CITY ARBORIST.
17. REFER TO THE CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PLANTINGS AND PLANTING BEDS

1. ALL PLANTS SHALL BE INSPECTED CAREFULLY UPON ARRIVAL TO THE SITE. PLANTS WITH WOUNDS OR BROKEN BRANCHES WILL NOT BE ACCEPTED. ROOT BOUND CONTAINER STOCK WILL NOT BE ACCEPTED.
2. PLANTING HOLES SHALL BE TWICE THE WIDTH OF THE PLANT'S ROOT BALL BUT NOT DEEPER.
3. BURLAP MAY BE LEFT IN PLACE IF THE TOP THIRD IS REMOVED FROM THE ROOT BALL. PLASTICS OR SYNTHETIC MATERIAL AROUND ROOT BALLS SHALL BE REMOVED COMPLETELY BEFORE PLANTING.
4. PLANTING HOLES SHALL BE BACKFILLED WITH THE SAME SOIL THAT WAS REMOVED. AMENDMENTS SUCH AS COMPOST, FEAT AND SAND SHOULD NOT BE USED.
5. TRUNK WRAPPING SHOULD NOT BE USED.
6. STAKING SHOULD BE AVOIDED IF NOT SPECIFIED. UNUSUALLY WINDY SITES OR SPECIMEN TREES MAY REQUIRE STAKING FOR THE FIRST TWO GROWING SEASONS.
7. ONLY DEAD OR DAMAGED BRANCHES SHOULD BE PRUNED OFF OF PLANT MATERIAL AFTER PLANTING.
8. A MINIMUM OF 4\"/>
9. TREES LOCATED OUTSIDE OF PLANTING BEDS SHOULD HAVE 6' DIAMETER PINE STRAW MULCH RING AROUND BASE AFTER PLANTING.
10. PLANTINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LANDSCAPE INDUSTRY STANDARDS.
11. PINE STRAW SHALL BE FREE OF CONES, STICKS AND DEBRIS.
12. SEE CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR TREES, PLANTS AND GROUNDCOVER.
13. TREES NOT RECEIVING IRRIGATION SHOULD BE IRRIGATED USING GATOR BAGS.
13. WEED FABRIC SHOULD BE INSTALLED IN ALL BEDS ALONG WITH PINE STRAW.

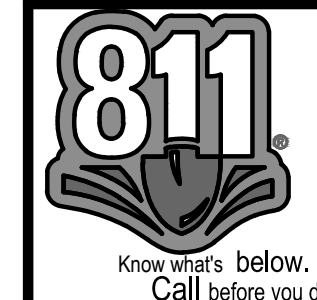
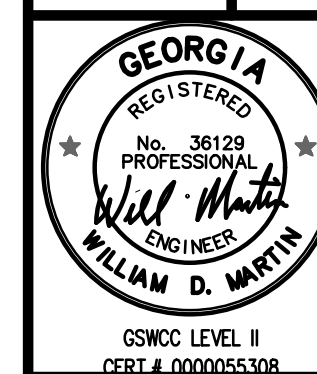
GRASSED AREAS

1. IN AREAS WHERE IRRIGATION IS INDICATED. IRRIGATION SHALL BE INSTALLED PRIOR TO INSTALLATION OF GRASSING AND LANDSCAPING.
2. ALL AREAS TO RECEIVE SOD SHALL BE ROLLED, PRIOR TO AND AFTER INSTALLATION OF SOD. AREA SHALL BE ROLLED WITH A MINIMUM OF 200 LB ROLLER. SEEDED AND SPRIGGED AREAS SHALL BE ROLLED AFTER INSTALLATION ONLY.
3. WHEAT STRAW MULCH SHALL BE APPLIED AFTER SEEDING OR SPRIGGING GRASS AREAS.
4. CONTRACTOR SHOULD BE RESPONSIBLE FOR FIRST MOWING OF GRASS AFTER IT HAS BECOME ESTABLISHED. SEE SPECIFICATIONS FOR ADDITIONAL MOWING REQUIREMENTS.
5. CONTRACTOR SHOULD BE RESPONSIBLE FOR WATERING SOD UNTIL IT HAS BECOME ESTABLISHED.
6. SEE CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR LAWNS AND GRASSES.



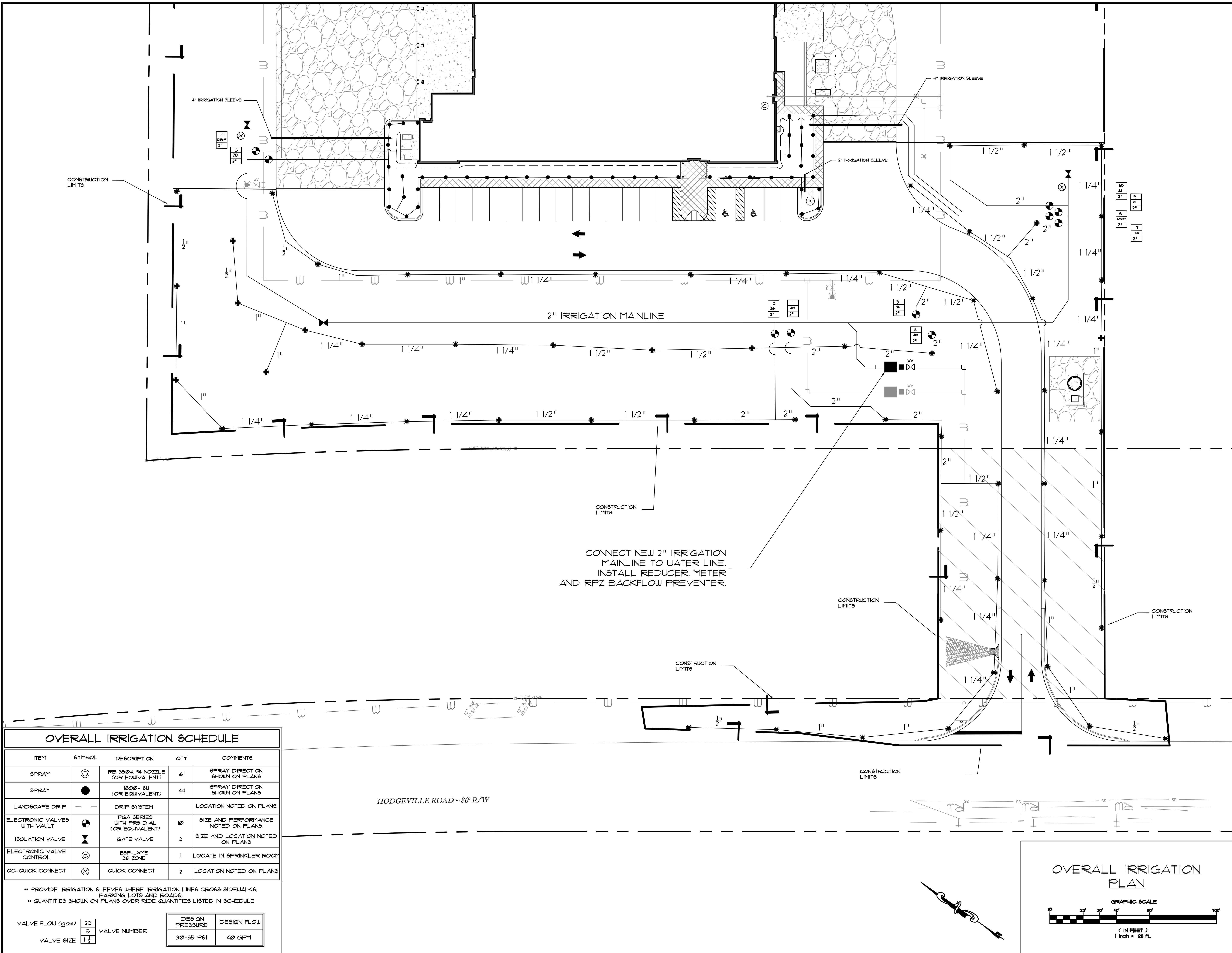
EFFINGHAM COUNTY B.O.E. MAINTENANCE FACILITY
GUTTON
EFFINGHAM COUNTY BOARD OF EDUCATION
GEORGIA
JAMES W. BUCKLEY & ASSOCIATES INC. - ARCHITECTS, CIVIL ENGINEERS
SAVANNAH, ALBANY, FORT VALLEY, AND SAVANNAH, GEORGIA

LANDSCAPE NOTES AND DETAILS



ISSUED FOR	BID
DRAWN BY	JWR
CHECKED BY	WDM
APPROVED BY	12-6-2024
DATE	22-065
PROJECT NO.	

SHEET NUMBER
L1.1



OVERALL IRRIGATION SCHEDULE

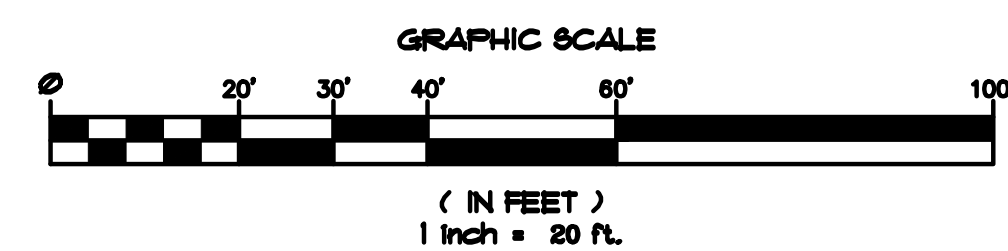
ITEM	SYMBOL	DESCRIPTION	QTY	COMMENTS
SPRAY	☉	RS 3504, 1/4" NOZZLE (OR EQUIVALENT)	61	SPRAY DIRECTION SHOWN ON PLANS
SPRAY	●	1800-80 (OR EQUIVALENT)	44	SPRAY DIRECTION SHOWN ON PLANS
LANDSCAPE DRIP	—	DRIP SYSTEM		LOCATION NOTED ON PLANS
ELECTRONIC VALVES WITH VAULT	⊙	PSA SERIES WITH PRS DIAL (OR EQUIVALENT)	10	SIZE AND PERFORMANCE NOTED ON PLANS
ISOLATION VALVE	⌵	GATE VALVE	3	SIZE AND LOCATION NOTED ON PLANS
ELECTRONIC VALVE CONTROL	⊙	ESP-LXME 36 ZONE	1	LOCATE IN SPRINKLER ROOM
QC-QUICK CONNECT	⊗	QUICK CONNECT	2	LOCATION NOTED ON PLANS

** PROVIDE IRRIGATION SLEEVES WHERE IRRIGATION LINES CROSS SIDEWALKS, PARKING LOTS AND ROADS.
** QUANTITIES SHOWN ON PLANS OVER RIDE QUANTITIES LISTED IN SCHEDULE

VALVE FLOW (gpm)	23
VALVE NUMBER	5
VALVE SIZE	1-1/2"

DESIGN PRESSURE	DESIGN FLOW
30-35 PSI	40 GPM

OVERALL IRRIGATION PLAN



EFFINGHAM COUNTY B.O.E. MAINTENANCE FACILITY
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SAVANNAH, ALBANY, FORT VALLEY AND SAVANNAH, GEORGIA

OVERALL IRRIGATION PLAN

811
Know what's below.
Call before you dig.

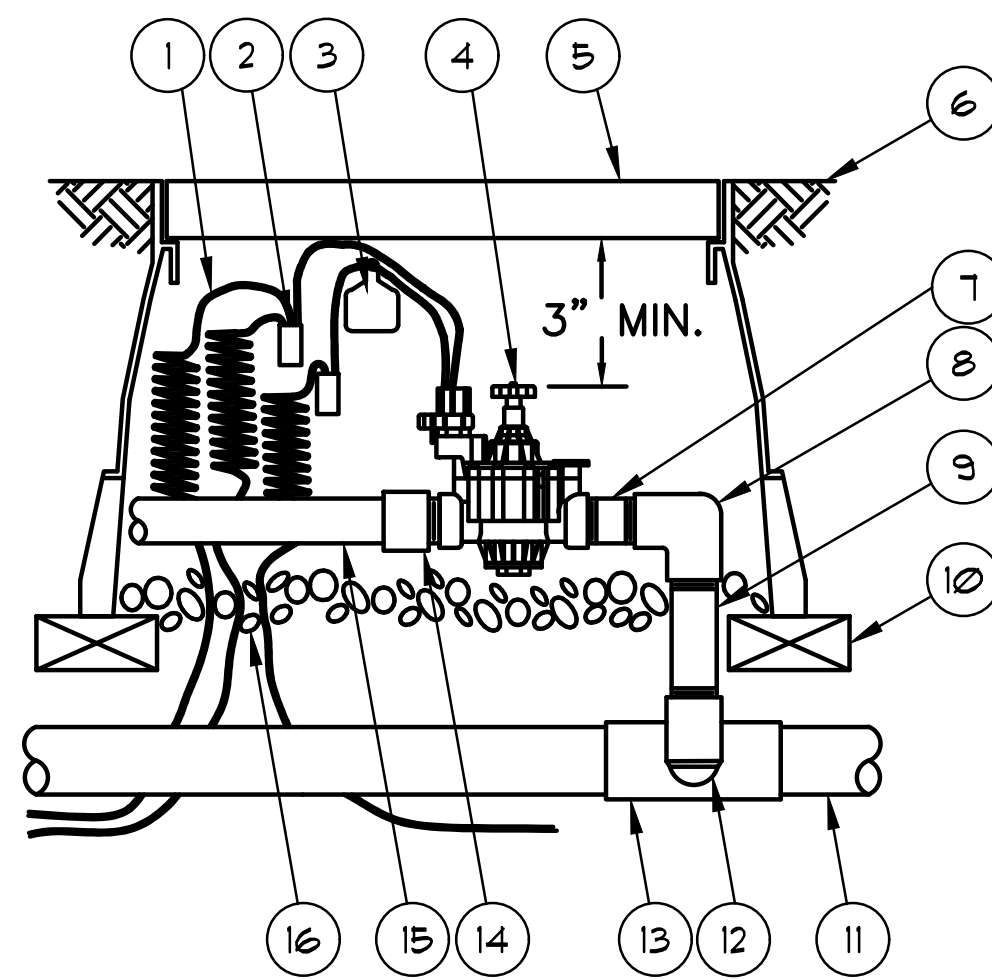
ISSUED FOR
BID

JWR
DRAWN BY

ORDERED BY
WDM
APPROVED BY
12-20-2024
DATE
22-065
PROJECT NO.

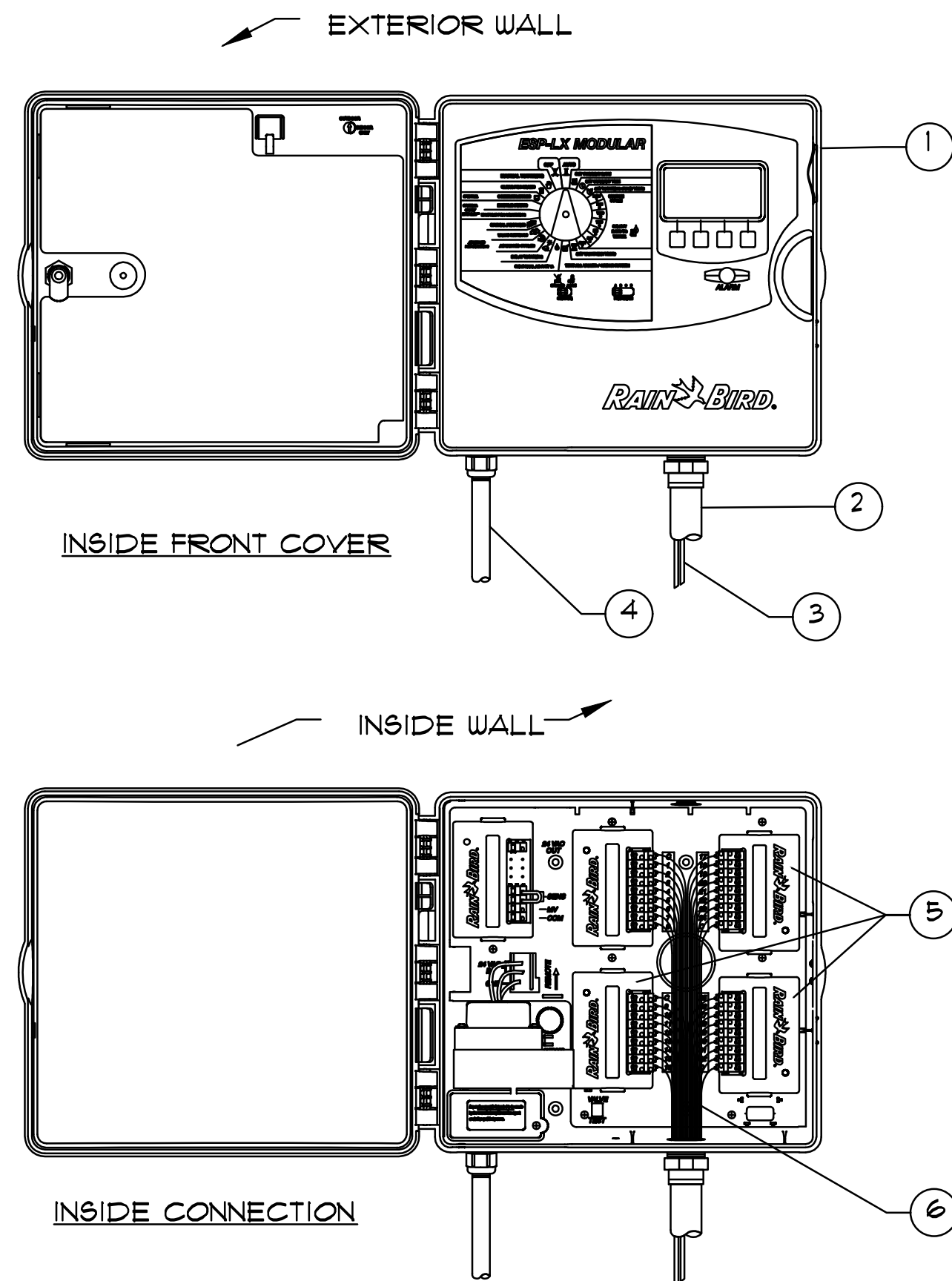
SHEET NUMBER
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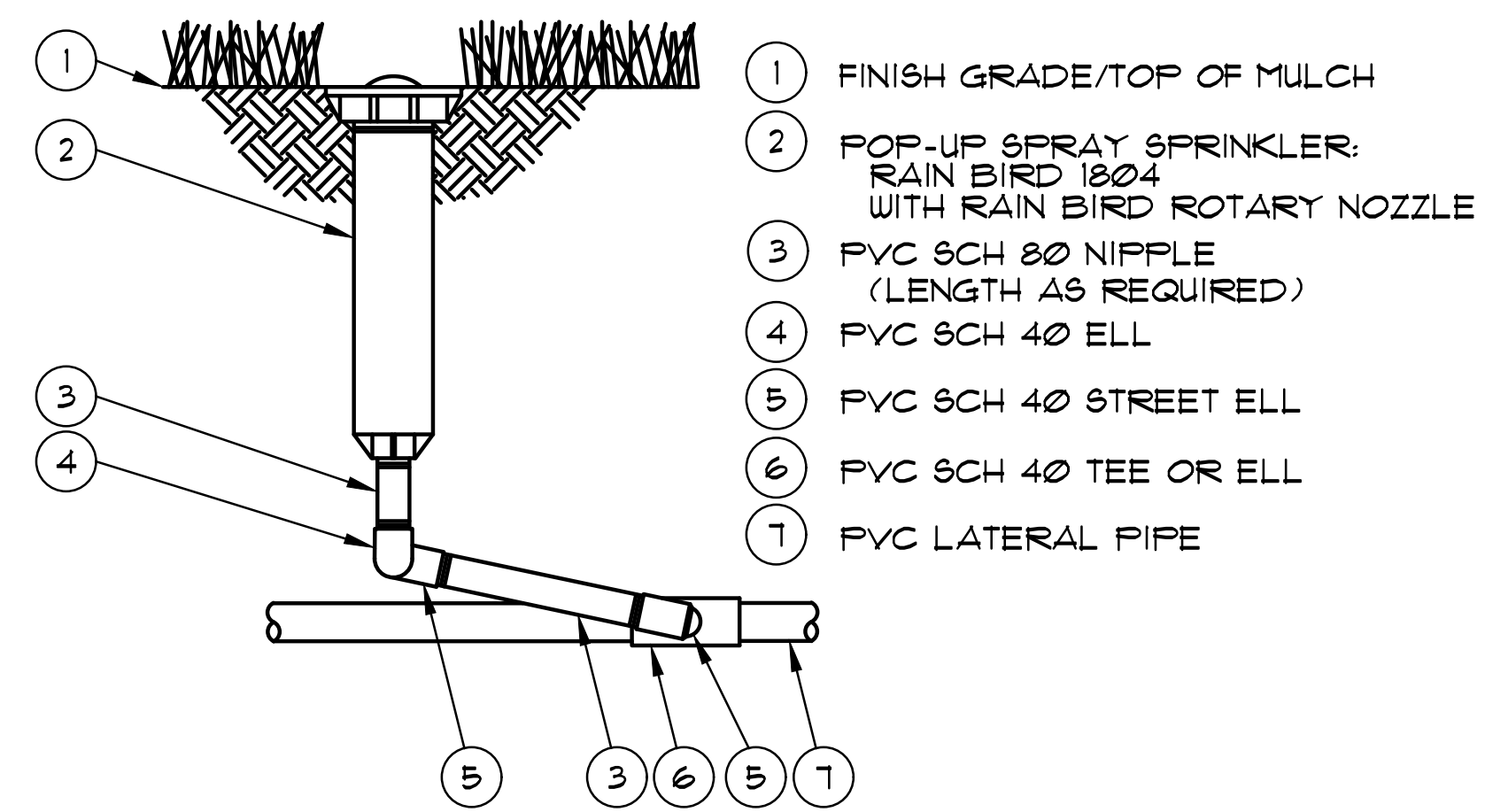
- 30-INCH LINEAR LENGTH OF WIRE, COILED
- WATERPROOF CONNECTION: RAIN BIRD SPLICE-1 (1 OF 2)
- ID TAG: RAIN BIRD VID SERIES
- REMOTE CONTROL VALVE: RAIN BIRD FGA
- VALVE BOX WITH COVER: RAIN BIRD VB-STD
- FINISH GRADE/TOP OF MULCH
- PVC SCH 80 NIPPLE (CLOSE)
- PVC SCH 40 ELL
- PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- BRICK (1 OF 4)
- PVC MAINLINE PIPE
- SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
- PVC SCH 40 TEE OR ELL
- PVC SCH 40 MALE ADAPTER
- PVC LATERAL PIPE
- 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

