




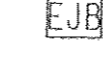


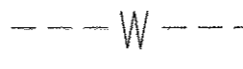



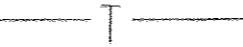
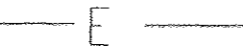
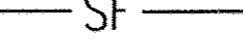

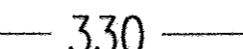


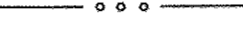
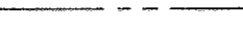
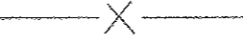
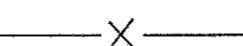




GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON JUNE, 2003 BY WHITMAN, REQUARDT AND ASSOCIATES, LLP.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS:
THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD'83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 24FA, NO. AE2448 AND A POINT ESTABLISHED BY NATIONAL GEODETIC SURVEY. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE 24" REBAR WITH 1" PLASTIC CAPS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM, OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF THE POLES AS SHOWN ON DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COSTS INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL  AT THE LOCATIONS OF THE PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS

AT&T	1-800-252-1133
BGE (CONSTRUCTION SERVICES)	410-850-4620
BGE (EMERGENCY)	410-685-1400
BUREAU OF UTILITIES	410-313-4900
VERIZON	1-800-743-0033/410-224-9210
COLONIAL PIPELINE CO.	410-795-1390
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 410-313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(A) OF THE HOWARD COUNTY CODE.

CIVIL/SITE LEGEND

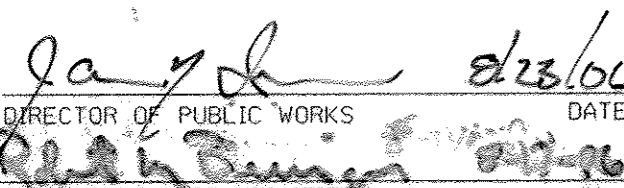


TRAVERSE STATION	
DECIDUOUS TREE (EX.)	
CONIFEROUS TREE	
FIRE HYDRANT (EX.)	
ELECTRIC JUNCTION BOX	
BOLLARDS (NEW)	
BOLLARDS (EX)	
UNDERGROUND WATER LINE (EX.)	
UNDERGROUND STORM/SANITARY LINE (EX.)	
UNDERGROUND STORM/SANITARY LINE (PROP.)	
UNDERGROUND GAS LINE (EX.)	
UNDERGROUND TELEPHONE LINE (EX.)	
UNDERGROUND ELECTRIC LINE (EX.)	
SILT FENCE	
LIMIT OF DISTURBANCE	
CONTOURS (EX.)	
CONTOURS (PROPOSED)	
BORING	
EXISTING ROADSIDE DITCH	
EXISTING PROPERTY LINE	
EXISTING FENCE	
PROPOSED FENCE	
PROPOSED BITUMINOUS ASPHALT PAVING	
EXISTING BITUMINOUS ASPHALT PAVING	