1 PGA CONTROL VALVE (OR EQUIVALENT)
NOT TO SCALE

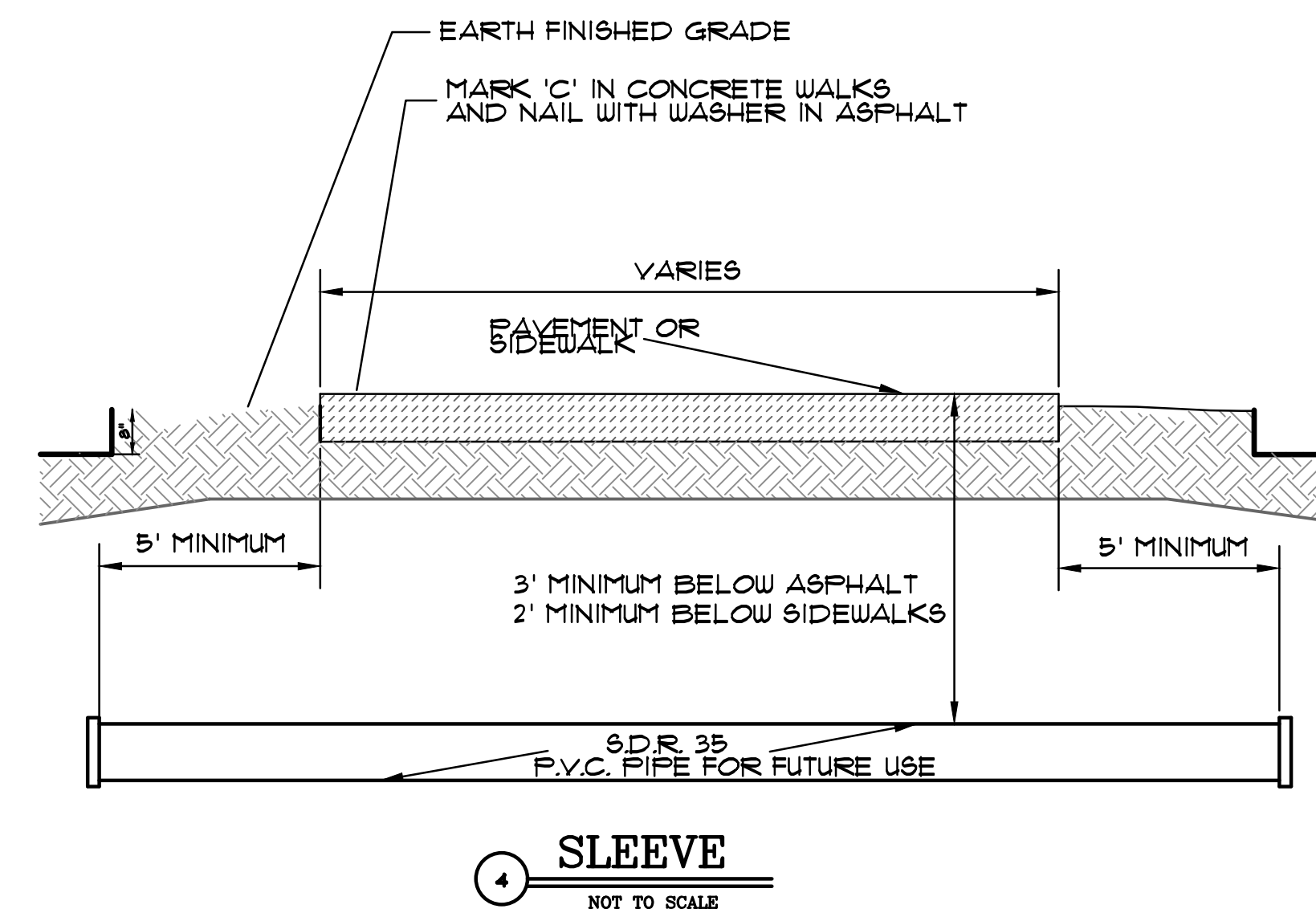


- MODULAR HYBRID CONTROLLER RAIN BIRD ESP-LX MODULAR EXTERIOR MOUNT.
- 1/2 INCH METAL CONDUIT AND FITTINGS.
- WIRES TO REMOTE CONTROL VALVES.
- 1 INCH METAL CONDUIT TO POWER SUPPLY.
- 36 STATION CONTROLLER (MINIMUM)
- WIRES TO REMOTE CONTROL VALVES.

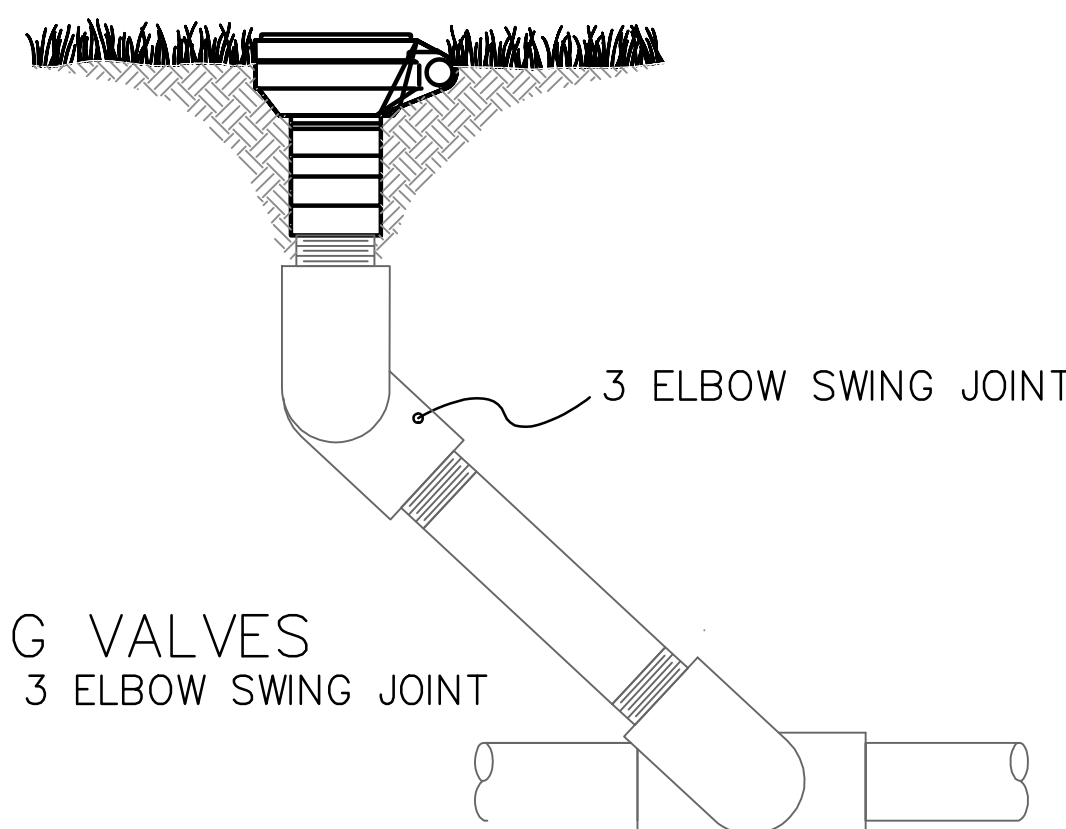
2 ESP-LX 36 MODULAR CONTROLLER (OR EQUIVALENT)
NOT TO SCALE



3 1800 POP-UP SPRAY, ROTARY NOZZLE (OR EQUIVALENT)
NOT TO SCALE

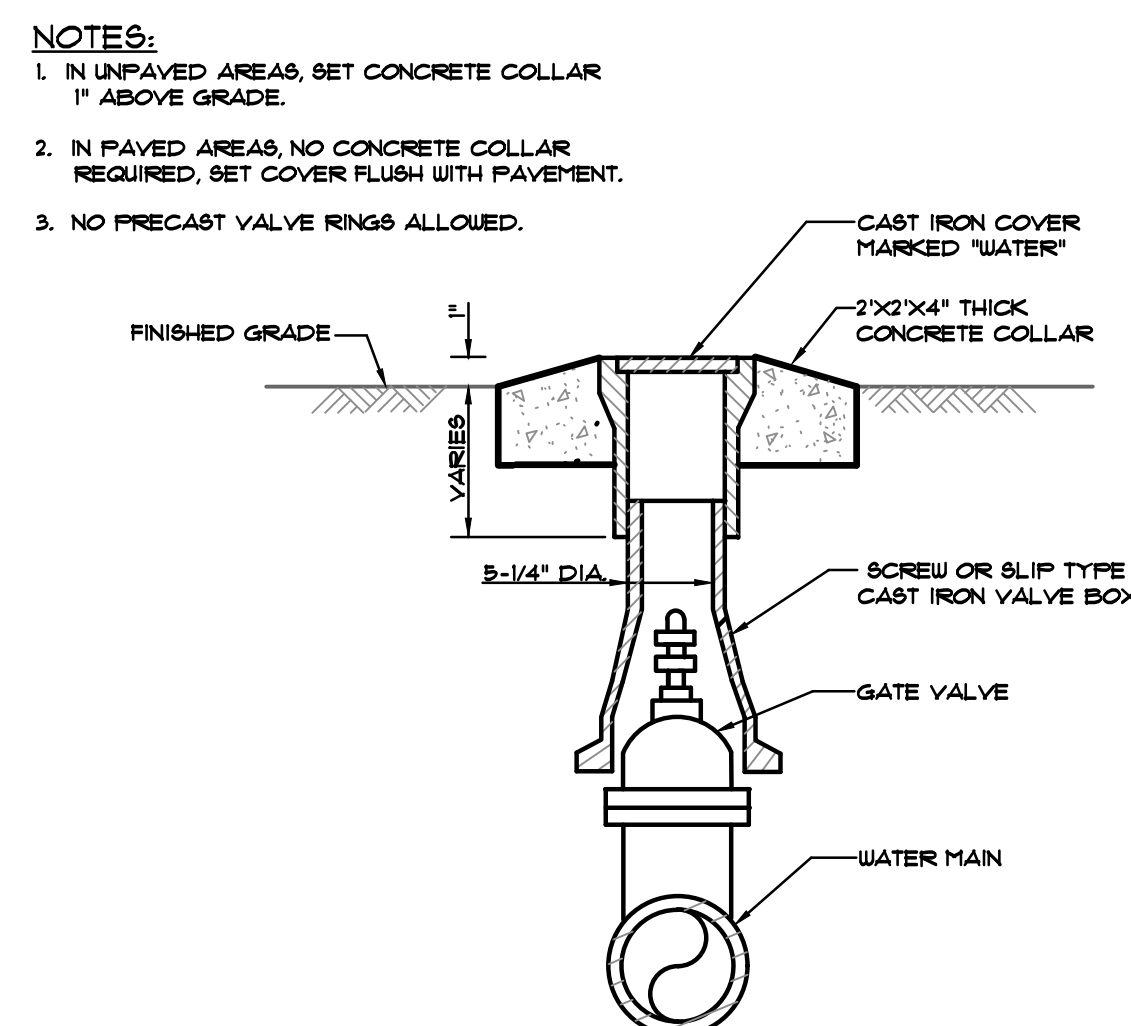


4 SLEEVE
NOT TO SCALE

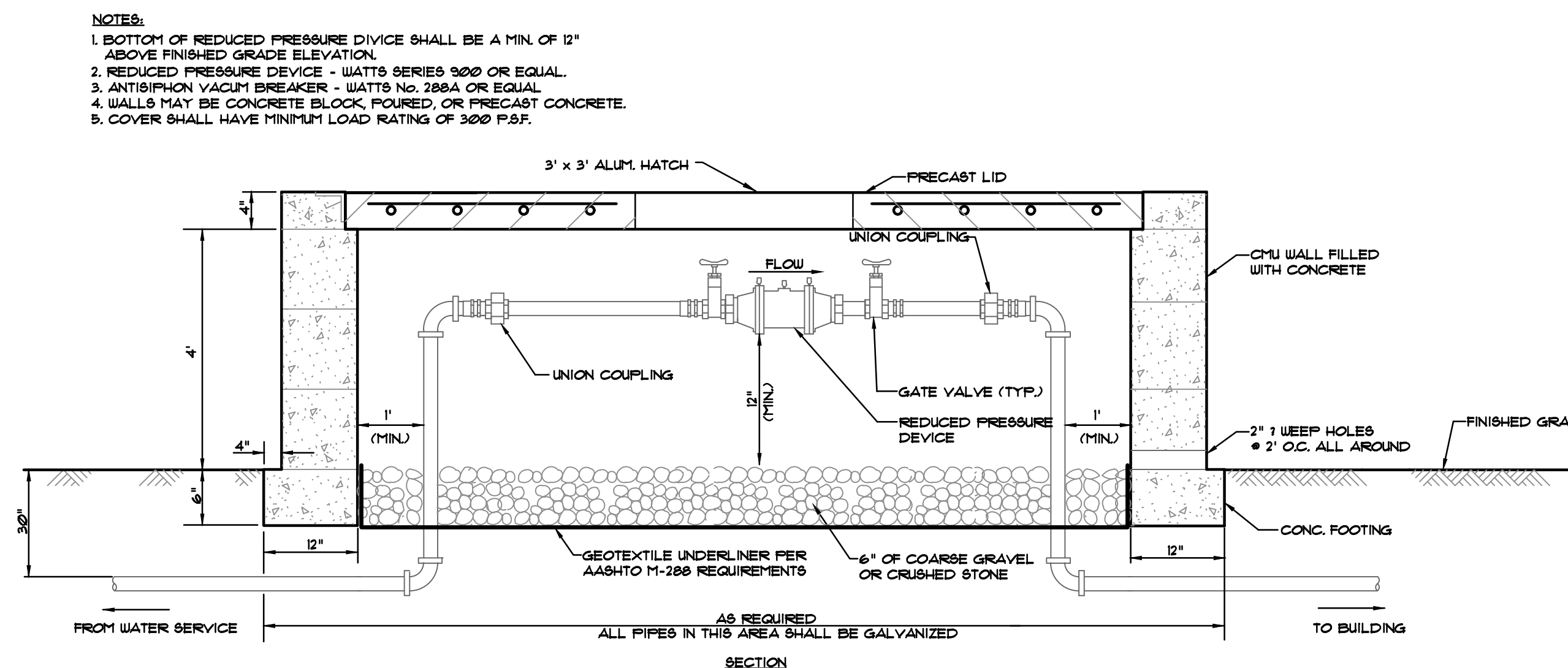


QUICK COUPLING VALVES
QUICK COUPLING VALVE - 3 ELBOW SWING JOINT

6 QUICK COUPLING VALVES
NOT TO SCALE



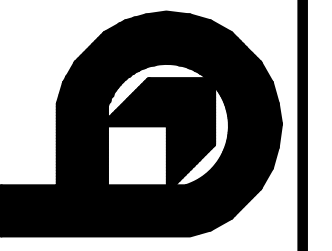
6 WATER VALVE BOX
NOT TO SCALE



1 BACKFLOW PREVENTER
NOT TO SCALE

IRRIGATION NOTES:

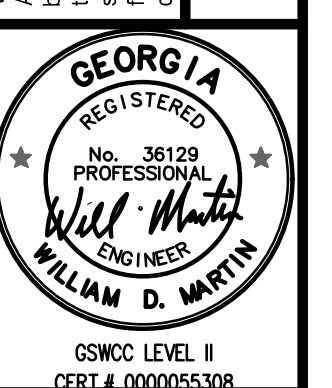
- CONTRACTOR TO INSTALL CONDUITS FOR ELECTRICAL WIRES AND WATER LINES PRIOR TO SIDEWALKS BEING INSTALLED.
- MINOR ADJUSTMENTS CAN BE MADE TO SPRINKLER LOCATION TO IMPROVE COVERAGE AREAS.
- CONTRACTOR TO PROVIDE VARIOUS NOZZLES TO MINIMIZE WATER ON SIDEWALKS AND PAVED AREAS.
- CONTRACTOR TO COORDINATE IRRIGATION CONNECTION WITH LOCAL WATER AUTHORITY PRIOR TO INSTALLATION.
- ACTIVE UTILITIES ARE WITHIN THE PROJECT AREA WHERE IRRIGATION AND PLANTING IS TO OCCUR. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF UTILITIES DURING CONSTRUCTION.
- ALL DISTURBED AREAS NOT RECEIVING PAVEMENT SHALL BE STABILIZED WITH VEGETATIVE MATERIAL SPECIFIED.
- ALL DAMAGES TO EXISTING STRUCTURES, PLANT MATERIAL OR UTILITIES SHALL BE CONTRACTOR'S RESPONSIBILITY.
- ALL COMPONENTS SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS
- MAINLINE DEPTH SHALL BE NO LESS THAN 36"
- LATERAL DEPTH SHALL BE NO LESS THAN 24"
- ELECTRIC CONTROL VALVES SHALL BE COVERED WITH 12" VALVE BOX
- VALVES/QCV'S LOCATIONS SHALL BE OUT OF HIGH TRAFFIC AREAS
- WIRE SPLICE CONNECTIONS SHALL BE WATERPROOF
- QCV SHALL BE LOCATED IN 10" VALVE BOX
- ALL SLEEVES SHALL BE 2X DIAMETER SIZE OF PIPE THAT RUNS THROUGH THEM
- CONTRACTOR SHALL INSTALL ALL COMPONENTS AS PER LOCAL, STATE, FEDERAL CODES
- THERE ARE ACTIVE UTILITIES WITHIN THE CONSTRUCTION LIMITS. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF UTILITIES DURING CONSTRUCTION.
- SEE SPECIFICATIONS FOR ACCEPTABLE LIST OF MANUFACTURERS.
- ALL LINES ON FOOTBALL AND PRACTICE FIELD SHOULD BE INSTALLED NO LESS THAN 24" BELOW FINISH GRADE. MAINLINE SHOULD BE INSTALLED 36" BELOW FINISH GRADE.
- COORDINATE ROAD CROSSINGS AND SIDEWALK CROSSINGS WITH CONTRACTOR.
- TREES NOT RECEIVING IRRIGATION SHOULD BE IRRIGATED USING GATOR BAGS.



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SWANSBORO, ALBANY, ROME, AND SAVANNAH
GEORGIA

WARNING: Contractors, subcontractors, vendors and suppliers are advised that the contract documents consist of the drawings, specifications, conditions of contract, and general notes. It is the responsibility of the contractor to read and understand the contract documents and to verify the accuracy of the information used in bidding. Development of their drawings and construction of facility are identical to the contract documents.



ISSUED FOR
BID
JWR
DRAWN BY
CHECKED BY
WDM
APPROVED BY
12-20-2024
DATE
22-065
PROJECT NO.

SHEET NUMBER
L2.1

NARRATIVE:
1. APPLICANT INFORMATION:
EFFINGHAM COUNTY BOARD OF EDUCATION
4085 NORTH 46th STREET
SPRINGFIELD, GEORGIA 31329
24 HOUR CONTACT: RON WACK
PH # (912) 636-8293
E-MAIL: RWACK@EFFINGHAMGAUS

2. PROJECT DESCRIPTION: THE PROJECT SITE IS LOCATED ON THE PROPERTY OF THE EFFINGHAM COUNTY BOARD OF EDUCATION AT HOGESVILLE ROAD, CITY OF GUYTON, EFFINGHAM COUNTY, GEORGIA. THE SITE IS USED FOR THE CONSTRUCTION OF NEW MAINTENANCE BUILDING FACILITY FOR EFFINGHAM COUNTY BOARD OF EDUCATION.

3. PROJECT AREA:
TOTAL AREA FOR THIS PROPERTY IS **24.931** ACRES.
TOTAL DISTURBED AREA FOR THIS PROJECT IS **11.62** ACRES.

4. PROJECT LOCATION:
THIS PROPERTY IS LOCATED ON LANDS OF EFFINGHAM COUNTY BOARD OF EDUCATION, CITY OF GUYTON, EFFINGHAM COUNTY, GEORGIA. THE PROPERTY IS AN EMPTY LOT WITH TREES AND BUSHES ALONG HOGESVILLE ROAD.

5. SITE CONDITIONS:
THE SITE IS CURRENTLY AN EMPTY WOODED LOT.

6. SOILS INFORMATION:
LHA: LEON SAND (0 TO 2 PERCENT SLOPES).

7. DATE OF CONSTRUCTION:
APPROXIMATE START OF CONSTRUCTION IS MARCH 1, 2025.
STABILIZATION SHOULD BE COMPLETED BEFORE MAY 1, 2026.
(SEE SCHEDULE FOR ADDITIONAL INFORMATION).

8. CRITICAL AREAS:
THERE ARE NO CRITICAL AREAS NOT LOCATED ON THE SITE AND WILL REMAIN UNDISTURBED.

9. DISPOSAL OF DEBRIS:
NO MATERIALS ARE TO BE BURIED ON-SITE. CONSTRUCTION MATERIALS MAY BE BURNED AND/OR TAKEN TO A STATE APPROVED LAND FILL. BURNING IS ALLOWED ONLY IF THE PROPER PERMIT IS OBTAINED FROM THE LOCAL AUTHORITY.

10. STORM WATER MANAGEMENT:
ON SITE POND WILL BE CREATED TO HELP PREVENT SEDIMENTS FROM LEAVING SITE. ALL AREAS WITHIN 15' AND 10' SLOPE SHALL BE STABILIZED TO PREVENT SEDIMENT ESCAPE FROM SITE. AT THE COMPLETION OF THE PROJECT THE SITE WILL BE SURFACE ROUGHENED AND GRASSED TO HELP TREAT POLLUTANTS FROM ENTERING THE STORM WATER.

11. FLOOD HAZARD:
THIS PARCEL IS IN MINIMAL FLOOD HAZARD AREA ACCORDING TO FIRM: COMMUNITY NUMBER 13102C02360E, DATED MARCH 16, 2019.

12. STATE WATERS:
THERE ARE NO STATE WATERS PRESENT ON THIS SITE WHICH REQUIRE A PERMIT TO DISCHARGE. THE SITE IS A TRIBUTARY OF DASHIER CREEK SETBACK RECEIVING WATERS IS A TRIBUTARY OF DASHIER CREEK.

13. WETLANDS:
THERE ARE NO WETLANDS LOCATED ON SITE. WETLANDS WILL REMAIN UNDISTURBED.

14. ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.

15. ALL FILL SLOPES WILL HAVE SILT FENCE AT TOE OF SLOPE.

16. A 50 FOOT UNDISTURBED VEGETATIVE BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT AND MAINTAINED.

17. INSTALLATION:
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.

18. MAINTENANCE:
EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

19. EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE IMPLEMENTED BY THE CONTRACTOR TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE PROJECT SITE AND PREVENT EROSION OF SOILS DURING CONSTRUCTION.

20. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL AT ALL TIMES BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL SOIL EROSION CONTROL MEASURES IMPLEMENTED UNDER CURRENT AND PREVIOUS CONTRACTS.

21. ALL INLETS SHALL BE EQUIPPED WITH 502 INLET PROTECTION END SECTIONS SHALL BE EQUIPPED WITH 90 OUTLET PROTECTION (RIIRAP).

22. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH AND/OR TEMPORARY SEEDING.

23. ALL SLOPES CONSTRUCTED WITH AN INCLINE OF 3:1 OR GREATER SHALL BE PROTECTED USING AN EROSION CONTROL MAT.

24. MAXIMUM CUT AND FILL SLOPES ARE (2) FEET HORIZONTAL TO (1) FOOT VERTICAL.

25. STORM WATER DRAINAGE SYSTEMS SHALL BE CLEANED AND RE-VEGETATED AT THE END OF THE PROJECT.

26. ALL DESIGNS SHALL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA, 6th EDITION (WHITE BOOK).

27. SILT FENCE DENOTED BY:
----XX---- TYPE "N"
----XX---- TYPE "S"

28. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AS DEEMED NECESSARY BY ON-SITE INSPECTION.

29. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF UNRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANTS AND PERMITS.

30. THE DESIGN PROFESSIONAL WHO PREPARED THE E84PC PLAN IS TO INSPECT THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL REQUIREMENTS AND PERMITTER CONTROL BMP'S WITHIN 15 DAYS AFTER INSTALLATION.

31. AMENDMENTS/REVISIONS TO THE E84PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

VEGETATION SCHEDULE

AREAS TO RECEIVE TEMPORARY VEGETATION SHALL BE SMOOTHED WITH A SURFACE OF ACCEPTABLE GROUNDING SOIL, NOT NECESSARILY TOPSOIL FROM STOCKPILE. AREAS TO RECEIVE PERMANENT VEGETATION SHALL BE TOPSOILED AS REQUIRED IN CONTRACT.

LIME SHALL BE APPLIED AT A RATE OF 2.0 TONS PER ACRE (30% PER 1000 SQ. FT.) UNLESS SOIL TESTING SHOWS OTHER REQUIRED APPLICATION RATE.

FERTILIZER (10-10-10 OR EQUIVALENT) SHALL BE APPLIED AT A RATE OF 0.75 TONS PER ACRE (35% PER 1000 SQ. FT.) INITIAL APPLICATION AND 0.25 TONS PER ACRE (12% PER 1000 SQ. FT.) APPLIED IN SPRING IF INITIAL PLANTING IS PRIOR TO DECEMBER OF PREVIOUS YEAR.

D-01 TEMPORARY VEGETATION SCHEDULE - MULCHING ONLY

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE.

MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS.

IF ANY AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED.

D-02 TEMPORARY VEGETATION SCHEDULE - W/TEMPORARY SEEDING

BARLEY - 150# PER ACRE (PLANT BETWEEN SEPTEMBER 1 AND MARCH 15)

LESPEDEZA - 40# PER ACRE (PLANT BETWEEN JANUARY 1 AND MARCH 1)

LOVEGRASS (WEEFING) - 4# PER ACRE (PLANT BETWEEN FEBRUARY 15 AND JUNE 15)

MILLET (BROWNTOP) - 40# PER ACRE (PLANT BETWEEN APRIL 1 AND JULY 1)

MILLET (PEARL) - 50# PER ACRE (PLANT BETWEEN APRIL 1 AND SEPTEMBER 1)

OATS - 60# PER ACRE (PLANT BETWEEN SEPTEMBER 1 AND DECEMBER 1)

RYE - 3 bu. PER ACRE (PLANT BETWEEN SEPTEMBER 1 AND MARCH 1)

RYE GRASS - 40# PER ACRE (PLANT BETWEEN AUGUST 15 AND APRIL 1)

SUDAN GRASS - 60# PER ACRE (PLANT BETWEEN MARCH 1 AND AUGUST 1)

TRITICALE - (PLANT BETWEEN SEPTEMBER 15 AND FEBRUARY 1) COASTAL

WHEAT - 3 bu. PER ACRE (PLANT BETWEEN SEPTEMBER 15 AND FEBRUARY 1)

D-03 PERMANENT VEGETATION SCHEDULE - W/PERMANENT VEGETATION

BAHIA PENSACOLA - 60# PER ACRE (PLANT BETWEEN JANUARY 1 AND DECEMBER 31)

BAHIA WILMINGTON - 60# PER ACRE (PLANT BETWEEN JANUARY 1 AND DECEMBER 31)

PRINCESS 11 BERMUDA SEED (HILLED) - 10# PER ACRE (PLANT BETWEEN FEBRUARY 1 AND JULY 1) PIEDMONT/ COASTAL

PRINCESS 11 BERMUDA SEED (UNHILLED) - 10# PER ACRE (PLANT BETWEEN NOVEMBER 1 AND FEBRUARY 1) PIEDMONT/ COASTAL

PRINCESS 11 SARAHAA SEED (HILLED) - 10# PER ACRE (PLANT BETWEEN MARCH 15 AND JULY 15) PIEDMONT/ COASTAL

CENTPEDE SEED - BLOCK 800 ONLY (PLANT BETWEEN APRIL AND JULY)

WEEFING LOVE GRASS - 4# PER ACRE (PLANT BETWEEN FEBRUARY 1 AND JUNE 15)

SWITCH GRASS - 40# PER ACRE (PLANT BETWEEN MARCH 1 AND JUNE 1)

D-04 PERMANENT VEGETATION SCHEDULE - W/WOODING

COTTON BERMUDA - 800

HAY OR STRAW MULCH SHALL BE APPLIED AT 2 TONS PER ACRE AFTER PLANTING AND SHALL BE TACKED OR OTHERWISE STABILIZED WHERE SLOPES OR WINDS WOULD ALLOW MOVEMENT OTHERWISE. IF A LANDSCAPING PLAN REQUIRES GROUND COVER OTHER THAN THAT SHOWN ABOVE, THE PROVISIONS OF THE LANDSCAPING PLAN SHALL SUPERSEDE THAT ABOVE. AREAS VEGETATION CONFORMING TO THE APPROPRIATE PROVISION ABOVE, TO BE LANDSCAPED AT A LATER DATE SHALL BE DEEMED TO REQUIRE TEMPORARY.

EROSION CONTROL NOTES:
1. THIS PROJECT HAS RECEIVING WATERS, WHICH INCLUDE STREAMS, LAKES, RESIDENTIAL AREAS, WETLANDS, ETC. THIS PROJECT HAS NO IMPACT ON DOWNSTREAM STRUCTURES. THERE ARE RECEIVING WETLANDS AND TRIBUTARY TO DASHIER CREEK.
2. PRODUCT SPECIFIC PRACTICES:
PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STORM WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS SHALL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS SHALL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT SHALL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS SHALL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
CONCRETE TRUCK WASHING - A PIT SHALL BE INSTALLED TO ALLOW CONCRETE TRUCKS TO WASH OUT AND THIS DEBRIS SHALL BE CLEANED OUT AT THE COMPLETION OF THE PROJECT.
WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. ONLY CONCRETE WASH DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPER AND THE REAR OF VEHICLES WILL BE ALLOWED.
FERTILIZER/HERBICIDES - THESE PRODUCTS SHALL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS SHALL BE UNDER ROOF IN SEALED CONTAINERS.
3. NO WASTE SHALL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE.

EROSION CONTROL NOTES:
1. THIS PROJECT HAS RECEIVING WATERS, WHICH INCLUDE STREAMS, LAKES, RESIDENTIAL AREAS, WETLANDS, ETC. THIS PROJECT HAS NO IMPACT ON DOWNSTREAM STRUCTURES. THERE ARE RECEIVING WETLANDS AND TRIBUTARY TO DASHIER CREEK.
2. PRODUCT SPECIFIC PRACTICES:
PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STORM WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS SHALL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS SHALL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT SHALL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS SHALL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
CONCRETE TRUCK WASHING - A PIT SHALL BE INSTALLED TO ALLOW CONCRETE TRUCKS TO WASH OUT AND THIS DEBRIS SHALL BE CLEANED OUT AT THE COMPLETION OF THE PROJECT.
WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. ONLY CONCRETE WASH DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPER AND THE REAR OF VEHICLES WILL BE ALLOWED.
FERTILIZER/HERBICIDES - THESE PRODUCTS SHALL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS SHALL BE UNDER ROOF IN SEALED CONTAINERS.
3. NO WASTE SHALL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE.

WASTE MATERIALS
ALL WASTE MATERIAL SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER SHALL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER SHALL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE SHALL BE BURIED ON-SITE.
WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT

ALL PERSONNEL SHALL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

BUILDING MATERIALS
NO BUILDING OR CONSTRUCTION MATERIALS SHALL BE BURIED OR DISPOSED OF ON-SITE. ALL BUILDING MATERIAL SHALL BE STORED IN A PROPERLY COVERED AREA. THE CONTRACTOR SHALL DESCRIBE OF PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE. ALL BUILDING PRODUCTS, CONSTRUCTION WASTE, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS MUST BE COVERED USING PLASTIC SHEETING OR TEMPORARY ROOFS TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORM WATER.

WASTE MATERIALS
ALL WASTE MATERIAL SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER SHALL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER SHALL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE SHALL BE BURIED ON-SITE.
WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT

ALL PERSONNEL SHALL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

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WASTE MATERIALS
ALL WASTE MATERIAL SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER SHALL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER SHALL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE SHALL BE BURIED ON-SITE.
WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT

ALL PERSONNEL SHALL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

BUILDING MATERIALS
NO BUILDING OR CONSTRUCTION MATERIALS SHALL BE BURIED OR DISPOSED OF ON-SITE. ALL BUILDING MATERIAL SHALL BE STORED IN A PROPERLY COVERED AREA. THE CONTRACTOR SHALL DESCRIBE OF PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE. ALL BUILDING PRODUCTS, CONSTRUCTION WASTE, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS MUST BE COVERED USING PLASTIC SHEETING OR TEMPORARY ROOFS TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORM WATER.

HAZARDOUS MATERIALS

ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOBSITE SUPERINTENDENT, WHO SHALL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, SHALL INSTRUCT SITE PERSONNEL IN THE PROPER HANDLING OF HAZARDOUS MATERIALS. MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOBSITE SHALL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WATERS THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS SHALL BE POSTED AT THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS SHALL BE MAINTAINED IN THE E84PC PLAN FILE AT THE JOBSITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A HAZARDOUS MATERIALS SHALL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR SHALL IMPLEMENT THE SPILL PREVENTION CONTROL AND CONTINGENCY MEASURES (SPCC) PLAN FOUND WITHIN THIS E84PC PLAN AND SHALL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIAL OR HAZARDOUS MATERIALS SHALL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE SHALL BE CONTAINED ON-SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES

A MINIMUM OF ONE PORTABLE SANITARY UNIT SHALL BE PROVIDED FOR EVERY TEN (10) WORKERS ON-SITE. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS SHALL BE LOCATED IN ONE AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL, BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE UNIT. ALL WASTE CONTAINING TO STORM WATER DISCHARGES, THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY/SEPTIC SYSTEM AT THE COMPLETION OF THIS PROJECT.

4. SPILL CLEANUP AND CONTROL PRACTICES

* LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND PROCEDURES SHALL BE MADE AVAILABLE TO SITE PERSONNEL.
* MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREAS, TYPICAL MATERIALS AND EQUIPMENT INCLUDE: RUBBER BOATS, PUMPS, CONTAINERS, PUMPS, RAGS, GLOVES, GOGGLES, CAT LITTER SAND, SAND/STIR AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
* SPILL PREVENTION PRACTICES AND PROCEDURES SHALL BE REVIEWED PRIOR TO A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
* ALL SPILLS SHALL BE CLEANED IMMEDIATELY UPON DISCOVERY. ALL SPILLS SHALL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
* FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED WITHIN 24 HRS. AT 1-800-424-9802.
* FOR SPILLS OF UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) SHALL BE CONTACTED WITHIN 24 HRS. AT 1-800-424-9802.
* FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD SHALL BE CONTACTED WITHIN 24 HRS. AT 1-800-424-9802.
* FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL SHALL BE CLEANED UP AND LOCAL AGENCIES SHALL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 320 GALLONS OF PETROLEUM IS STORED ON SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY OF MORE THAN 320 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND CONTINGENCY MEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

5. THE E84PC PLAN CONTAINS MEASURES THAT SHALL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. WORKING DAY, UNLESS OTHERWISE NOTED, IS 7:00 AM TO 5:00 PM. DEVICES, SILT FENCING AND A SEDIMENT POND. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE FEDERAL CLEAN WATER ACT.

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF STORM WATER MANAGEMENT DEVICES PRIOR TO FINAL STABILIZATION OF THE SITE.

RECORDS OF RECORDS

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATIVE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

a. A COPY OF ALL NOTICE OF INTENT SUBMITTED TO EPD.
b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT.
c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5 OF HIS PERMIT.
d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT.
e. A COPY OF ALL INSPECTION REPORTS GENERATED IN A ACCORDANCE WITH PART IV.D.4.a OF THIS PERMIT.
f. A COPY OF ALL VIOLATION SUMMARY AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART II.D.2 OF THIS REPORT, AND
g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.2 OF THIS PERMIT.

2. COPIES OF ALL NOTIS, NOTS, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS) AND ALL ORIGINAL STRIP RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION OR OTHER REPORTS REQUESTED BY EPD, EROSION SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTI TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUESTED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOTI IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

NOTE: CERTIFICATION STATEMENT

"I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

WILLIAM D. MARTIN, P.E. #36129, CERT. #53308

NOTE:
PETROLEUM STORAGE SHALL BE DONE IN ACCORDANCE WITH ONE OF THE TWO FOLLOWING METHODS TO PREVENT STORMWATER DISCHARGES ON SITE:
A. ALL PETROLEUM STORAGE CONTAINERS SHALL BE COVERED WITH PLASTIC SHEETING OR BE LOCATED UNDER A TEMPORARY ROOF.
B. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.

CERTIFICATIONS

1. I, PLAN PREPARER, CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED UPON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

CERTIFY BY: *Will Martin* 00020253208
DESIGN PROFESSIONAL'S SIGNATURE GSWC LEVEL II CERT.

2. I, PLAN PREPARER, CERTIFICATION # 8162, BY SIGNING THE SEAL ON THIS DOCUMENT CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED. PROVIDES FOR THE SAMPLING OF RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 102002.

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED. PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 102002."

CERTIFY BY: *Will Martin* 000005308
PRIMARY PERMITTEE

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED UPON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

CERTIFY BY: *Will Martin*
PRIMARY PERMITTEE

DESIGN PROFESSIONAL 1-DAY VISIT CERTIFICATION

DATE OF INSPECTION: _____

"I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE E84PC PLAN ON THE DATE OF INSPECTION."

GSWC LEVEL II DESIGN CERTIFICATION CERTIFICATION # _____

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE E84PC PLAN.

THESE DISCREPANCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

INSPECTIONS

1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE, (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL NOTICE OF TERMINATION IS SUBMITTED.

2. MEASURE AND RECORD RAINFALL ONCE EVERY 24 HOUR EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD. THESE MEASUREMENTS OF RAINFALL AT ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