ABBREVIATIONS

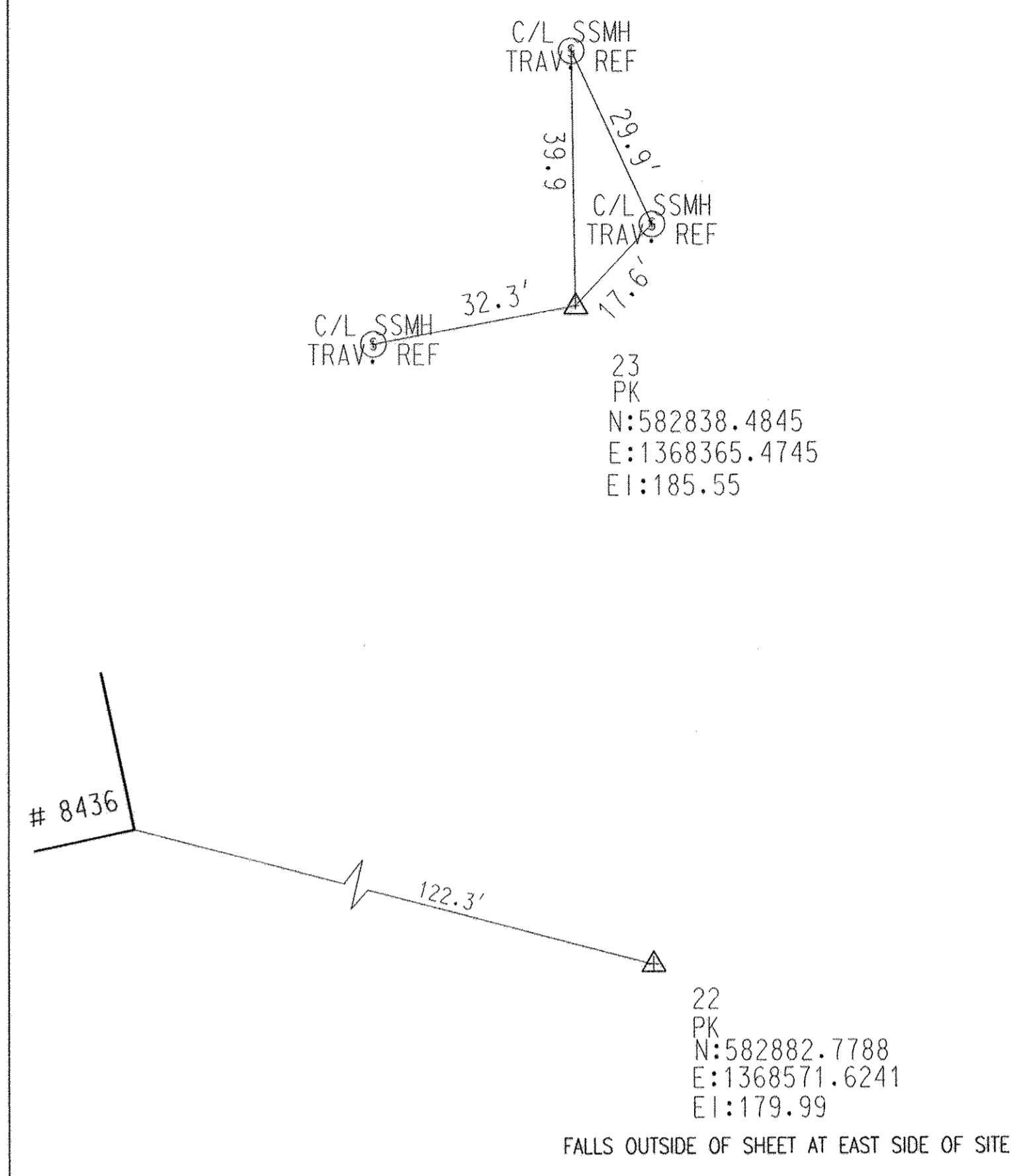
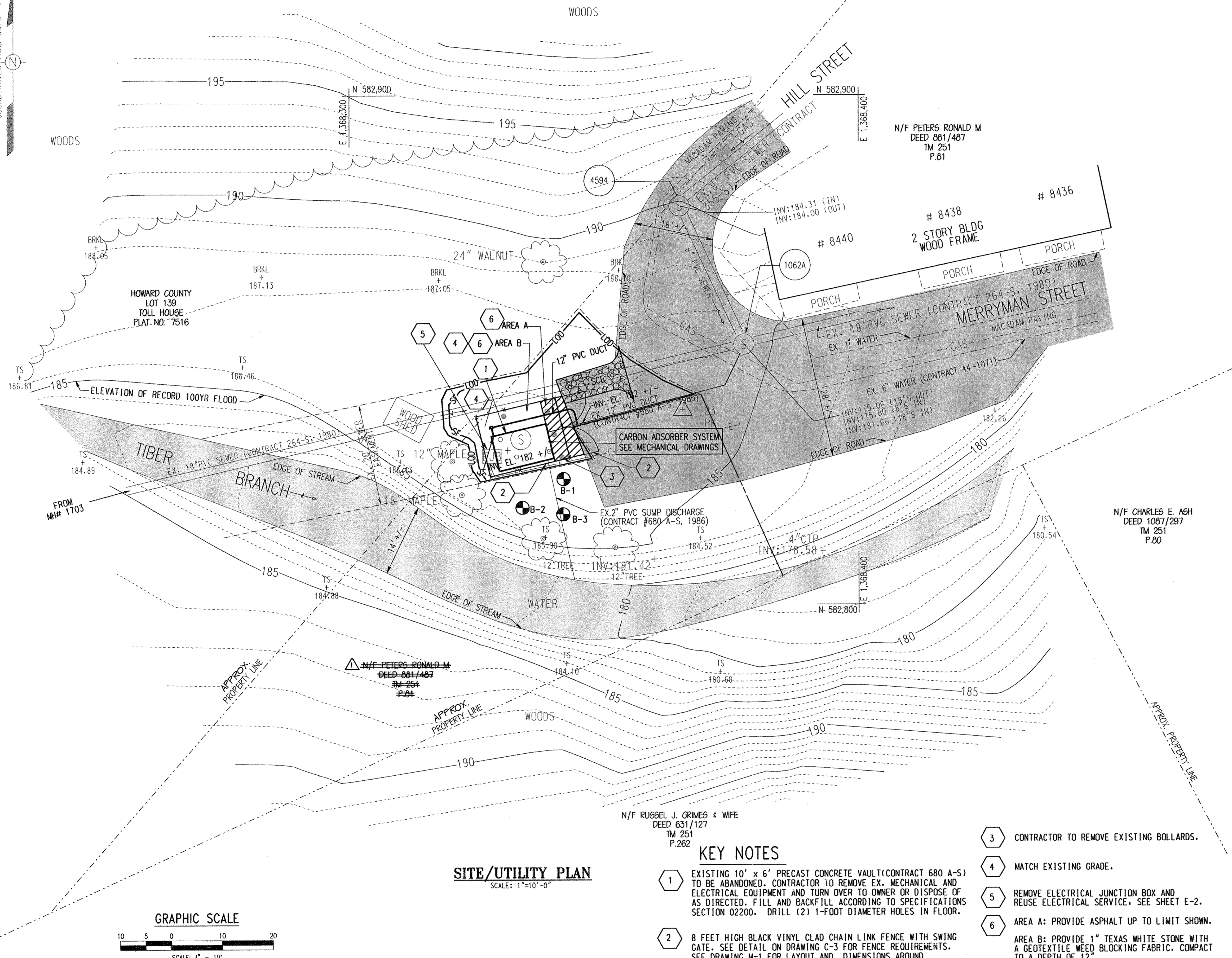
ACP	ASBESTOS CONCRETE PIPE
APPROX.	APPROXIMATE
CONTR.	CONTRACT
EL.	ELEVATION
EX.	EXISTING
O.C.	ON CENTER
RCP	REINFORCED CONCRETE PIPE
TYP.	TYPICAL
PK	P.K. NAIL
R/C	REBAR & CAP
PM	PARKING METER
MAC.	MACADAM
MG	MATCH EXISTING GRADE
SSD	SUB SURFACE DRAIN
FFE	FIRST FLOOR ELEVATION
MAC	MULTI - GRADE ASPHALT CEMENT
R	RADIUS
INV.	INVERT
WV	WATER VALVE
R/W	RIGHT OF WAY
PS	PUMP STATION
DIA	DIAMETER
CO	CLEAN-OUT
SS	STAINLESS STEEL
SW	SERVICE WATER