3. CERTIFIED PERSONNEL (PROVIDED BY PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.25 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM EXCEEDS 5.00 INCHES RAINFALL OR GREATER). THESE INSPECTIONS SHALL BE CONDUCTED ON NON-WORKING SUNDAY OR ON ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND OR WORKING DAY. UNLESS OTHERWISE NOTED, INSPECTIONS SHALL BE CONDUCTED BY THE PERMITTEE'S CONSTRUCTION SITE. (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST STAND ALONE CONSTRUCTION PROJECTS		
SWCD: XXXXXXXXXXXX		
PROJECT NAME:EFFINGHAM CO. B.O.E. MAINTENANCE FACILITY		ADDRESS: HODGEVILLE ROAD, GUYTON, GEORGIA 31312
CITY/COUNTY: GUYTON, EFFINGHAM		DATE ON PLANS: 12-20-2094
NAME & EMAIL OF PERSON FILLING OUT CHECKLIST: GERMAIN GALVADES, GOG@JWBUCKLEY.COM		
PLAN PAGE #	INCLUDED Y/N	
SE0.1	Y	1 THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.
ALL	Y	2 LEVEL II CERTIFICATION NUMBER ISSUED BY THE COMMISSION, SIGNATURE AND SEAL OF THE CERTIFIED DESIGN PROFESSIONAL.
	N/A	3 LIMITS OF DISTURBANCE SHALL BE NO GREATER THAN 50 ACRES AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE GAEPD DISTRICT OFFICE. IF GAEPD APPROVES THE REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME, THE PLAN MUST INCLUDE AT LEAST 4 OF THE BMPS LISTED IN APPENDIX 1 OF THIS CHECKLIST AND THE GAEPD APPROVAL LETTER. *
SE0.0	Y	4 THE NAME AND PHONE NUMBER OF THE 24-HOUR CONTACT RESPONSIBLE FOR EROSION, SEDIMENTATION AND POLLUTION CONTROLS.
SE0.0	Y	5 PROVIDE THE NAME, ADDRESS, EMAIL ADDRESS, AND PHONE NUMBER OF PRIMARY PERMITTEE.
SE0.0 SE1.0	Y	6 NOTE TOTAL AND DISTURBED ACREAGES OF THE PROJECT OR PHASE UNDER CONSTRUCTION.
SE1.0 SE1.1	Y	7 PROVIDE THE GPS LOCATION OF THE CONSTRUCTION EXIT FOR THE SITE. GIVE THE LATITUDE AND LONGITUDE IN DECIMAL DEGREES.
ALL	Y	8 INITIAL DATE OF THE PLAN AND THE DATES OF ANY REVISIONS MADE TO THE PLAN INCLUDING THE ENTITY WHO REQUESTED THE REVISIONS.
SE0.1	Y	9 DESCRIPTION OF THE NATURE OF CONSTRUCTION ACTIVITY AND EXISTING SITE CONDITIONS.
SE0.0	Y	10 PROVIDE VICINITY MAP SHOWING SITE'S RELATION TO SURROUNDING AREAS. INCLUDE DESIGNATION OF SPECIFIC PHASE, IF NECESSARY.
SE0.0	Y	11 IDENTIFY THE PROJECT RECEIVING WATERS AND DESCRIBE ALL SENSITIVE ADJACENT AREAS INCLUDING STREAMS, LAKES, RESIDENTIAL AREAS, WETLANDS, MARSHLANDS, ETC. WHICH MAY BE AFFECTED.
SE0.0	Y	12 DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE SITE WAS VISITED PRIOR TO DEVELOPMENT OF THE ES&P PLAN AS STATED ON PART IV PAGE 19 OF THE PERMIT.
SE0.0	Y	13 DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE PERMITTEE'S ES&P PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BMPS AND SAMPLING TO MEET PERMIT REQUIREMENTS AS STATED ON PART IV PAGE 19 OF THE PERMIT.
SE0.0	Y	14 CLEARLY NOTE THE STATEMENT THAT "THE DESIGN PROFESSIONAL WHO PREPARED THE ES&P PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL PERMIT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION." IN ACCORDANCE WITH PART IV PAGE 19 OF THE PERMIT.
SE0.0	Y	15 CLEARLY NOTE THE STATEMENT THAT "NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS."
	N/A	16 PROVIDE A DESCRIPTION OF ANY BUFFER ENCROACHMENTS AND INDICATE WHETHER A BUFFER VARIANCE IS REQUIRED.
SE0.0	Y	17 CLEARLY NOTE THE STATEMENT THAT "AMENDMENTS/REVISIONS TO THE ES&P PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. "
SE0.0	Y	18 CLEARLY NOTE THE STATEMENT THAT "WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. "
SE0.0	Y	19 CLEARLY NOTE STATEMENT THAT "THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES."
SE0.0	Y	20 CLEARLY NOTE STATEMENT THAT "EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE."
SE0.0	Y	21 CLEARLY NOTE THE STATEMENT "ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."
SE0.0	Y	22 ANY CONSTRUCTION ACTIVITY WHICH DISCHARGES STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT MUST COMPLY WITH PART III, C. OF THE PERMIT. INCLUDE THE COMPLETED APPENDIX I LISTING ALL OF THE BMPS THAT WILL BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBANCE ACTIVITIES.
SE0.0	Y	23 IF A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS BEEN FINALIZED FOR THE IMPAIRED STREAM SEGMENT (IDENTIFIED INTENT 22 ABOVE), AT LEAST SIX MONTHS PRIOR TO SUBMITTAL OF NOI, THE ES&P PLAN MUST ADDRESS ANY SITE-SPECIFIC CONDITIONS OR REQUIREMENTS INCLUDED IN THE TMDL IMPLEMENTATION PLAN. *
SE0.0 SE1.0 SE1.1	Y	24 BMPS FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. *
SE0.0 SE1.0	Y	25 PROVIDE BMPS FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS.
SE0.0	Y	26 DESCRIPTION OF THE MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. *
SE1.0 SE1.1 SE1.2	Y	27 DESCRIPTION OF PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE. *
SE0.0	Y	28 DESCRIPTION OF THE PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES. *
SE0.1	Y	29 DESCRIPTION AND CHART OR TIMELINE OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH DISTURB SOILS FOR THE MAJOR PORTIONS OF THE SITE (I.E., INITIAL PERIMETER AND SEDIMENT STORAGE BMPS, CLEARING AND GRUBBING ACTIVITIES, EXCAVATION ACTIVITIES, UTILITY ACTIVITIES, TEMPORARY AND FINAL STABILIZATION).
SE0.0	Y	30 PROVIDE COMPLETE REQUIREMENTS OF INSPECTIONS AND RECORD KEEPING BY THE PRIMARY PERMITTEE. *
SE0.0	Y	31 PROVIDE COMPLETE REQUIREMENTS OF SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS. *
SE0.0	Y	32 PROVIDE COMPLETE DETAILS FOR RETENTION OF RECORDS AS PART IV, F, OF THE PERMIT. *
SE0.0	Y	33 DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES FROM EACH LOCATION. *
SE0.0	Y	34 APPENDIX B RATIONALE FOR NTU VALUES AT ALL OUTFALL SAMPLING POINTS WHERE APPLICABLE. *
SE1.0 SE1.1 SE1.2	Y	35 DELINEATE ALL SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES INTO WHICH STORM WATER IS DISCHARGED. *
SE0.0	Y	36 A DESCRIPTION OF APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE INCLUDING (1) INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS, (2) INTERMEDIATE GRADING AND DRAINAGE BMPS, AND (3) FINAL BMPS. FOR CONSTRUCTION SITES WHERE THERE WILL BE NO MASS GRADING AND THE INITIAL PERIMETER CONTROL BMPS, INTERMEDIATE GRADING AND DRAINAGE BMPS, AND FINAL BMPS ARE THE SAME, THE PLAN MAY COMBINE ALL OF THE BMPS INTO A SINGLE PHASE. *
SE1.0 SE1.1 SE1.2	Y	37 GRAPHIC SCALE AND NORTH ARROW.
SE0.0 SE1.0 SE1.1 SE1.2	Y	38 EXISTING AND PROPOSED CONTOUR LINES WITH CONTOUR LINES DRAWN AT AN INTERVAL IN ACCORDANCE WITH THE FOLLOWING: MAP SCALE GROUND SLOPE CONTOUR INTERVALS, FT. 1 INCH = 100FT OR FLAT 0 - 2% 0.5 OR 1 LARGER SCALE ROLLING 2 - 8% 1 OR 2 STEEP 8% + 2.5 OR 10
	N/A	39 USE OF ALTERNATIVE BMPS WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO OR SUPERIOR TO CONVENTIONAL BMPS AS CERTIFIED BY A DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY GAEPD OR THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION), PLEASE REFER TO THE ALTERNATIVE BMP GUIDANCE DOCUMENT FOUND AT WWW.GASWCC.GEORGIA.GOV.
	N/A	40 USE OF ALTERNATIVE BMP FOR APPLICATION TO THE EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA 2016 EDITION. *
ALL	Y	41 DELINEATION OF THE APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS ADJACENT TO STATE WATERS AND ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY. CLEARLY NOTE AND DELINEATE ALL AREAS OF IMPACT.
SE1.0	Y	42 DELINEATION OF ON-SITE WETLANDS AND ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE.
HYDRO	Y	43 DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE.
HYDRO	Y	44 PROVIDE HYDROLOGY STUDY AND MAPS OF DRAINAGE BASINS FOR BOTH THE PRE- AND POST-DEVELOPED CONDITIONS. *
HYDRO	Y	45 AN ESTIMATE OF THE RUNOFF COEFFICIENT OR PEAK DISCHARGE FLOW OF THE SITE PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED.
SE2.0	Y	46 STORM DRAIN PIPE AND WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION TO ACCOMMODATE DISCHARGES WITHOUT EROSION. IDENTIFY/DELINEATE ALL STORM WATER DISCHARGE POINTS.
SE0.1	Y	47 SOIL SERIES FOR THE PROJECT SITE AND THEIR DELINEATION.
ALL	Y	48 THE LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION.
	Y	49 PROVIDE A MINIMUM OF 67 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE DRAINED USING A TEMPORARY SEDIMENT BASIN, RETROFITTED DETENTION POND, AND/OR EXCAVATED INLET SEDIMENT TRAPS FOR EACH COMMON DRAINAGE LOCATION. SEDIMENT STORAGE VOLUME MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED. A WRITTEN JUSTIFICATION EXPLAINING THE DECISION TO USE EQUIVALENT CONTROLS WHEN A SEDIMENT BASIN IS NOT ATTAINABLE MUST BE INCLUDED IN THE PLAN FOR EACH COMMON DRAINAGE LOCATION IN WHICH A SEDIMENT BASIN IS NOT PROVIDED. A WRITTEN JUSTIFICATION AS TO WHY 67 CUBIC YARDS OF STORAGE IS NOT ATTAINABLE MUST ALSO BE GIVEN. WORKSHEETS FROM THE MANUAL INCLUDED FOR STRUCTURAL BMPS AND ALL CALCULATIONS USED BY THE STORAGE DESIGN PROFESSIONAL TO OBTAIN THE REQUIRED SEDIMENT RETENTION USING EQUIVALENT CONTROLS. WHEN DISCHARGING FROM SEDIMENT BASINS AND IMPOUNDMENTS, PERMITTEES ARE REQUIRED TO UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE, UNLESS INFEASIBLE. IF OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE ARE NOT FEASIBLE, A WRITTEN JUSTIFICATION EXPLAINING THIS DECISION MUST BE INCLUDED IN THE PLAN.
ALL	Y	50 LOCATION OF BEST MANAGEMENT PRACTICES THAT ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. USE UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH LEGEND.
ALL	Y	51 PROVIDE DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES. SPECIFICATIONS MUST, AT A MINIMUM, MEET THE GUIDELINES SET FORTH IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
ALL	Y	52 PROVIDE VEGETATIVE PLAN, NOTING ALL TEMPORARY AND PERMANENT VEGETATIVE PRACTICES. INCLUDE SPECIES, PLANTING DATES AND SEEDING, FERTILIZER, LIME AND MULCHING RATES. VEGETATIVE PLAN SHALL BE SITE SPECIFIC FOR APPROPRIATE TIME OF THE YEAR THAT SEEDING WILL TAKE PLACE AND FOR THE APPROPRIATE GEOGRAPHIC REGION OF GEORGIA.
* IF USING THIS CHECKLIST FOR A PROJECT THAT IS LESS THAN 1 ACRE AND NOT PART OF A COMMON DEVELOPMENT BUT WITHIN 200 FT OF A PERENNIAL STREAM, THE "CHECKLIST ITEMS WOULD BE N/A."		
EFFECTIVE JANUARY 1, 2024		

FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION				
TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	N RATE (%/acre)	N TOP DRESSING RATE (%/acre)
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	10-10-10	1000	..
	MAINTENANCE	10-10-10	400	..
COOL SEASON GRASSES & LEGUMES	FIRST	6-12-12	1500	0-50
	SECOND	10-10-10	1000	...
	MAINTENANCE	10-10-10	400	..
TEMP. COVER CROPS	FIRST	10-10-10	500	..
WARM SEASON GRASSES	FIRST	10-12-12	500	50-100
	SECOND	10-10-10	500	50-100
	MAINTENANCE	10-12-12	400	..32

GRADED RIP-RAP STONE					
FLOW VELOCITY (ft/sec)	N.S.A. X	SIZE INCHES (SQ OPENING)			PARTICLE WEIGHT (lbs.)
		MAX	AVG	MIN	
2.5	R-1	1 1/2	3/4	NO.2	--
4.5	R-2	3	1 1/2	1	--
6.5	R-3	6	3	2	20
9.0	R-4	12	6	3	60
11.5	R-5	18	9	5	150
13.0	R-6	24	12	7	300
14.5	R-7	30	15	12	1200
--	R-8	48	24	15	1500

1. NATIONAL STONE ASSOCIATION
 2. AT LEAST 50% OF ALL THE INDIVIDUAL STONE PARTICLES MUST WEIGH AT LEAST THE LISTED AMOUNT.

[illegible]

NOTE: THIS IS A GENERAL CONSTRUCTION SCHEDULE FOR EROSION AND SEDIMENTATION CONTROL. CONTRACTOR SHALL CREATE A JOB SPECIFIC SCHEDULE

ACTIVITY SCHEDULE:

INITIAL PHASE:

- INSTALLATION OF CONSTRUCTION EXIT/ ENTRANCE
INSTALLATION OF SILT FENCE AND ANY OTHER BMPs SHOWN ON PLAN
DUST CONTROL FOR DISTURBED AREAS.
INSTALLATION OF TEMPORARY GRASSING (D61, D62) IN ALL DISTURBED AREAS.
INSTALLATION OF TEMPORARY SEDIMENT BASINS

INTERMEDIATE PHASE:

- MAINTENANCE OF ALL BMPs FROM INITIAL PHASE
 INSTALLATION OF ALL TEMPORARY GRASSING (D_{o1}, D_{o2}) BEYOND LIMITS SHOWN IN INITIAL PHASE
 AND WITHIN NEW LIMITS SHOWN IN INTERMEDIATE PHASE
 DUST CONTROL FOR DISTURBED AREAS,
 CLEARING AND GRUBBING
 GRADING ACTIVITIES
 INSTALLATION OF 8d2-F AND OTHER BMPs SHOWN ON SHEETS 9E11 AND 9E11b.

FINAL PHASE:

- MAINTENANCE OF ALL BMPs FROM PREVIOUS TWO STAGES - INSTALLATION OF ARTIFICIAL
ALL TEMPORARY BMPs ARE TO BE REMOVED ONCE FINAL STABILIZATION IS ACHIEVED
PERMANENT GRASSING TO BE INSTALLED

[illegible]

NOTE (ADD. ESC ITEMS):

CONTRACTOR TO PROVIDE THE FOLLOWING MATERIALS IN ADDITION TO THOSE SPECIFIED ON THE DRAWINGS TO BE INSTALLED AS DIRECTED BY CIVIL ENGINEER FOR THE PROJECT. THIS ADDITIONAL MATERIAL SHALL NOT BE USED FOR GENERAL MAINTENANCE. AT LEAST 10% OF THE QUANTITY SHALL BE READILY AVAILABLE ON SITE. THE QUANTITIES TO BE SUPPLIED ARE AS FOLLOWS:



LEGEND: LnA = LEON SAND, 0 TO 2 PERCENT SLOPES

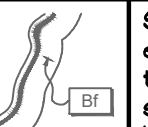
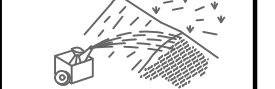
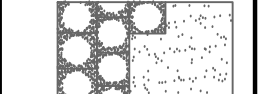
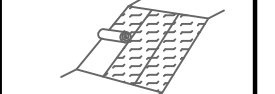
SOILS MAP

NOT TO SCALE

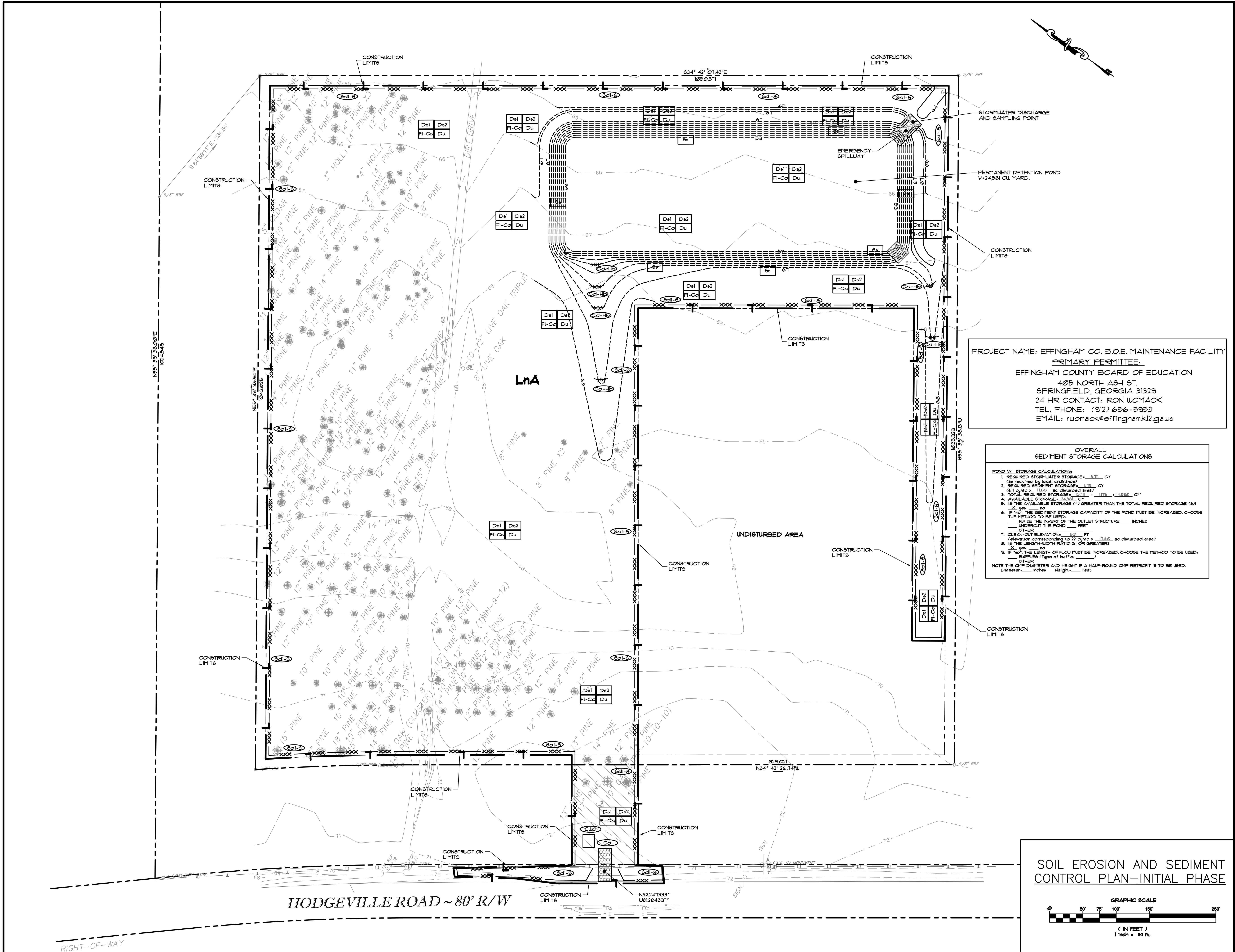
GEORGIA UNIFORM CODING SYSTEM

STRUCTURAL PRACTICES				
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a small drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud and debris thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travellway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A storm flow outlet device constructed at two grade areas where a highly concentrated runoff may be discharged at a non-erosive velocity onto undisturbed areas stabilized by existing vegetation.
Rd	ROCK FILTER DAM			A temporary stone filter dam installed across drainage or in conjunction with a temporary sediment trap.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, or a silt fence.
Sd2	INLET SEDIMENT TRAP			A temporary protective device formed at or around an inlet to a storm drain to trap sediment.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intertidal

STRUCTURAL PRACTICES				
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
(Sr)	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
(St)	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
(Su)	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
(Tc)	TURBIDITY CURTAIN			A floating or stacked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
(Tp)	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
(Tr)	TREE PROTECTION			To protect desirable trees from injury during construction activity.
(Wt)	VEGETATED WATERWAY OR STORMWATER CONVEYANCE			Paved or vegetative water outlets for diversion, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES				
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SOODING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks or to prevent, or restore and repeat small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

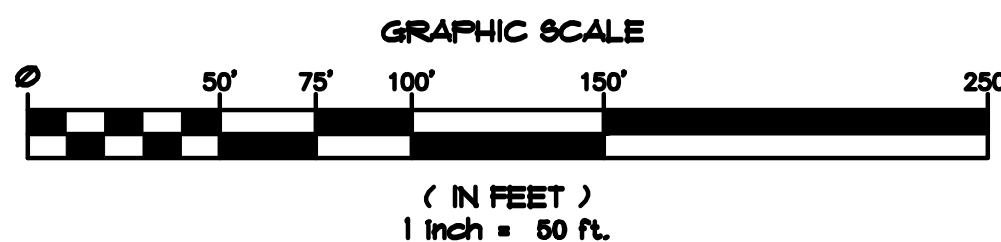
GaSWCC (Amended - 2016)



PROJECT NAME: EFFINGHAM CO. B.O.E. MAINTENANCE FACILITY
PRIMARY PERMITTEE:
EFFINGHAM COUNTY BOARD OF EDUCATION
405 NORTH ASH ST.
SPRINGFIELD, GEORGIA 31329
24 HR CONTACT: RON WOMACK
TEL. PHONE: (912) 656-5953
EMAIL: rwomack@effingham.k12.ga.us

OVERALL SEDIMENT STORAGE CALCULATIONS	
POND 'A' STORAGE CALCULATIONS:	
1. REQUIRED STORMWATER STORAGE (as required by local ordinance)	13,711 CY
2. REQUIRED SEDIMENT STORAGE (6.1 cys/ac x 11.6 ac disturbed area)	1175 CY
3. TOTAL REQUIRED STORAGE	14,886 CY
4. AVAILABLE STORAGE (15.711 ac x 14.6 cys/ac)	14,886 CY
5. IS THE AVAILABLE STORAGE (4) GREATER THAN THE TOTAL REQUIRED STORAGE (3)?	X yes
6. IF "NO", THE SEDIMENT STORAGE CAPACITY OF THE POND MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:	
RAISE THE INVERT OF THE OUTLET STRUCTURE	INCHES
OTHER	FEET
7. CLEAN-OUT ELEVATION (elevation corresponding to 22 cys/ac x 11.6 ac disturbed area)	6.0 FT
8. IS THE LENGTH-TO-WIDTH RATIO 2:1 OR GREATER?	X yes
9. IF "NO", THE LENGTH OF FLOW MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:	
BAFFLES (Type of baffle)	
OTHER	
NOTE THE CHIP DIAMETER AND HEIGHT IF A HALF-ROUND CHIP RETROFIT IS TO BE USED.	
Diameter	INCHES
Height	FEET

SOIL EROSION AND SEDIMENT
CONTROL PLAN-INITIAL PHASE



EFFINGHAM COUNTY B.O.E. MAINTENANCE FACILITY
GEORGIA
EFFINGHAM COUNTY BOARD OF EDUCATION
GUYTON

JAMES W. BUCKLEY & ASSOCIATES INC. - ARCHITECTS, CIVIL ENGINEERS
SWANSBORO, ALBANY, ROME, AND SAVANNAH

SOIL EROSION AND SEDIMENT
CONTROL PLAN-INITIAL PHASE

GEORGIA
REGISTERED
PROFESSIONAL
ENGINEER
WILLIAM D. WATKINS
No. 36129
EXPIRATION DATE 12/31/2024

811
Know what's below.
Call before you dig.

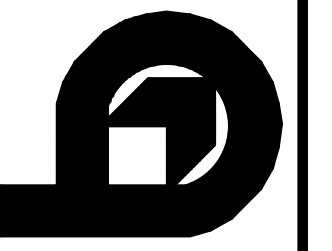
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12-20-2024
DATE
22-065
PROJECT NO.

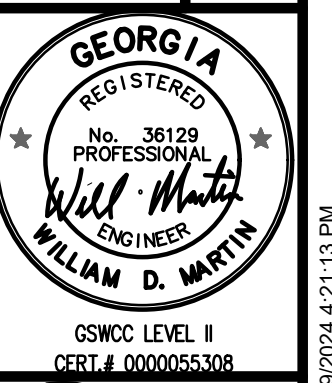
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Effingham County School District, Effingham County School Maintenance Facility - Civil Engineering - 12/20/2024, 1:10:32 PM



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EFFINGHAM COUNTY BOARD OF EDUCATION
GUYTON
JAMES W. BUCKLEY & ASSOCIATES INC. - ARCHITECTS, CIVIL ENGINEERS
SWANSBORO, ALBANY, ROME AND SAVANNAH, GEORGIA

SOIL EROSION AND SEDIMENT
CONTROL PLAN-INTERMEDIATE PHASE



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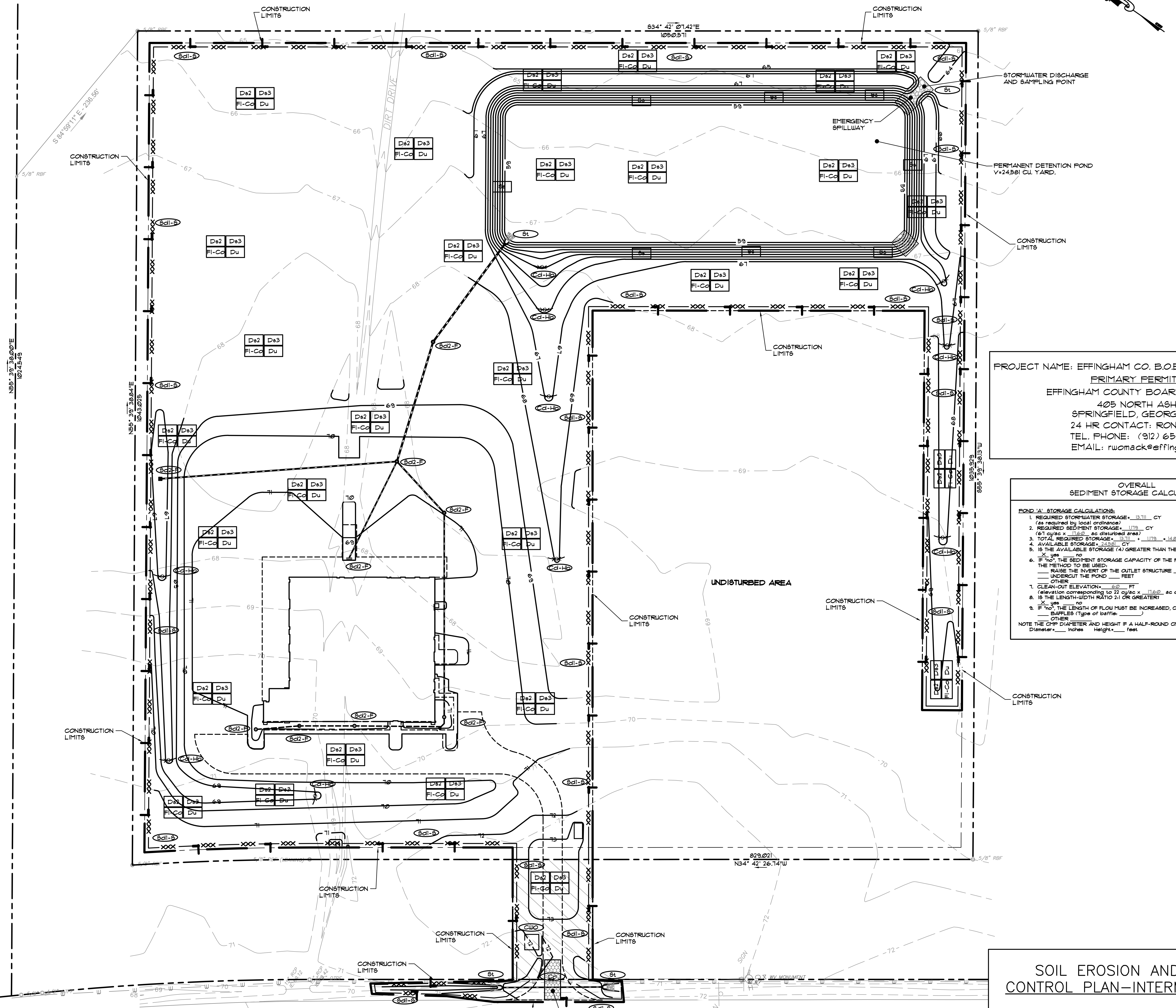
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12-20-2024

PROJECT NO.
22-065

SHEET NUMBER

SE1.1

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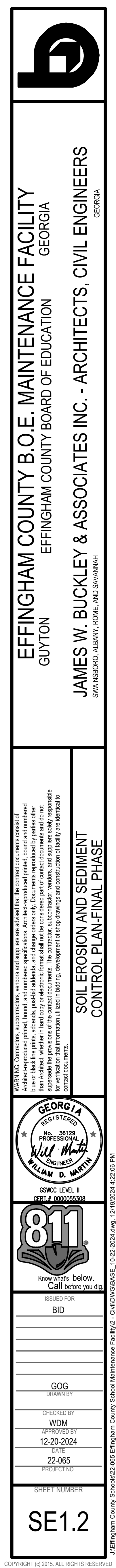


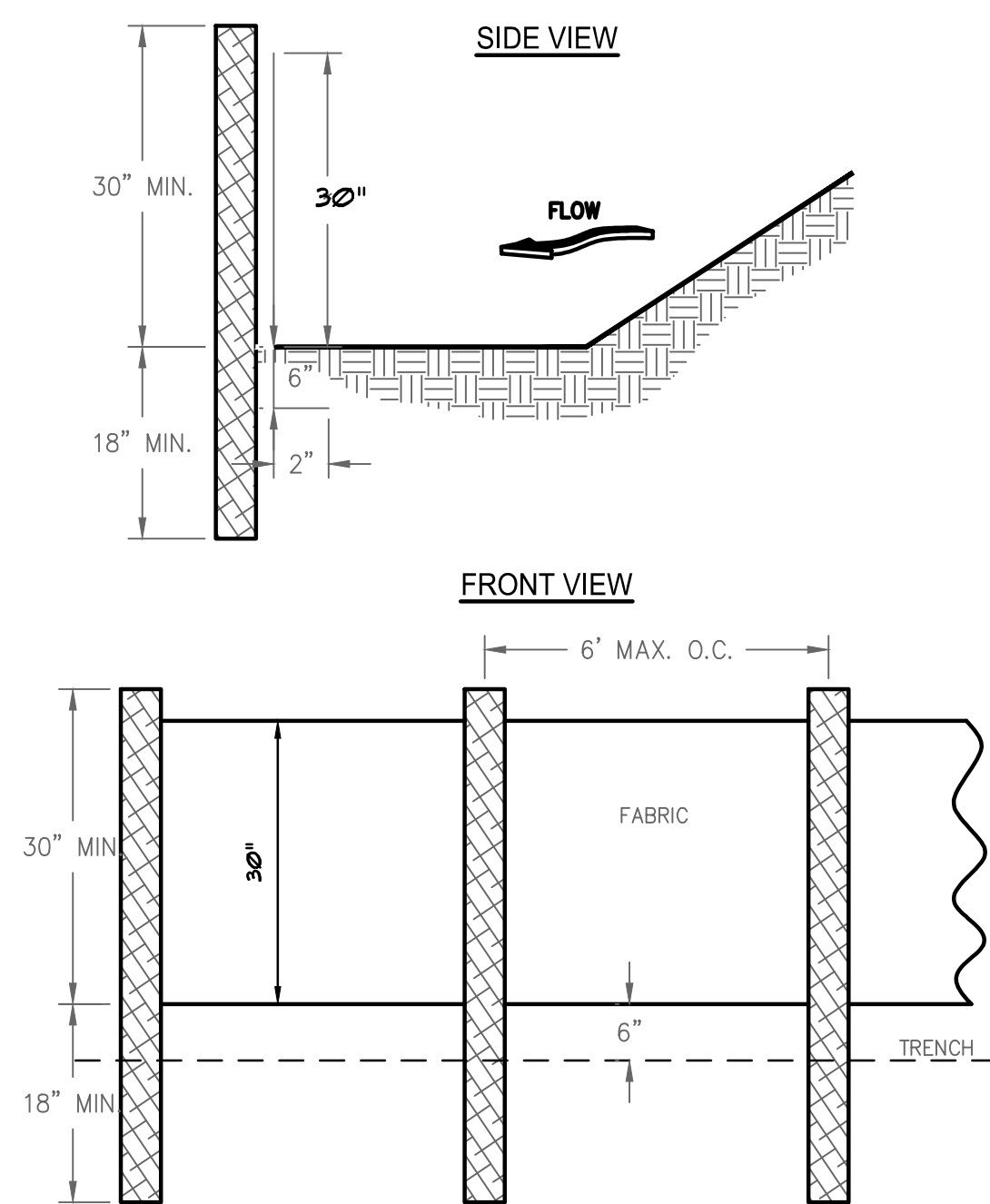
PROJECT NAME: EFFINGHAM CO. B.O.E. MAINTENANCE FACILITY
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OVERALL SEDIMENT STORAGE CALCULATIONS	
POND 'A' STORAGE CALCULATIONS:	
1. REQUIRED STORMWATER STORAGE = <u>15,711</u> CY (as required by local ordinance)	
2. REQUIRED SEDIMENT STORAGE = <u>1,179</u> CY (61 cu/cac x <u>19.62</u> ac disturbed area)	
3. TOTAL REQUIRED STORAGE = <u>15,711</u> + <u>1,179</u> = <u>16,890</u> CY	
4. AVAILABLE STORAGE = <u>14,850</u> CY	
IS THE AVAILABLE STORAGE (4) GREATER THAN THE TOTAL REQUIRED STORAGE (3)?	
YES	NO
IF "NO", THE SEDIMENT STORAGE CAPACITY OF THE POND MUST BE INCREASED. CHOOSE THE METHOD TO INCREASE THE STORAGE CAPACITY OF THE POND:	
1. RAISE THE INVERT OF THE OUTLET STRUCTURE _____ INCHES	
2. UNDERCUT THE POND _____ FEET	
3. OTHER _____	
5. CLEAN-OUT ELEVATION _____ FT (elevation corresponding to 22 cu/cac x <u>19.62</u> ac disturbed area)	
IS THE LENGTH-WIDTH RATIO 2:1 OR GREATER?	
YES	NO
IF "NO", THE LENGTH OF FLOW MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:	
1. SUPPLIED (Type of buffer _____)	
2. OTHER _____	
NOTE THE C/P DIAMETER AND HEIGHT IF A HALF-ROUND C/P RETROFIT IS TO BE USED.	
Diameter = _____ inches	Height = _____ feet

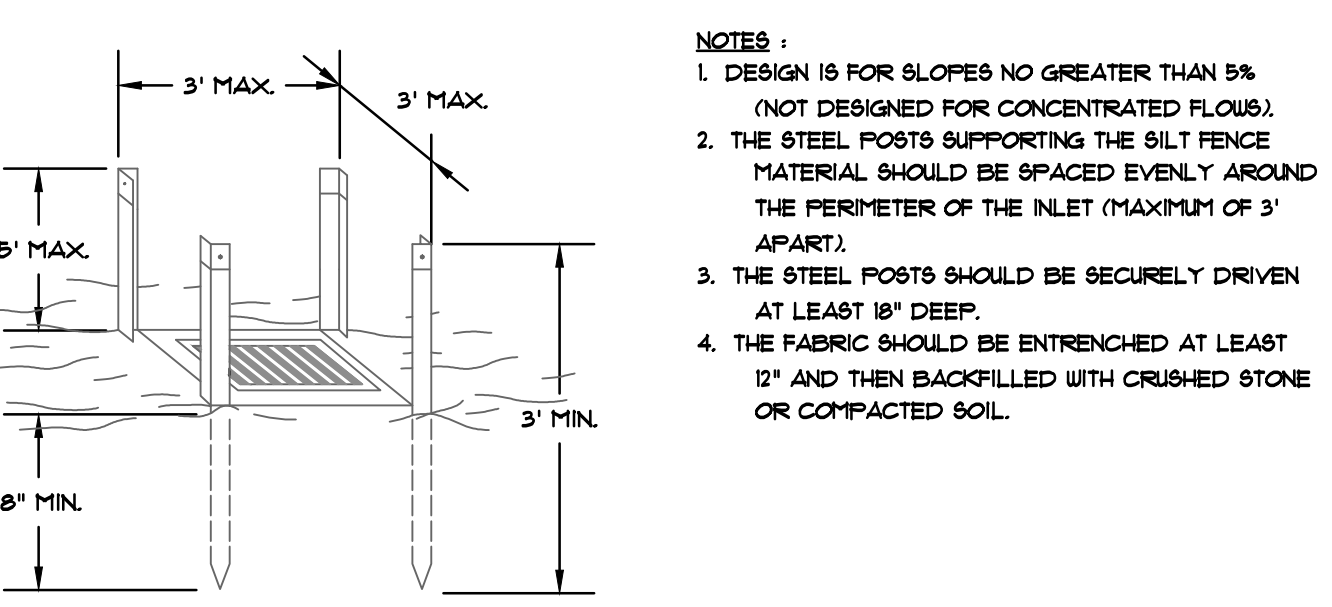
SOIL EROSION AND SEDIMENT
CONTROL PLAN-INTERMEDIATE PHASE

GRAPHIC SCALE
0 50' 75' 100' 150' 200' 250'
(IN FEET)
1 inch = 50 ft.

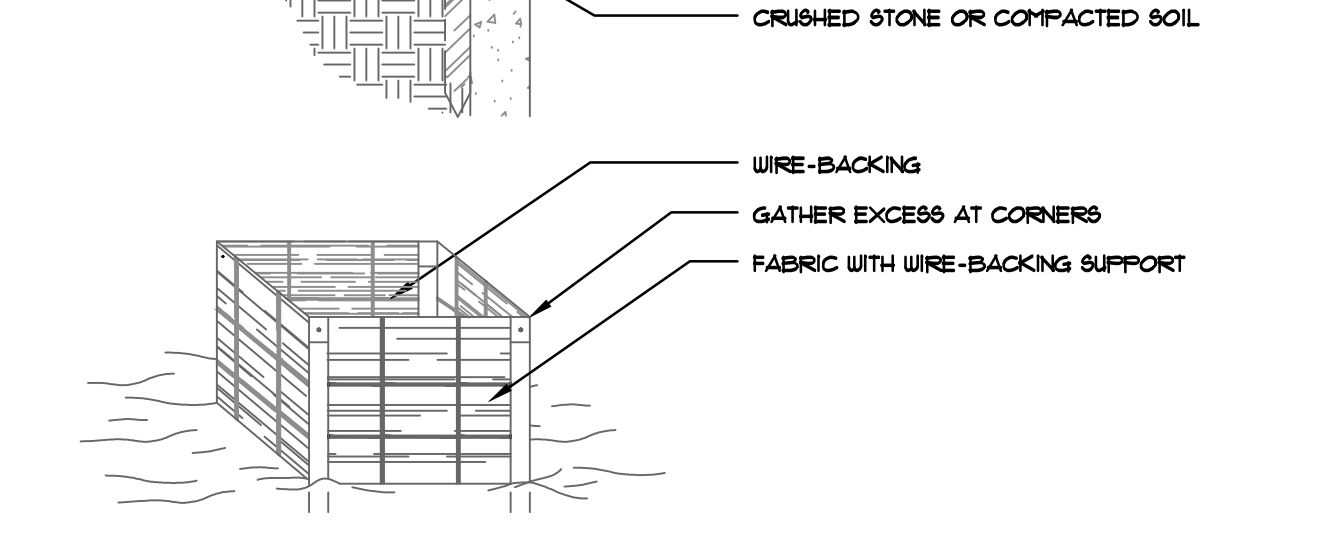




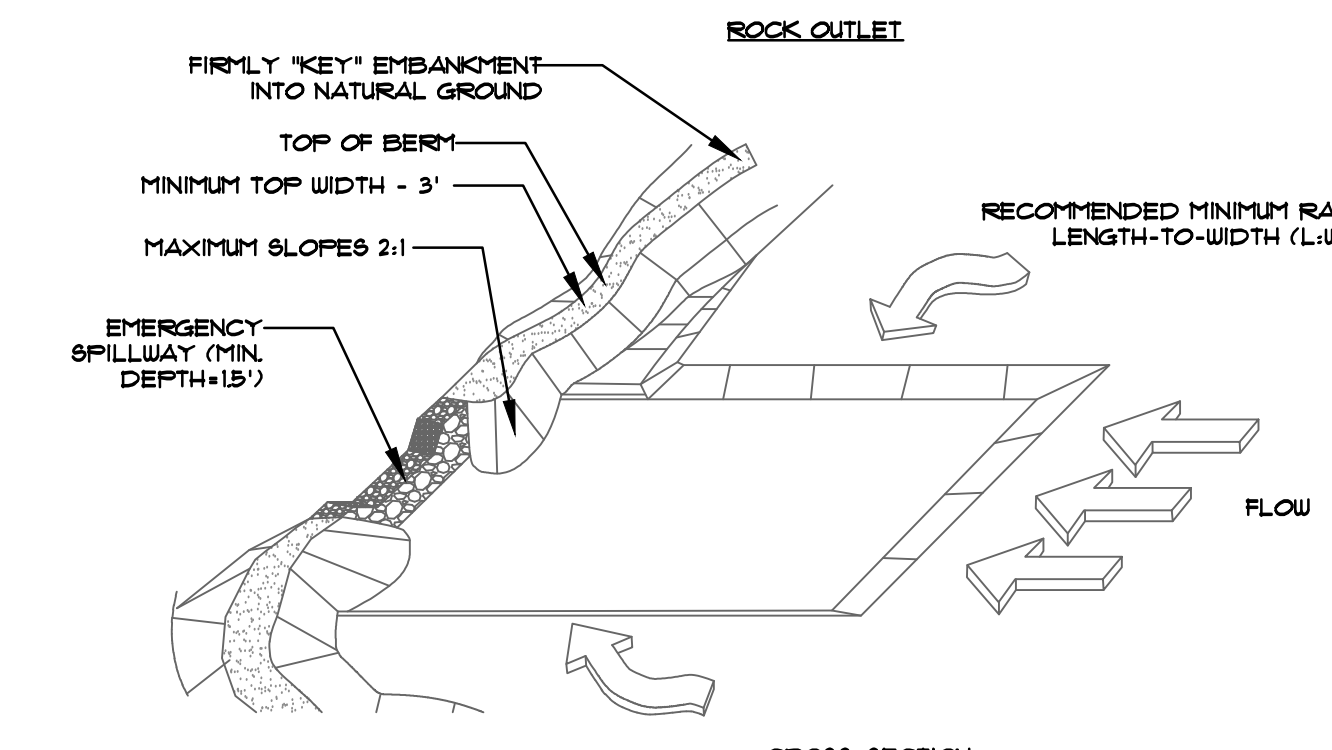
8d-NS SILT FENCE - NON-SENSITIVE
NOT TO SCALE



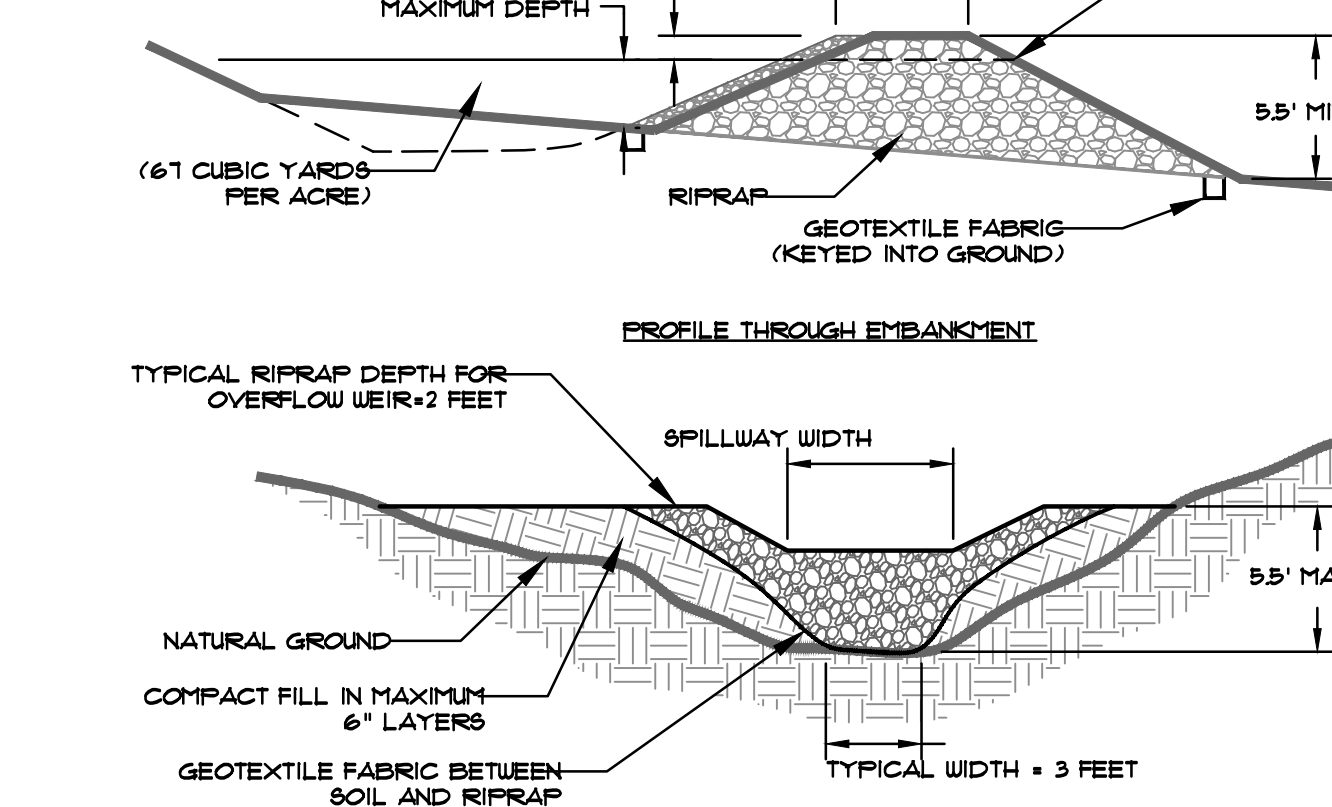
8d-S SILT FENCE - SENSITIVE
NOT TO SCALE