AS-BUILT 1/08

G-2

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 	PREPARED BY:  Whitman, Requardt and Associates, LLP. 801 SOUTH CAROLINE ST. Baltimore, Md. 21231 410-235-3450		DES: LLB DRN: EJM/LAP CHK: HWL DATE: 4/28/06	GENERAL NOTES, LEGEND AND ABBREVIATIONS	TIBER BRANCH/CATROCK RUN ODOR MITIGATION CONTRACT NO. 10-4201 CAPITAL PROJECT NO. S-6226 ELECTION DISTRICT 3 HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 2 OF 9
DIRECTOR OF PUBLIC WORKS CHIEF, BUREAU OF UTILITIES	CHIEF, BUREAU OF ENGINEERING CHIEF, UTILITY DESIGN DIVISION			600' SCALE MAP NO. 30 BLOCK NO. 9		

MARYLAND STATE PLANE
COORDINATES (NAD 83/91)



TRAVERSE & BENCH MARK INFORMATION

SCALE: 1" = 20'

FOR CIVIL LEGEND AND GENERAL NOTES SEE DWG. G-2
FOR CIVIL DETAILS SEE DWG. C-2 AND C-3
FOR CARBON ADSORBER PLANS AND DETAILS SEE DWG. M-1

NOTES

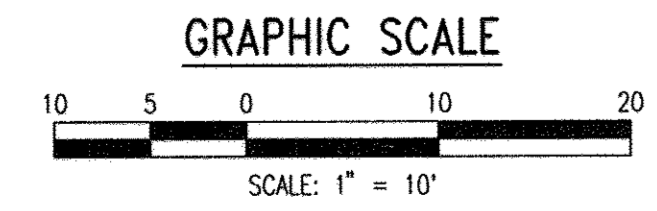
- 1 NOTE: 100 YEAR FLOOD ELEVATION: ZONE C. AREAS OF MINIMAL FLOODING. FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP HOWARD COUNTY, MARYLAND PANEL 240044, DEC. 4, 1986. 100 YEAR FLOOD OF RECORD 184.8'
- 2 FIELD LOCATE EX. SLAB AND ADJUST WORK TO SUIT EX. LOCATION.
- 3 IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
- 4 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STATE OCCUPATIONAL SAFETY LAWS.
- 5 CONTRACTOR IS TO PROTECT EXISTING PROPERTY MARKERS FROM BEING DISTURBED. IF A DISTURBANCE OCCURS, REPLACEMENT MUST BE DONE BY A LICENSED LAND SURVEYOR AT THE CONTRACTORS EXPENSE.
- 6 PROPERTY INFORMATION SHOWN HEREON HAS BEEN OBTAINED BY AVAILABLE RECORDS, RECORDED AND UNRECORDED, AND DOES NOT CONSTITUTE A FIELD BOUNDARY SURVEY.
- 7 RIGHT OF WAY IS DEFINED BY PROPERTY LINES.

SITE/UTILITY PLAN

SCALE: 1" = 10'-0"

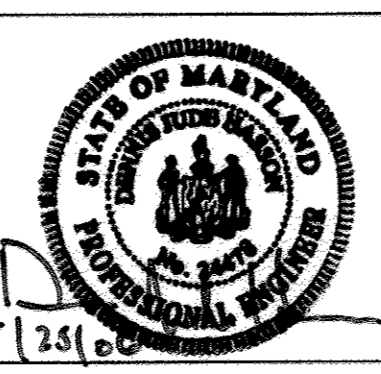
KEY NOTES

- 1 EXISTING 10' x 6' PRECAST CONCRETE VAULT (CONTRACT 680 A-S) TO BE ABANDONED. CONTRACTOR TO REMOVE EX. MECHANICAL AND ELECTRICAL EQUIPMENT AND TURN OVER TO OWNER OR DISPOSE OF AS DIRECTED. FILL AND BACKFILL ACCORDING TO SPECIFICATIONS SECTION 02200. DRILL (2) 1-FOOT DIAMETER HOLES IN FLOOR.
- 2 8 FEET HIGH BLACK VINYL CLAD CHAIN LINK FENCE WITH SWING GATE. SEE DETAIL ON DRAWING C-3 FOR FENCE REQUIREMENTS. SEE DRAWING M-1 FOR LAYOUT AND DIMENSIONS AROUND CONCRETE SLAB.
- 3 CONTRACTOR TO REMOVE EXISTING BOLLARDS.
- 4 MATCH EXISTING GRADE.
- 5 REMOVE ELECTRICAL JUNCTION BOX AND REUSE ELECTRICAL SERVICE. SEE SHEET E-2.
- 6 AREA A: PROVIDE ASPHALT UP TO LIMIT SHOWN.
AREA B: PROVIDE 1" TEXAS WHITE STONE WITH A GEOTEXTILE WEED BLOCKING FABRIC. COMPACT TO A DEPTH OF 12".



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

PREPARED BY:
WR&A
Whitman, Requardt and Associates, LLP.
801 SOUTH CAROLINE ST.
Baltimore, Md. 21231
410-235-3450