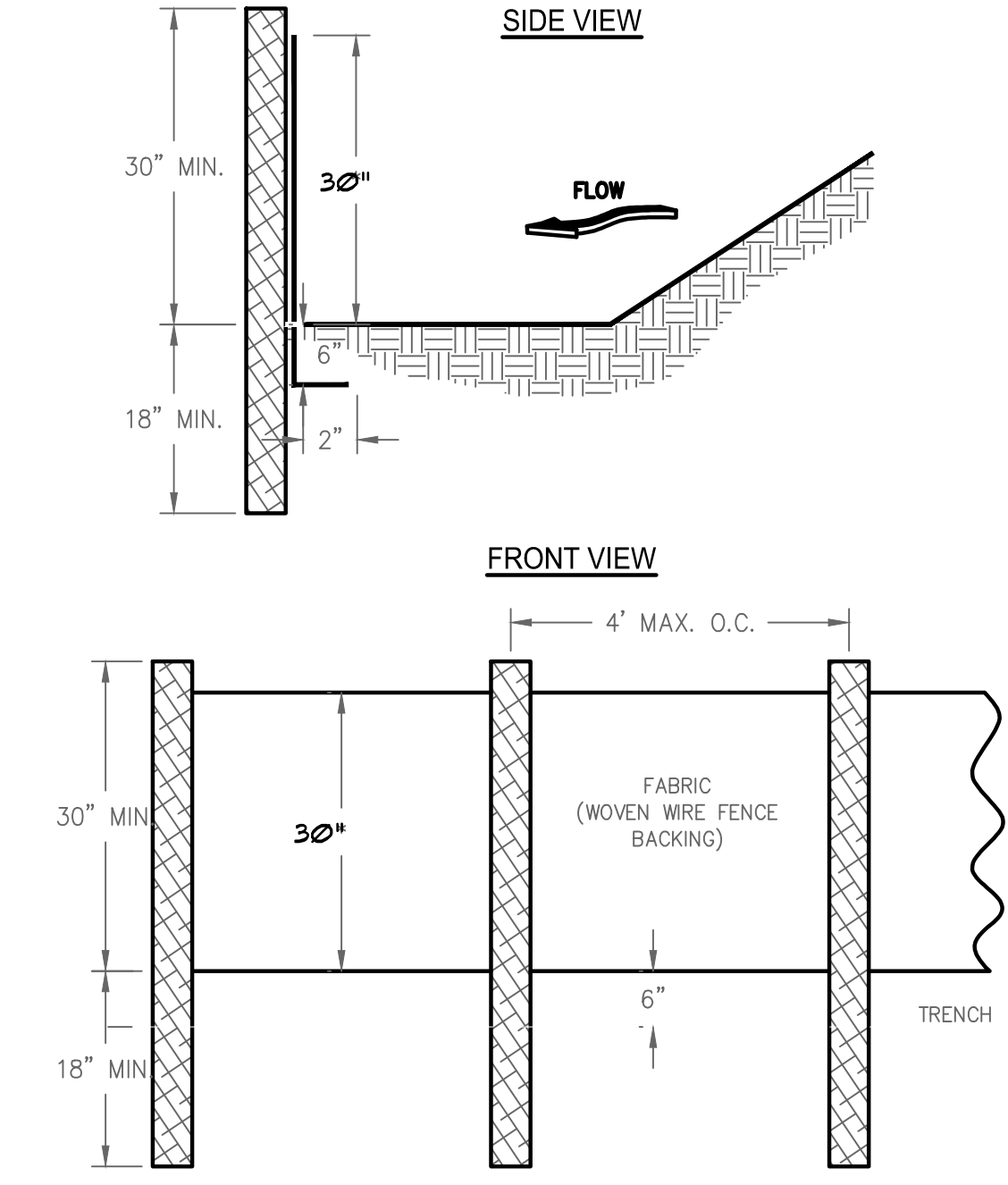
8d-TS TEMPORARY SEDIMENT TRAP
NOT TO SCALE



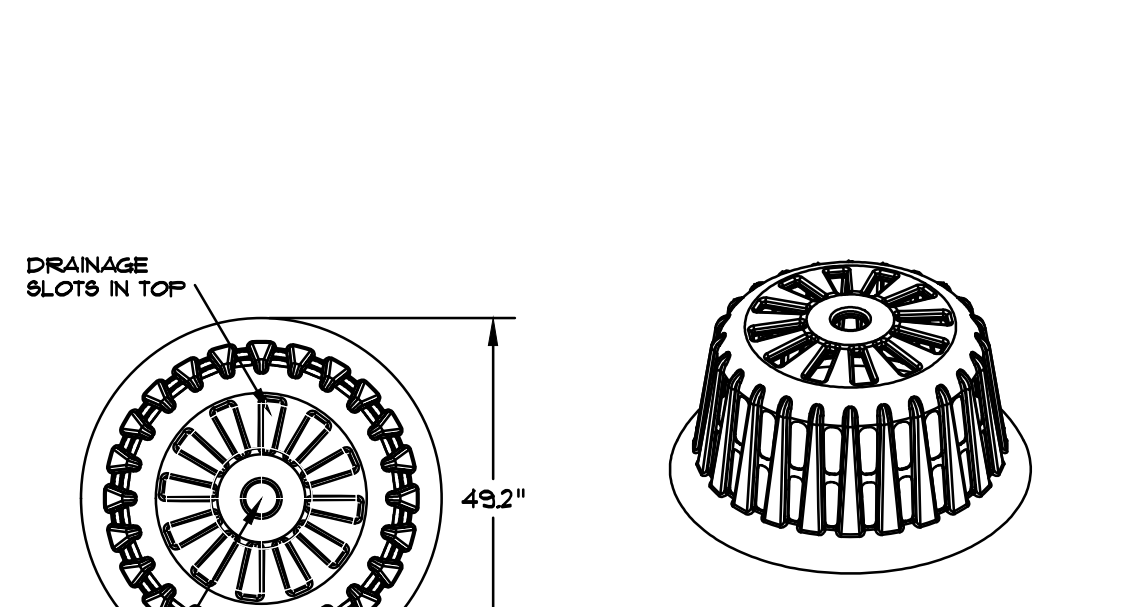
8d-F FABRIC FRAME INLET PROTECTION
NOT TO SCALE



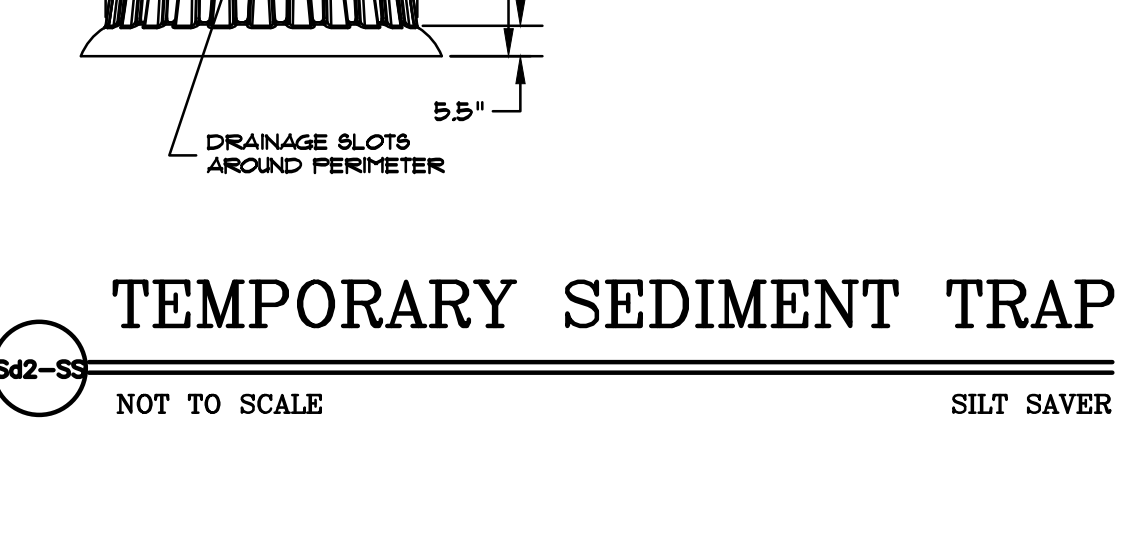
8d-C RIP RAP OUTLET PROTECTION
NOT TO SCALE



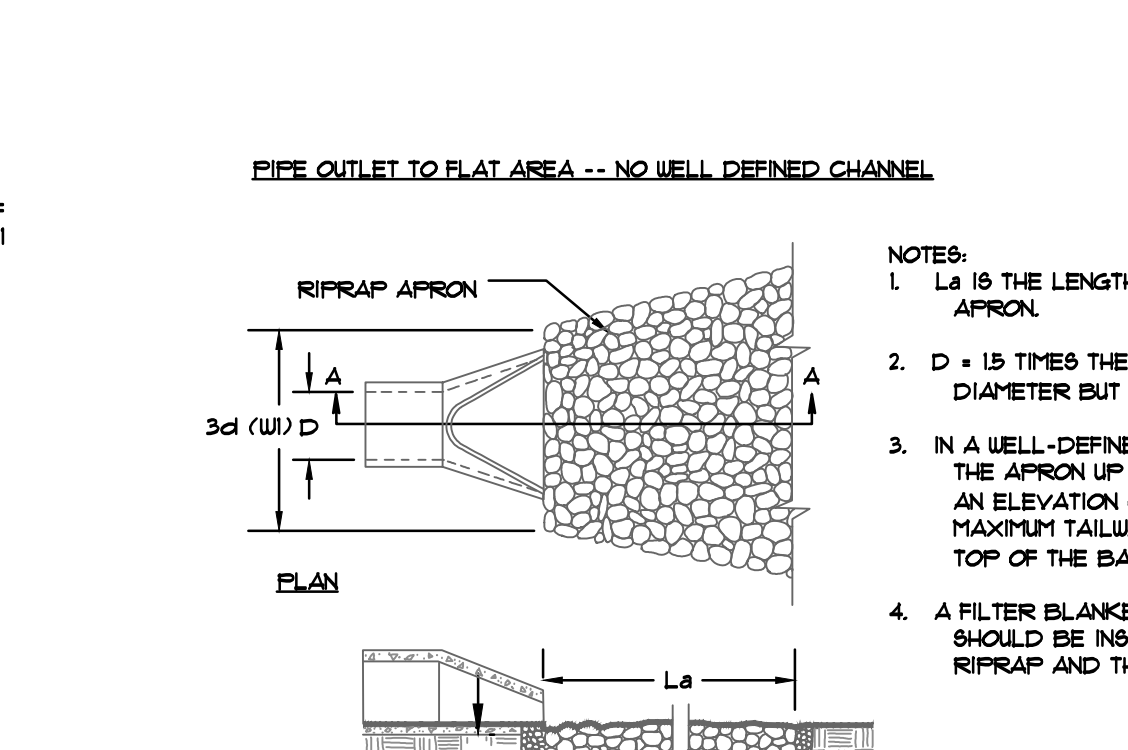
8d-SLOPE STABILIZATION
NOT TO SCALE



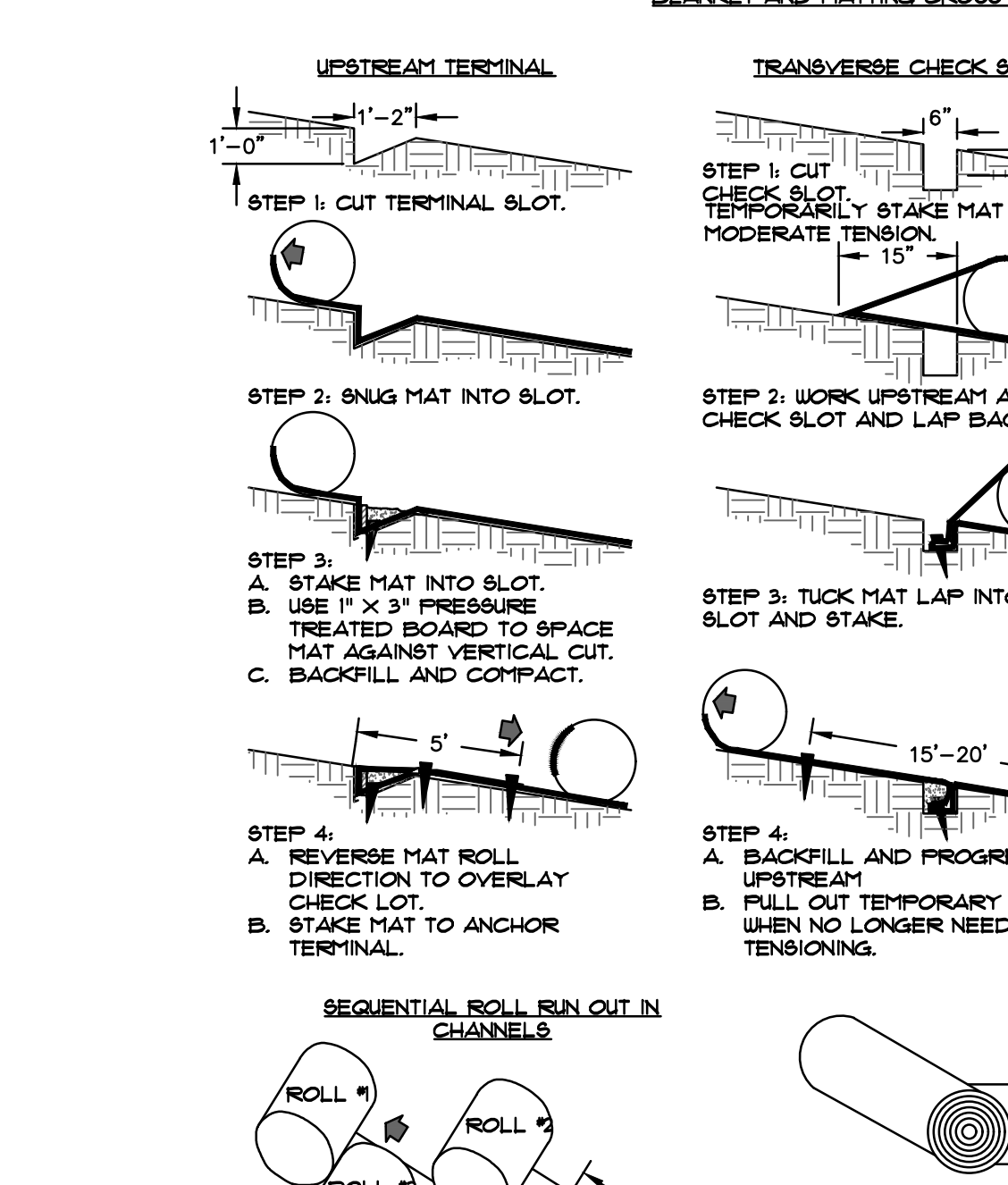
8d-TS TEMPORARY SEDIMENT TRAP
NOT TO SCALE



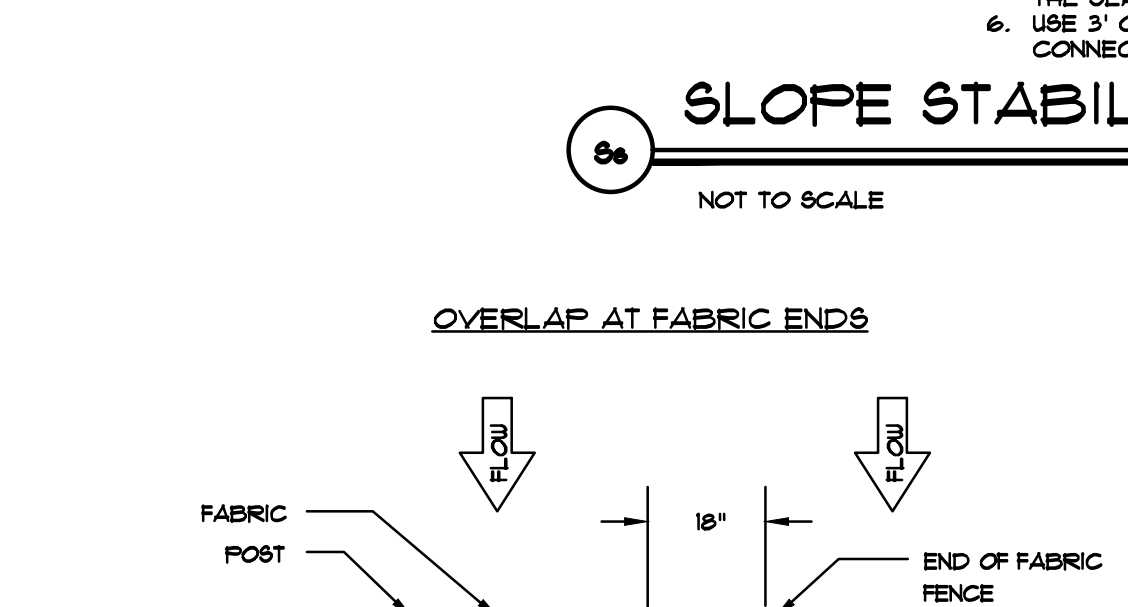
8d-F FABRIC FRAME INLET PROTECTION
NOT TO SCALE



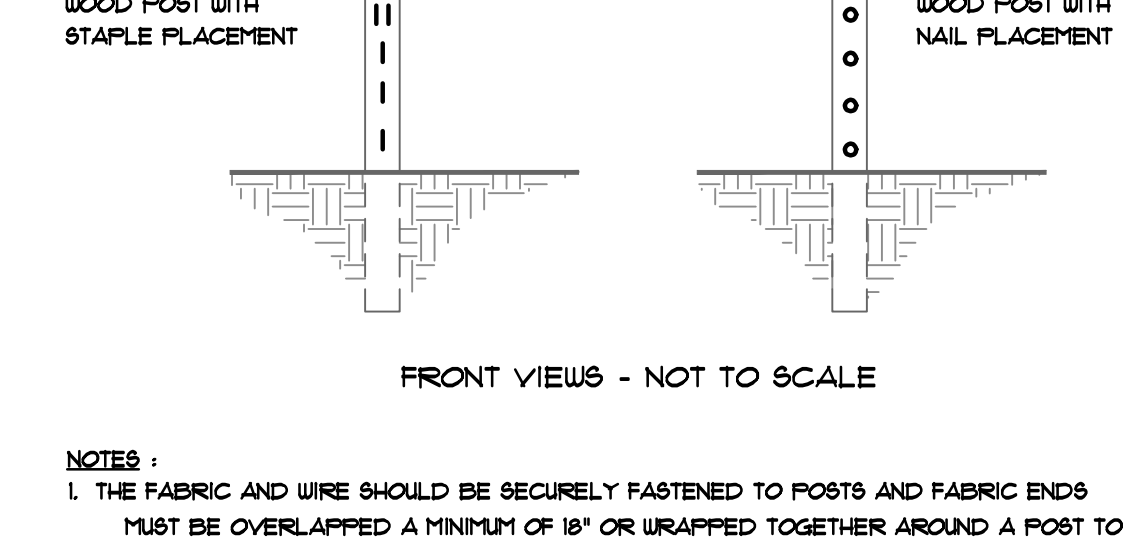
8d-C RIP RAP OUTLET PROTECTION
NOT TO SCALE



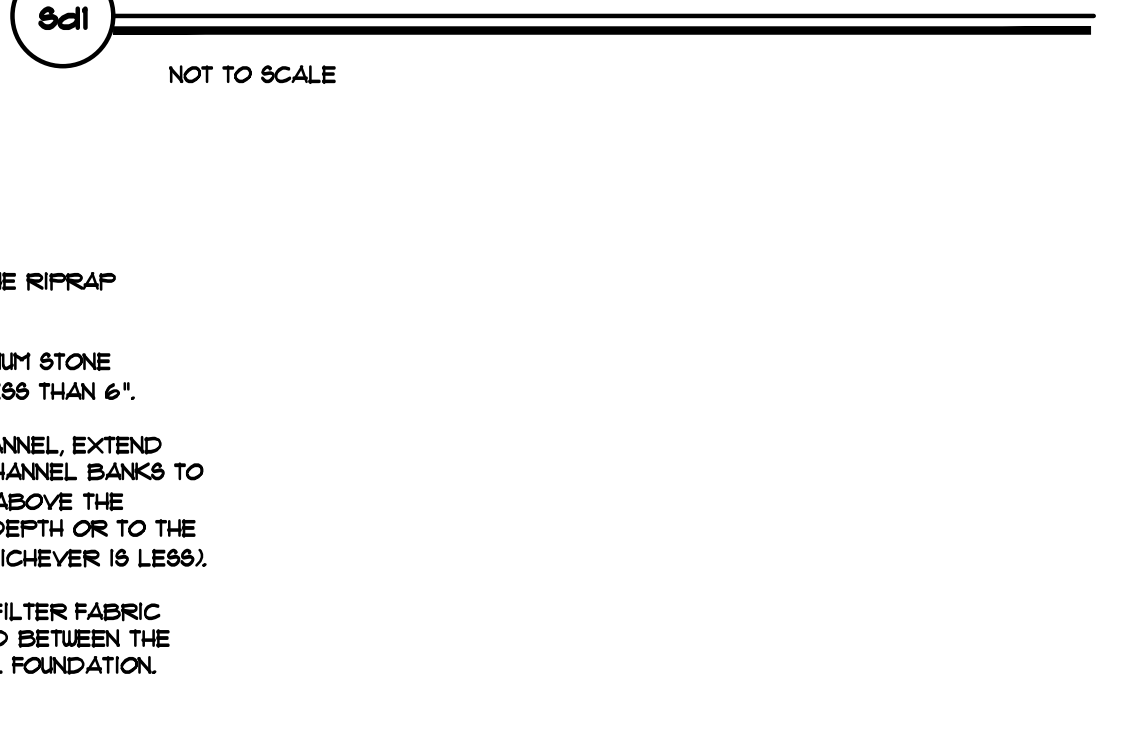
8d-TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)
NOT TO SCALE



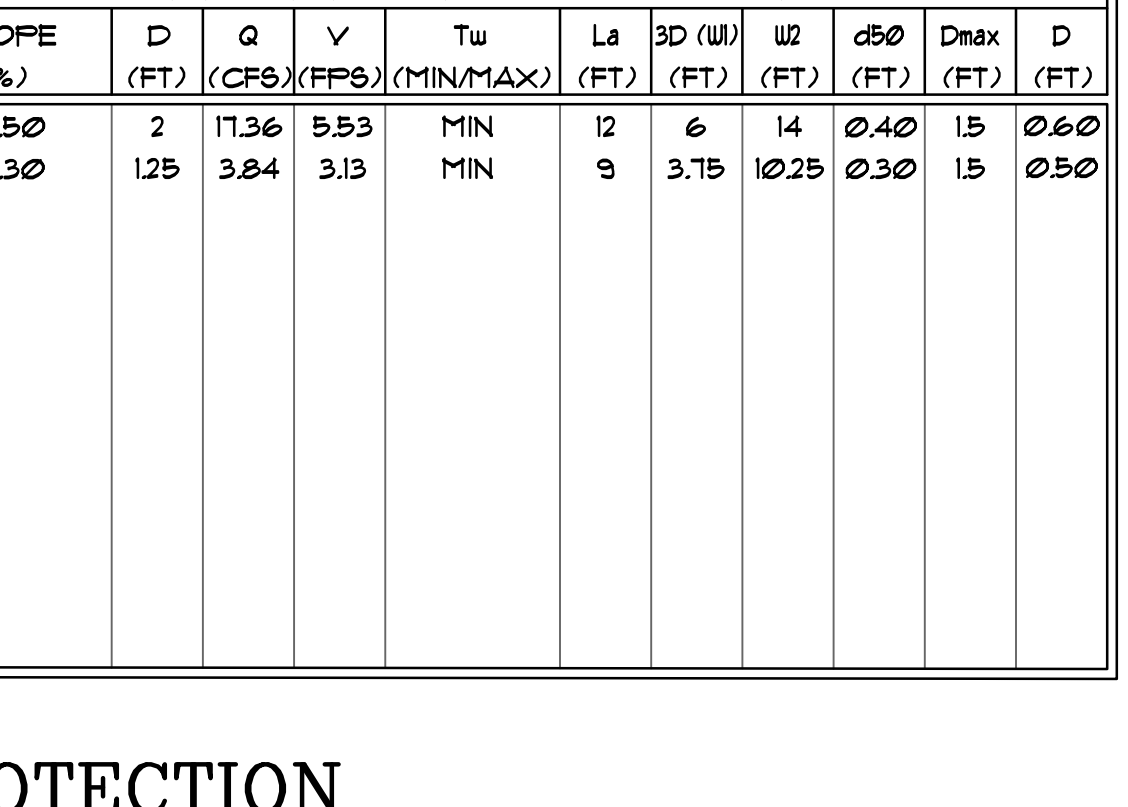
8d-SLOPE STABILIZATION
NOT TO SCALE



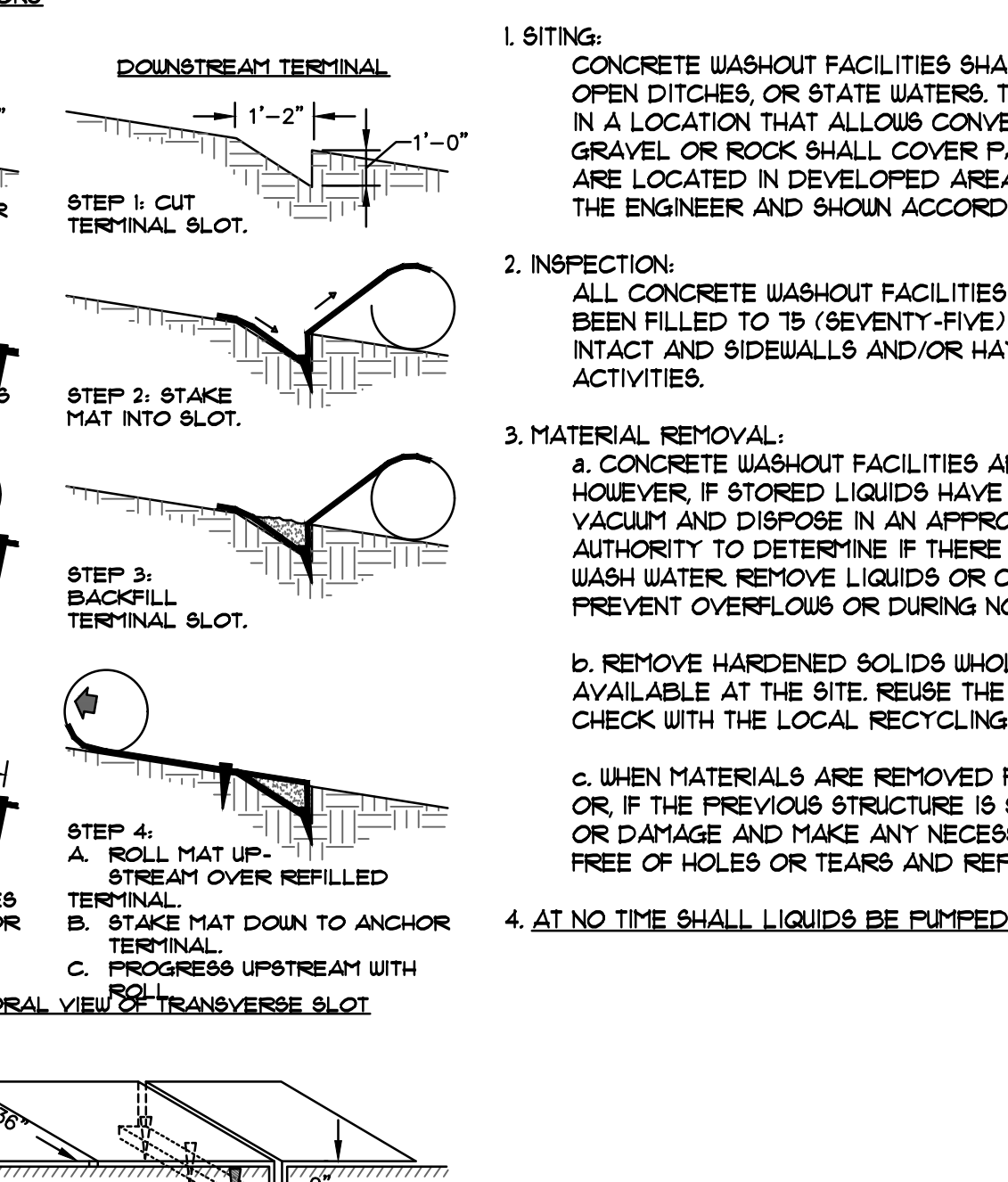
8d-TS TEMPORARY SEDIMENT TRAP
NOT TO SCALE



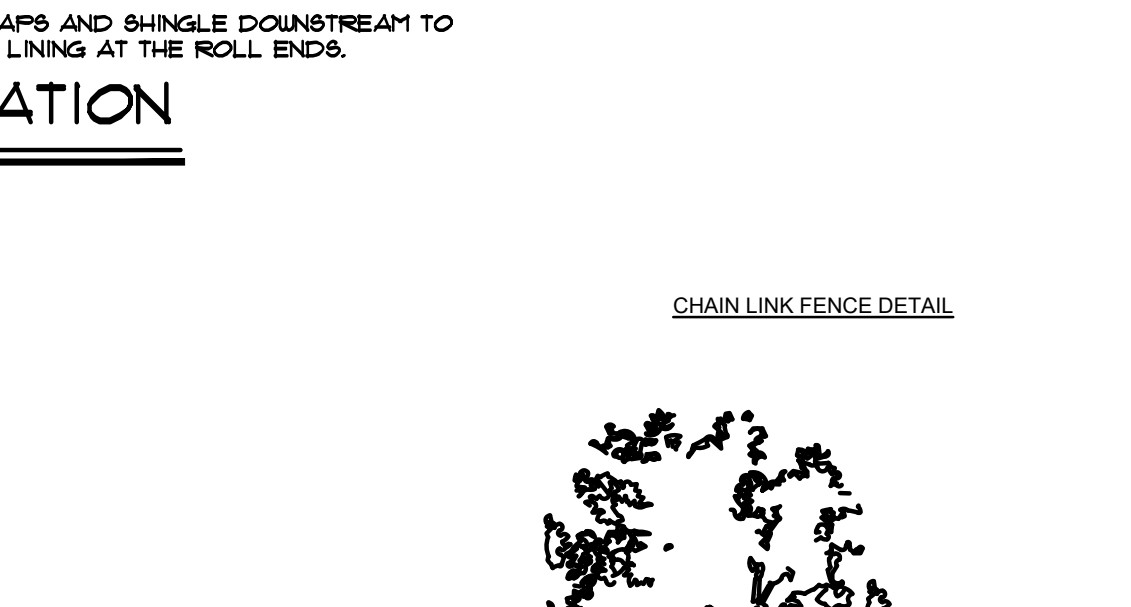
8d-F FABRIC FRAME INLET PROTECTION
NOT TO SCALE



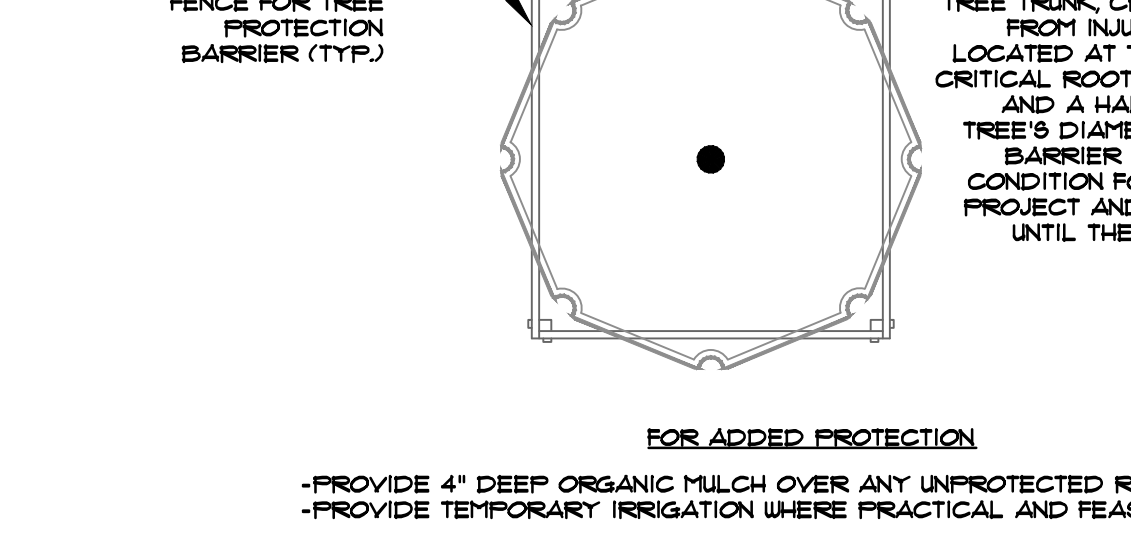
8d-C RIP RAP OUTLET PROTECTION
NOT TO SCALE



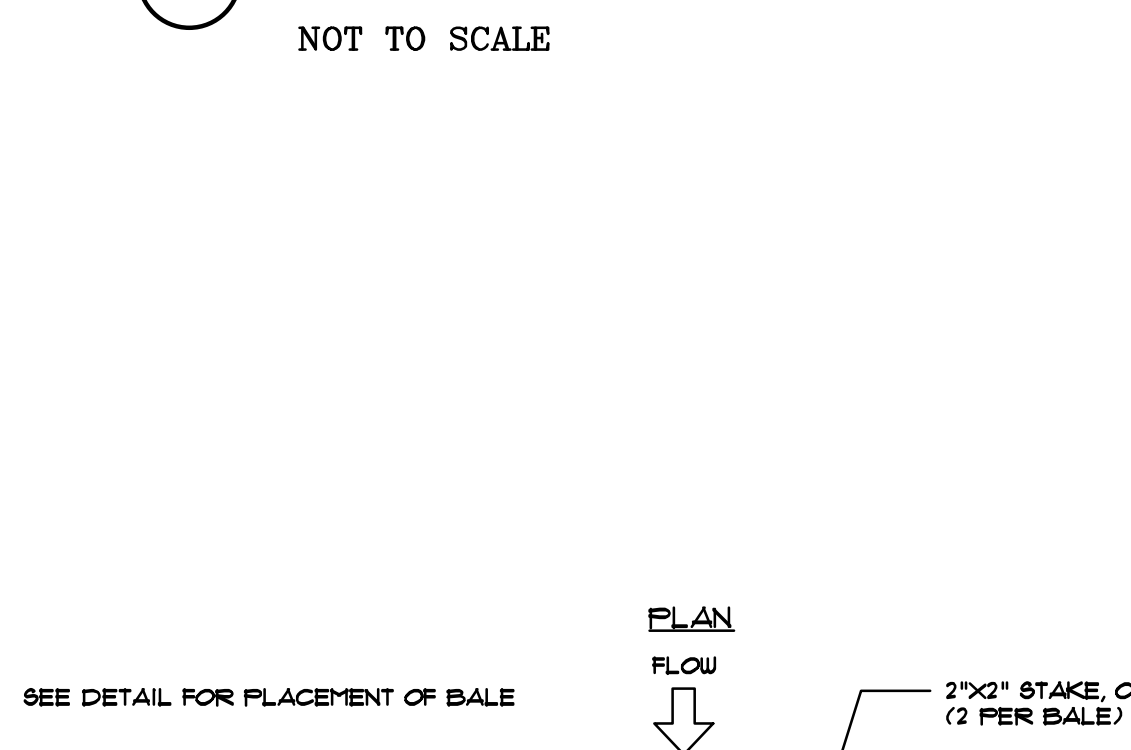
8d-CA CONCRETE WASHOUT AREA
NOT TO SCALE



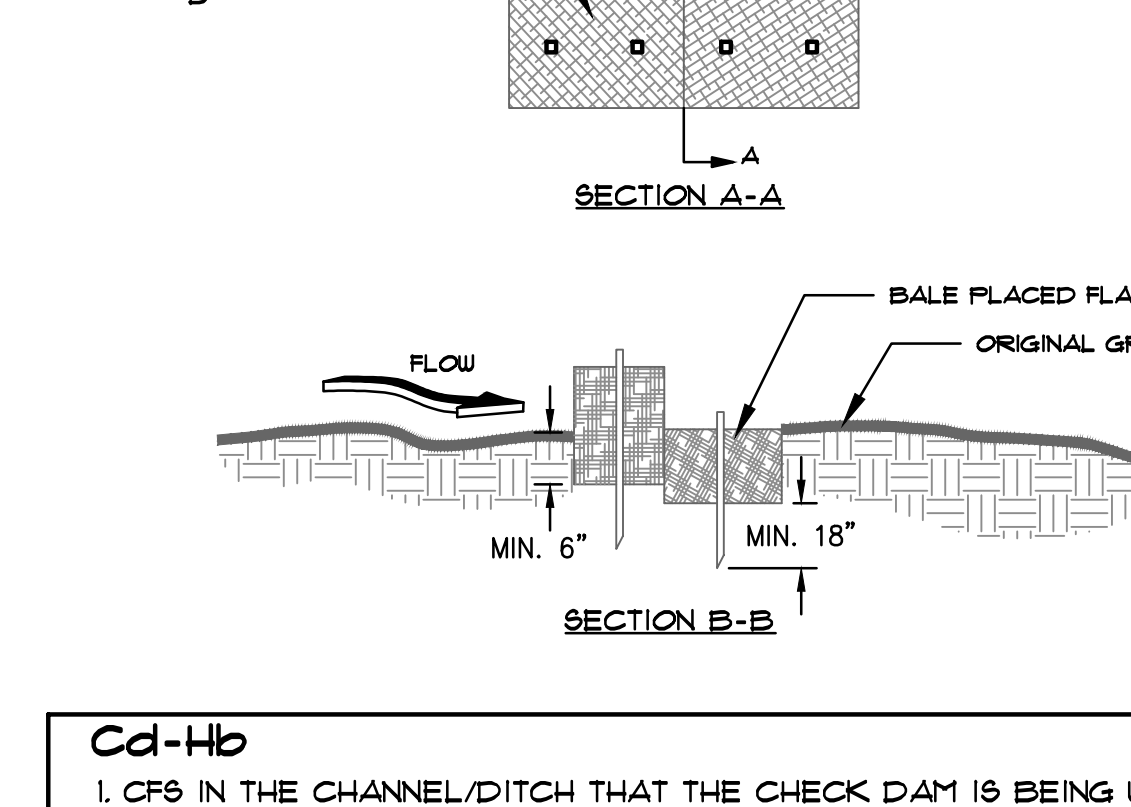
8d-SLOPE STABILIZATION
NOT TO SCALE



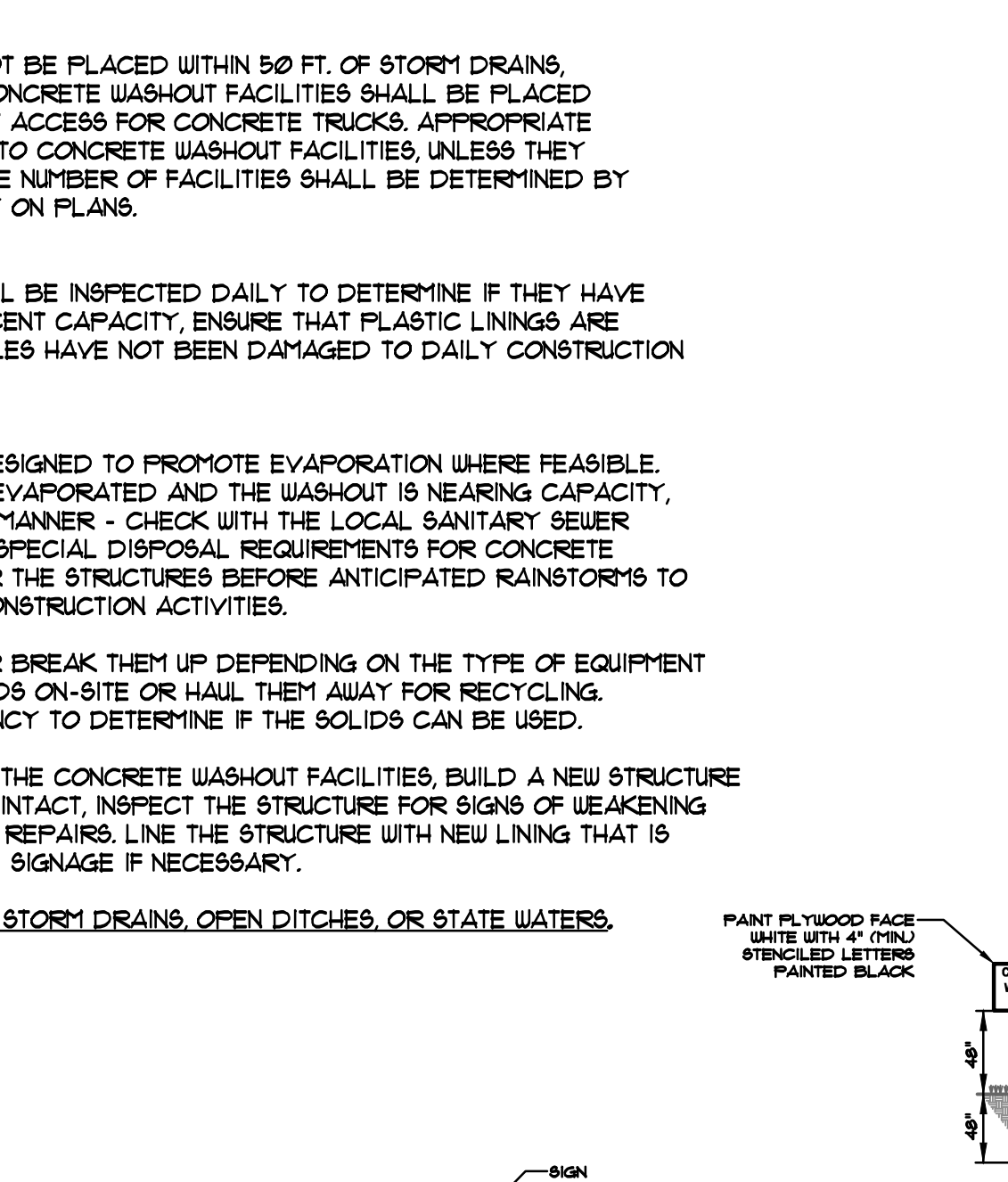
8d-TS TEMPORARY SEDIMENT TRAP
NOT TO SCALE



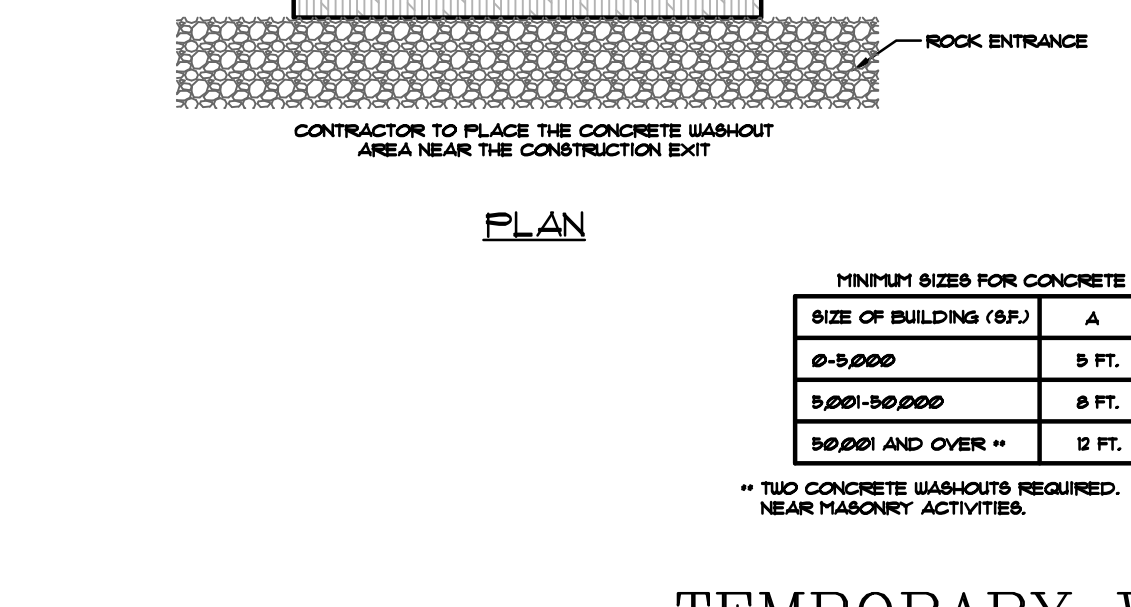
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NOT TO SCALE