DES: LLB	DATE: 4/28/06
DRN: EJM/LAP	BY: NO.
CHK: HWL	REVISION
ACQUIRED FEE-SIMPLE, PLAT 0226-1 4109	

MERRYMAN LANE
CARBON ADSORBER SYSTEM:
SITE/UTILITY PLAN

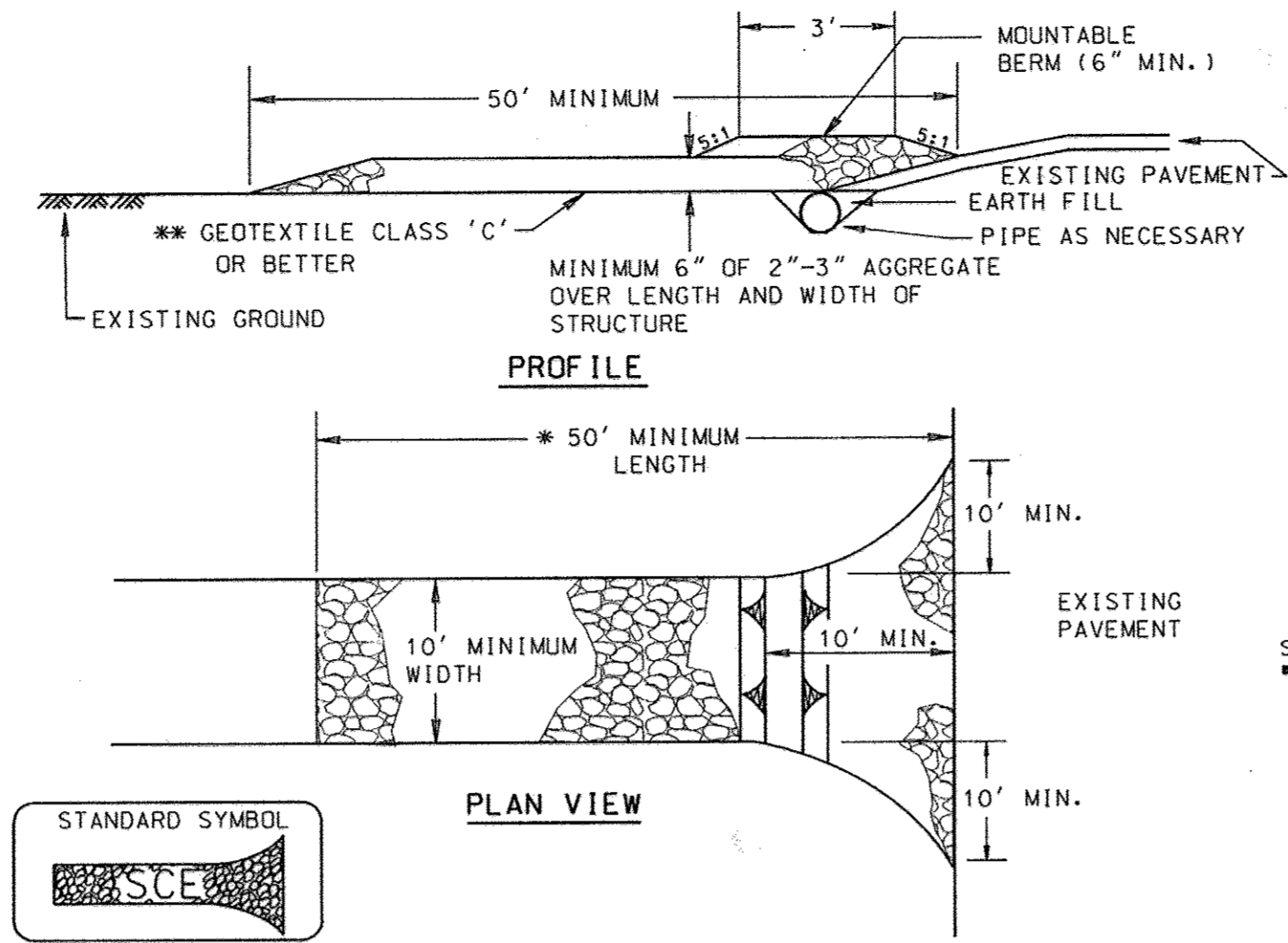
TIBER BRANCH/CATROCK RUN
ODOR MITIGATION
CONTRACT NO. 10-4201
CAPITAL PROJECT NO. S-6226

ELECTION DISTRICT 3
HOWARD COUNTY, MARYLAND

C-1
SCALE AS SHOWN
SHEET 3 OF 9

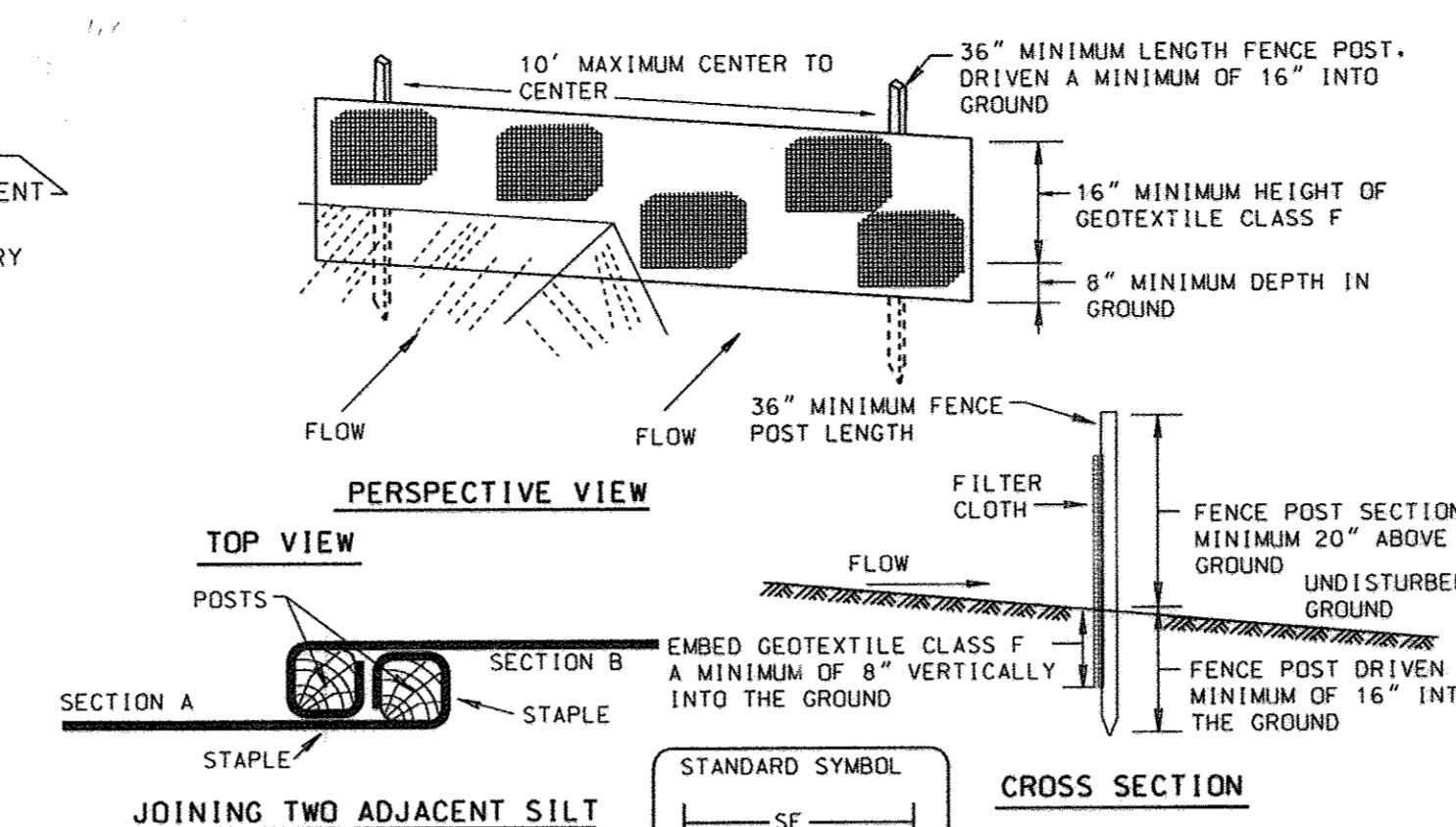
AS-BUILT 1/08

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



- Construction Specification**
- Length - minimum of 50' (#30' for single residence lot).
 - Width - 10' minimum, should be flared at the existing road to provide a turning radius.
 - Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
 - Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
 - Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
 - Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

DETAIL 22 - SILT FENCE



- Construction Specifications**
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 1/2" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per linear foot.
 - Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft ² /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
 - Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 - Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

Silt Fence Design Criteria

Slope Steepness	Silt Fence Length	
	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

DEFINITION
PLACEMENT OF TOP SOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE
TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITION WHERE PRACTICE APPLIES

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
 - THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

- TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
- TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
 - TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CLINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.
 - TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BURMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
 - WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (2000 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

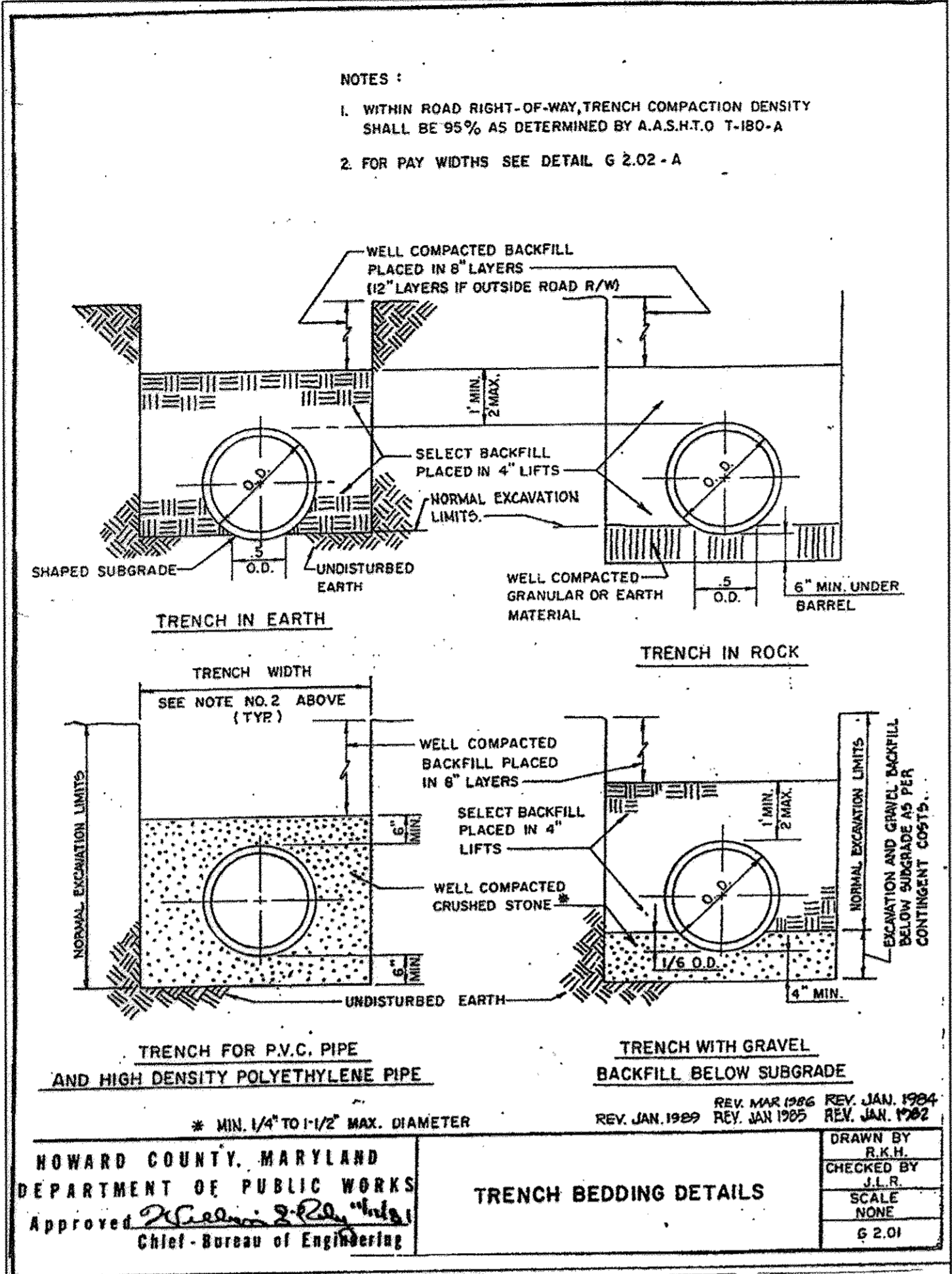
- FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
 - PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 2.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
 - ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
 - PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
 - ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
 - TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
 - NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL LIMESTONES OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

- PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 2.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- TOPSOIL APPLICATION
 - WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.
 - GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4" - 8" HIGHER IN ELEVATION.
 - TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" - 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
 - TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

- ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:
 - COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS THAT ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.04.06.
 - COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHORUS, AND 0.2 PERCENT POTASSIUM AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.
 - COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.
 - COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING, MD-VA, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES, REVISED 1973.



TRENCH BEDDING DETAILS

HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved: *[Signature]*
Chief - Bureau of Engineering

REV. JAN. 1989
DRAWN BY: R.L.H.
CHECKED BY: J.L.R.
SCALE: NONE
G 2.01

TRENCH WIDTHS FOR WATER MAIN AND STORM DRAIN CONSTRUCTION

PIPE DIAMETER	TRENCH WIDTH
6"-16"	36"
18"-21"	42"
24"	48"
27"-30"	54"
33"-36"	60"
42"	72"
48"	84"
54"	96"
60"	108"
66"	114"
72"	120"
78"	132"
84"	138"
90"	144"
102"	156"
108"	168"

- NOTES:**
- No additional payment width shall be established where sheeting or trench shields are utilized during construction. The above payment widths are standard for all site conditions.
 - Trench widths for pipe having a nominal inside diameter (or equal periphery for arch pipe) larger than 108 inches shall be specified in the Special Provisions, or detailed on the Contract Drawings.
 - Pipe diameters are referenced to nominal inside diameter.
 - Trench widths for arch pipe shall be the same as the nominal circular pipe diameter having equal periphery.

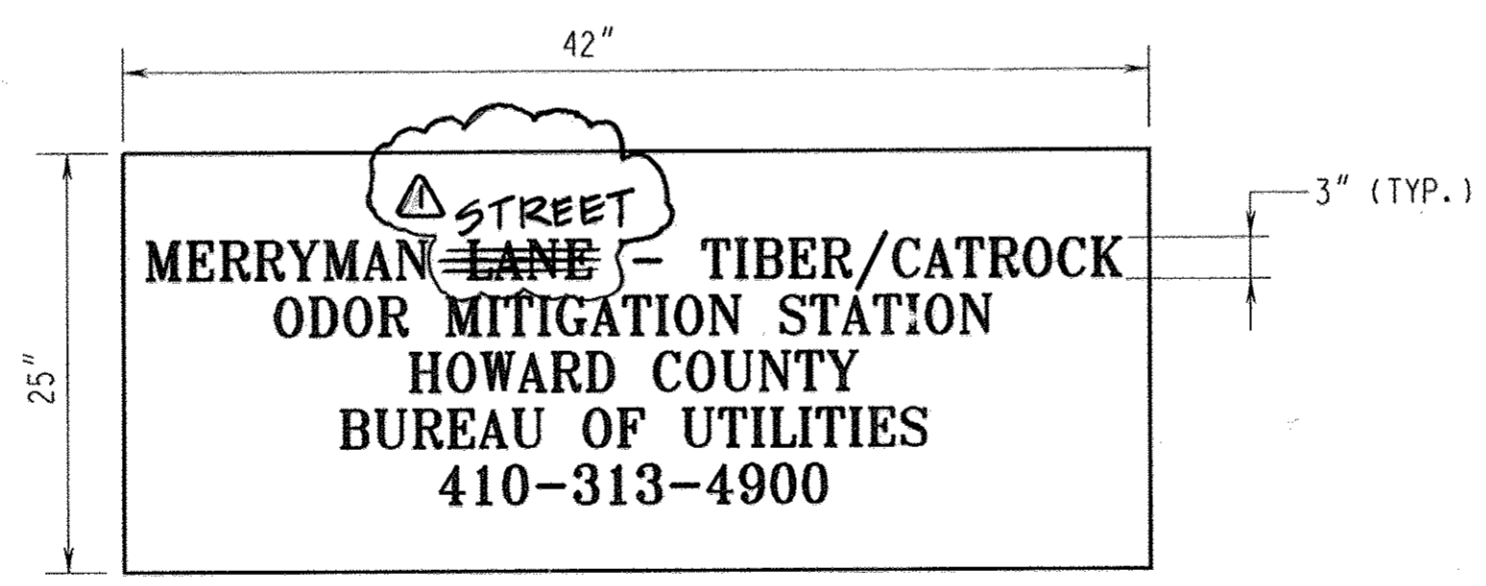
TRENCH PAYMENT WIDTHS FOR SEWER MAIN CONSTRUCTION

PIPE DIAMETER	TRENCH WIDTH
4"-30"	60"
33"-36"	66"
42"	72"
48"	78"

- NOTES:**
- No additional payment width shall be established where sheeting or trench shields are utilized during construction. The above payment widths are standard for all site conditions.
 - Trench widths for sewer mains larger than 48" Diameter shall be as specified in the Special Provisions, and/or detailed on the Contract Drawings.