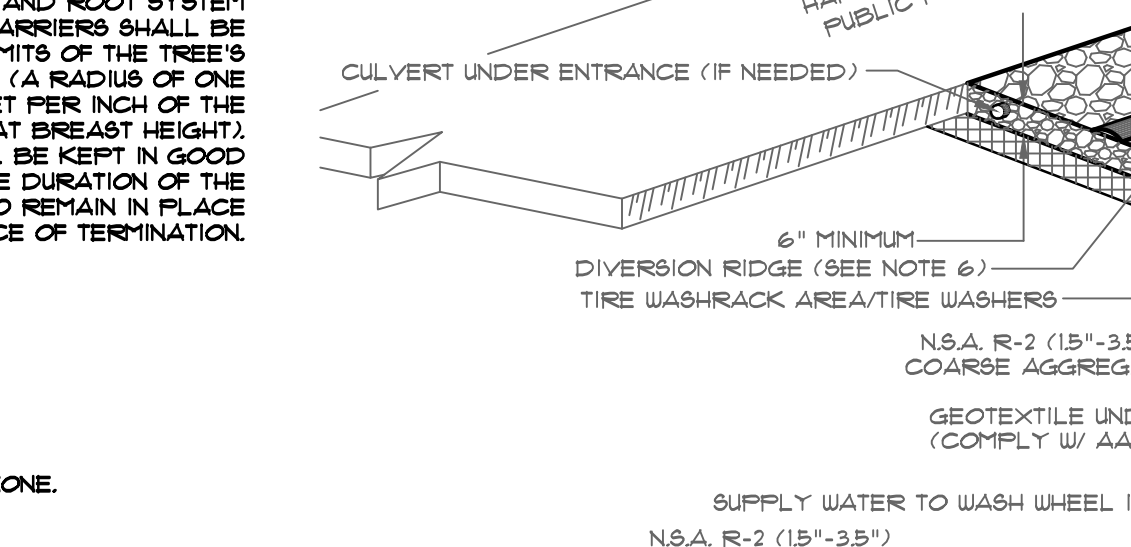
8d-C RIP RAP OUTLET PROTECTION
NOT TO SCALE



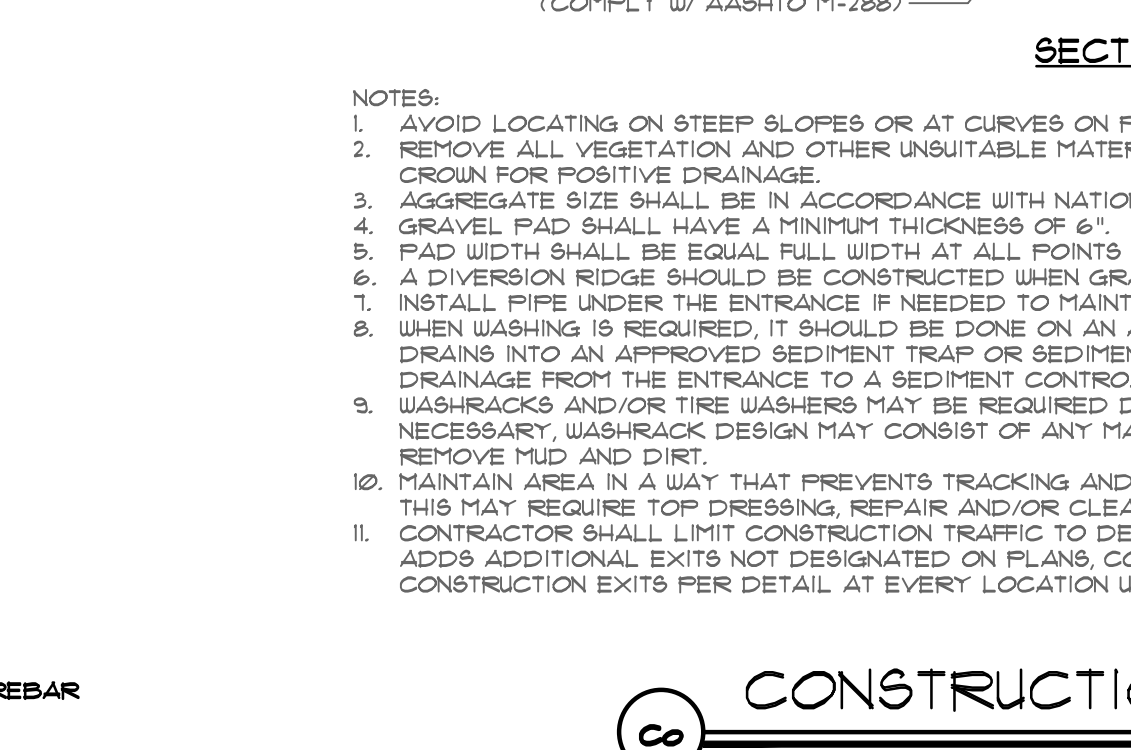
8d-TS TEMPORARY SEDIMENT TRAP
NOT TO SCALE



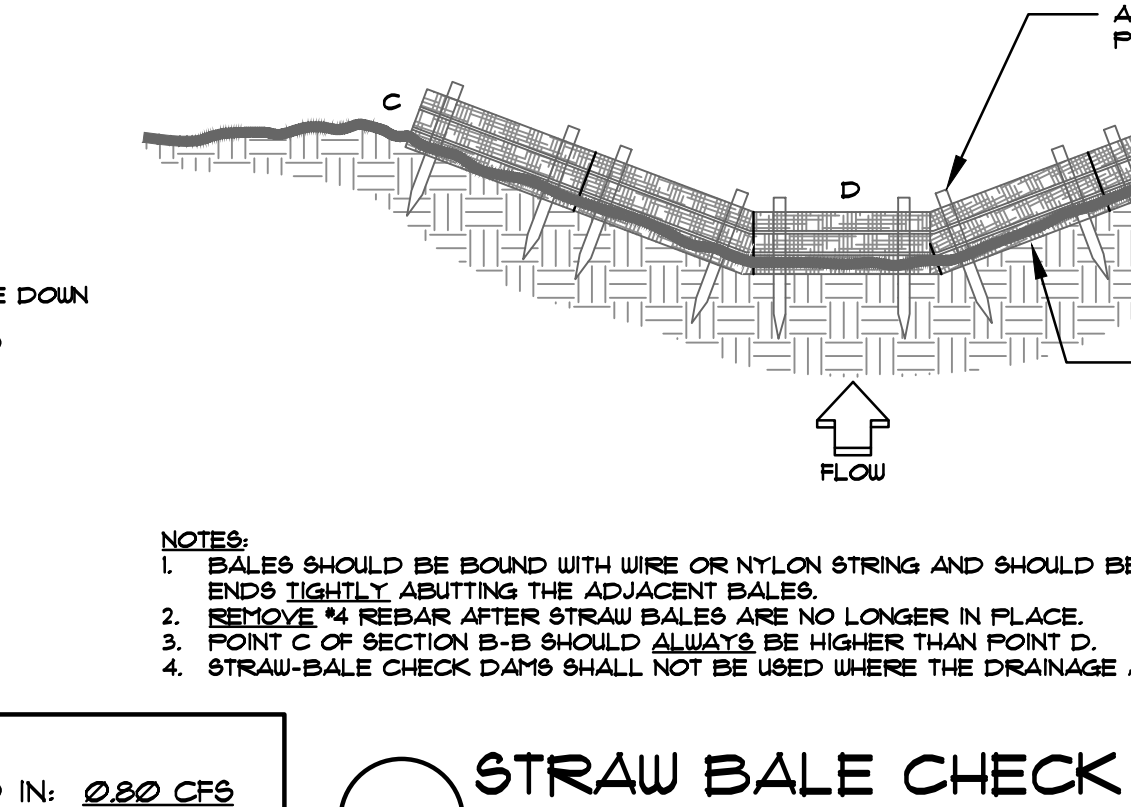
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NOT TO SCALE



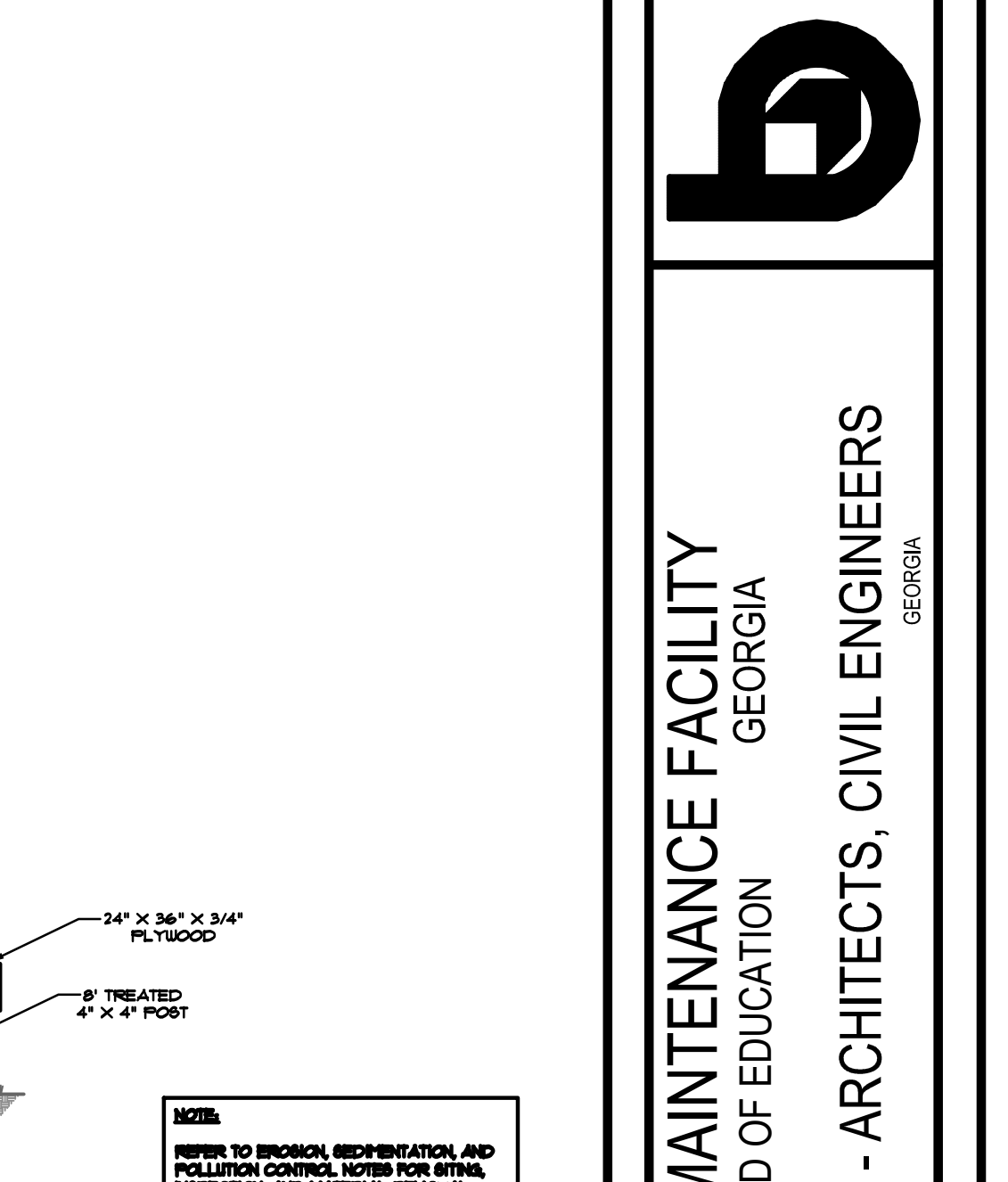
8d-C RIP RAP OUTLET PROTECTION
NOT TO SCALE



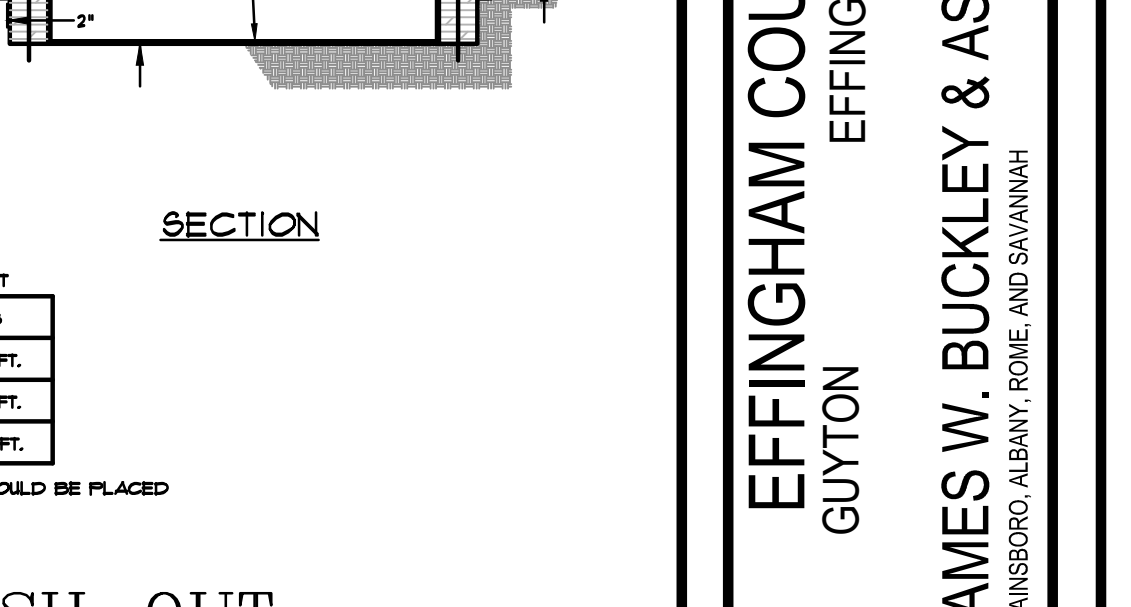
8d-TS TEMPORARY SEDIMENT TRAP
NOT TO SCALE



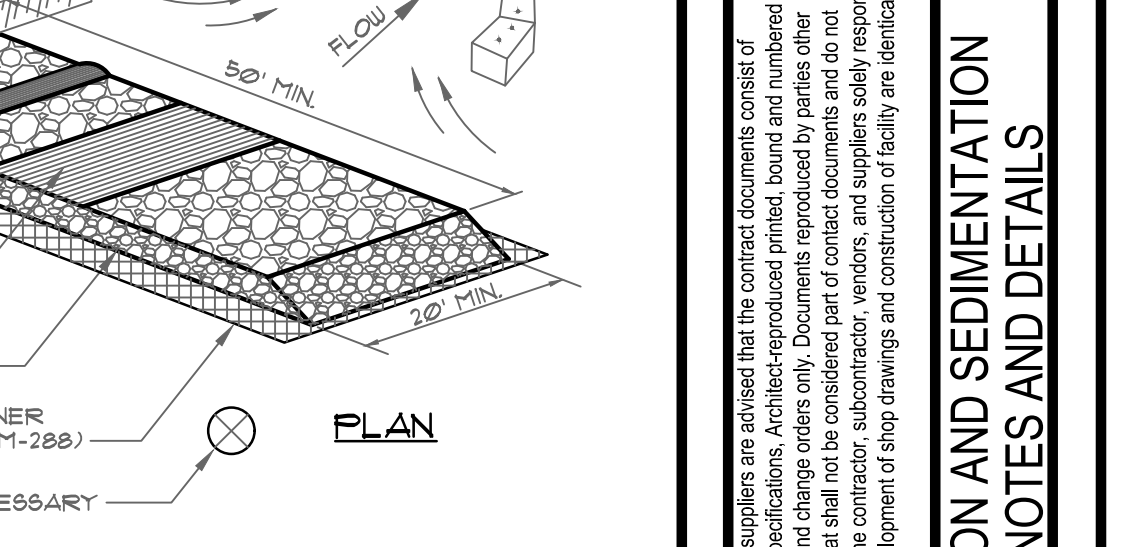
8d-F FABRIC FRAME INLET PROTECTION
NOT TO SCALE



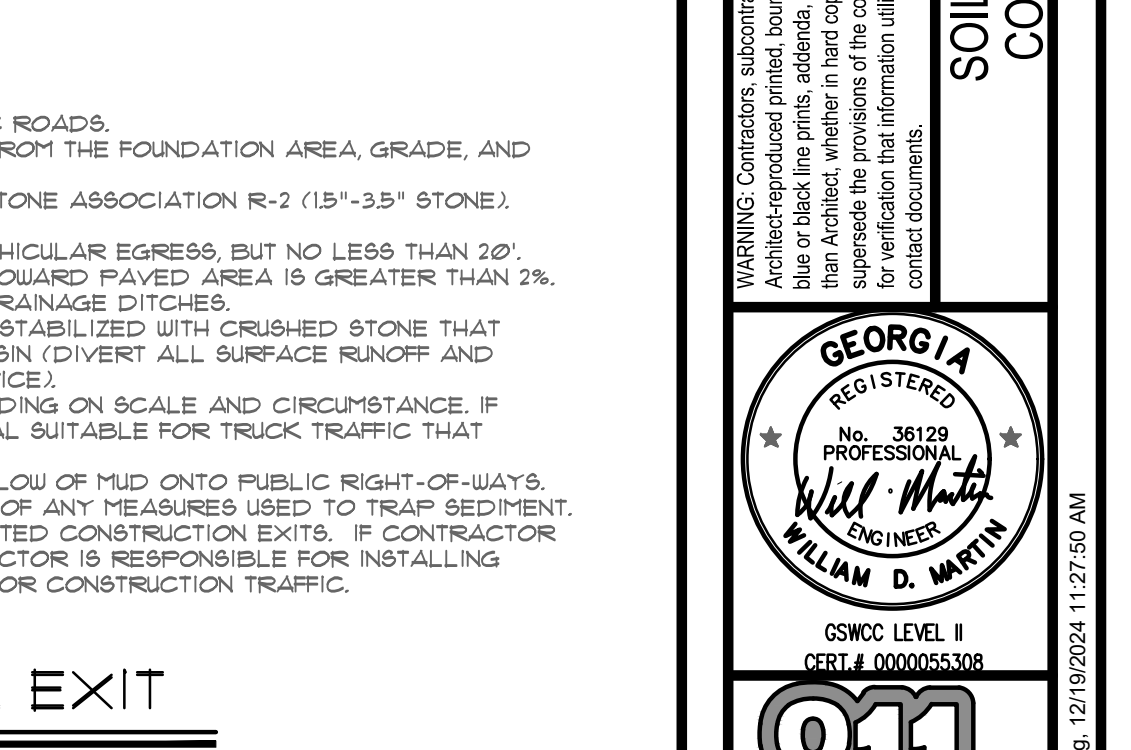
8d-SLOPE STABILIZATION
NOT TO SCALE



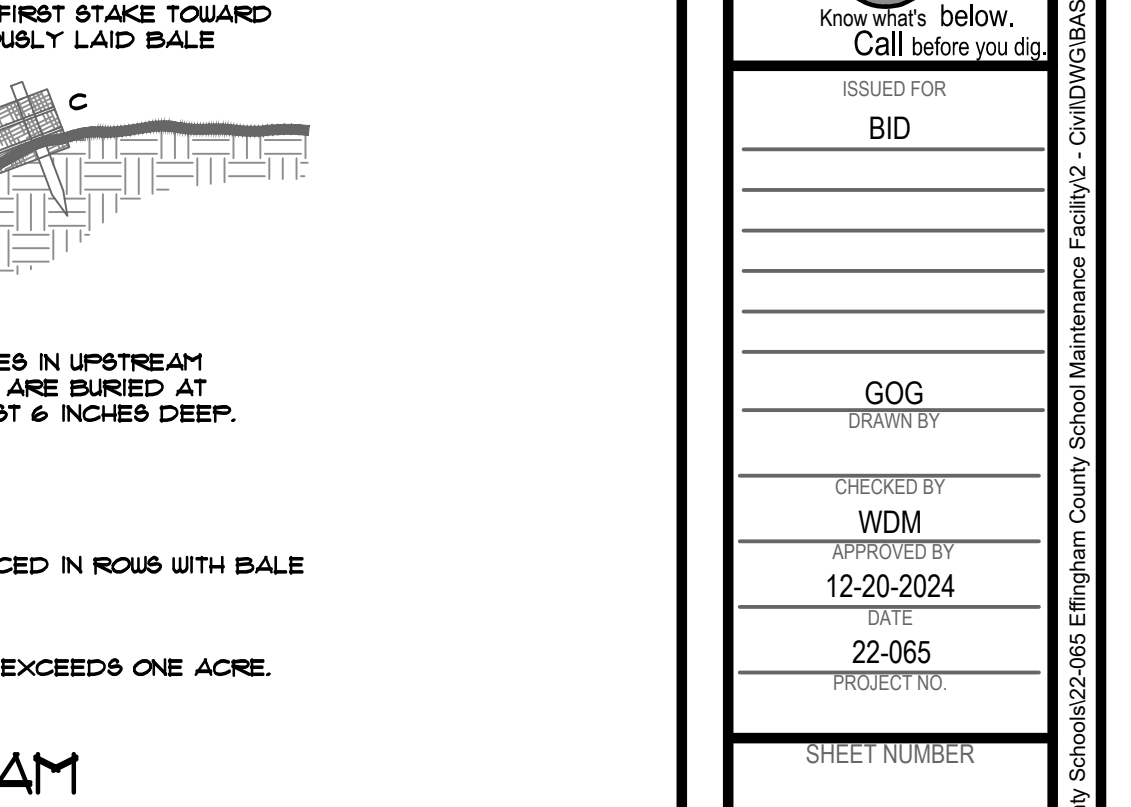
8d-TS TEMPORARY SEDIMENT TRAP
NOT TO SCALE



8d-F FABRIC FRAME INLET PROTECTION
NOT TO SCALE



8d-C RIP RAP OUTLET PROTECTION
NOT TO SCALE



8d-TS TEMPORARY SEDIMENT TRAP
NOT TO SCALE