REV. JAN. 1989
DRAWN BY: W.H.
CHECKED BY: W.H.
SCALE: NONE
G 2.02-A

HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved: *[Signature]*
Chief - Bureau of Engineering



FACILITY SIGN DETAIL
SCALE: NONE

NOTE: CONTRACTOR SHALL PROVIDE AND MOUNT SIGN ON THE FRONT ACCESS SWING GATE AT THE STATION ENTRANCE.

MATERIAL: 0.080-INCH THICK ALUMINUM SHEET METAL
FINISH: BAKED ENAMEL PAINT
COATINGS: POLYESTER BASED SPRAY

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

PREPARED BY: **WR&A**
Whitman, Reardon and Associates, LLP.
801 SOUTH CAROLINE ST.
Baltimore, Md. 21231
410-235-3450

DATE: 4/28/06

DATE: 8/10/06
DATE: 8-9-06

DES: LLB
DRN: EJM
CHK: HWL

DATE: 4/28/06

BY NO. **AS-BUILT 1/08**

REVISION

MISCELLANEOUS DETAILS

600' SCALE MAP NO. 30 BLOCK NO. 9

TIBER BRANCH/CATROCK RUN
ODOR MITIGATION
CONTRACT NO. 10-4201
CAPITAL PROJECT NO. S-6226

ELECTION DISTRICT 3
HOWARD COUNTY, MARYLAND

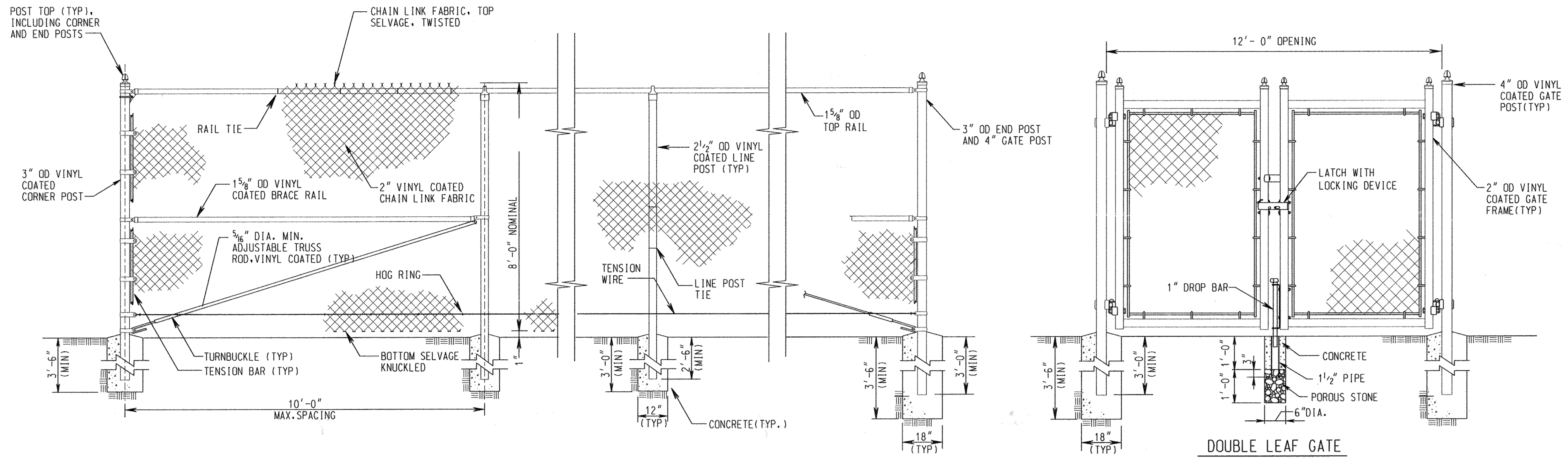
AS-BUILT 1/08

C-2

SCALE AS SHOWN

SHEET 4 OF 9

BID DOCUMENTS MAY 2006



DETAIL - 8'-0" VINYL COATED CHAIN LINK FENCE AND GATES

SCALE : NONE

AS-BUILT 1/08

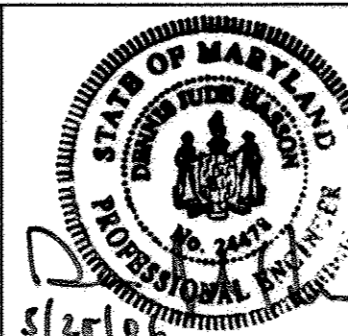
C-3

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

PREPARED BY :



Whitman, Reardon and Associates, LLP.
801 SOUTH CAROLINE ST.
Baltimore, Md. 21231
410-235-3450



DES: LLB

DRN: EJM/LAP

CHK: HWL

DATE: 4/28/06

FENCE DETAIL

TIBER BRANCH/CATROCK RUN
ODOR MITIGATION
CONTRACT NO. 10-4201
CAPITAL PROJECT NO. S-6226

ELECTION DISTRICT 3

HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
5 OF 9

STRUCTURAL NOTES

GENERAL NOTES:

- FIELD VERIFY ALL DIMENSIONS, LOCATIONS AND ELEVATIONS SHOWN ON CONTRACT DRAWINGS FOR EXISTING STRUCTURES. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- THE SIZES AND LOCATIONS OF EQUIPMENT PADS AND PEDESTALS, AS WELL AS EQUIPMENT-RELATED FLOOR AND WALL OPENINGS, ARE DEPENDENT ON THE ACTUAL EQUIPMENT FURNISHED. VERIFY AND COORDINATE ALL SUCH ITEMS. DIMENSIONS INDICATED ON THESE DRAWINGS SHALL NOT BE ALTERED WITHOUT APPROVAL OF THE ENGINEER. STRUCTURAL DRAWINGS MAY NOT SHOW ALL EQUIPMENT PADS AND OTHER EQUIPMENT SUPPORTS REQUIRED. REFER TO CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS.
- LOCATIONS OF BORINGS ARE SHOWN ON CIVIL DRAWINGS. BORING LOGS ARE INCLUDED IN SPECIFICATIONS.

CONCRETE NOTES:

- PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- DETAIL AND CONSTRUCT REINFORCED CONCRETE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE."
- DETAIL REINFORCING STEEL IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," AND ACI SP-66, "ACI DETAILING MANUAL."
- PROVIDE REINFORCEMENT CONFORMING TO ASTM A 615, GRADE 60, DEFORMED BARS..
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE CONCRETE COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:
 - BOTTOM BARS IN FOOTINGS AND IN SLABS ON EARTH OR GRAVEL: 3".
 - SLABS EXPOSED TO GROUND AND WEATHER AFTER REMOVAL OF FORMS: 2".
- SUBMIT REINFORCING STEEL DETAILS (SHOP DRAWINGS) AND RECEIVE APPROVAL BEFORE PROCEEDING WITH FABRICATION.
- CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.
- DETAIL ALL SPLICES FOR REINFORCING BARS NOT DIMENSIONED ON THE DRAWINGS AS TABULATED ON THIS DRAWING.
- SIZE AND LOCATE ANCHOR BOLTS AND EQUIPMENT PADS OR PEDESTALS TO SUIT EQUIPMENT FURNISHED.
- REVIEW ALL DRAWINGS FROM OTHER DISCIPLINES AND COORDINATE ALL OPENINGS AND EMBEDDED ITEMS SUCH AS SLEEVES, ANCHORS, CONDUIT, ETC. THAT WILL BE INCORPORATED INTO CONCRETE WORK.

FOUNDATION NOTES:

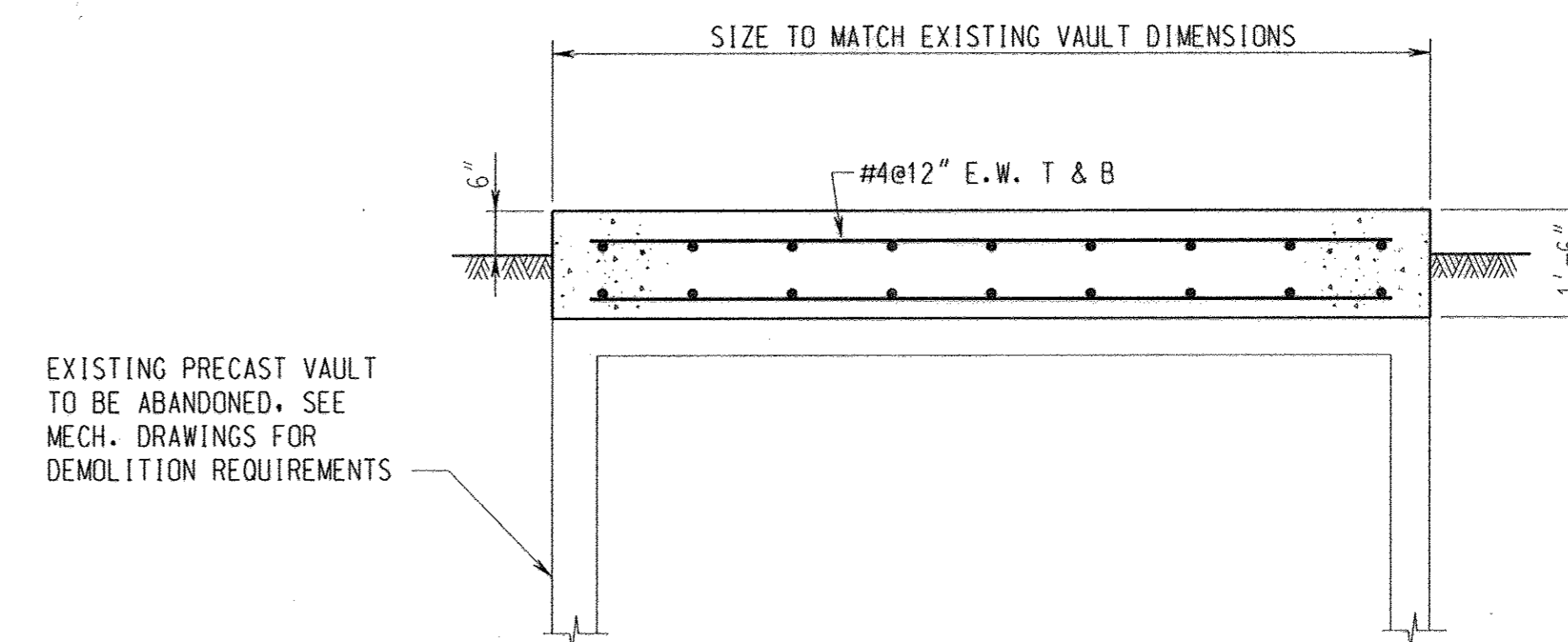
- DESIGN BEARING PRESSURE SHALL BE 250PSF.
- KEEP ALL EXCAVATIONS DRY. STANDING WATER WILL NOT BE ALLOWED IN EXCAVATIONS. PLACE A 6" LAYER OF COMPACTED DENSE GRADED AGGREGATE UNDER ALL SLABS ON GRADE. ALL EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE PLACING ANY CONCRETE OR POROUS FILL.
- FOR MECHANICAL AND ELECTRICAL WORK TO BE INCORPORATED IN FOUNDATION WORK, SEE MECHANICAL AND ELECTRICAL DRAWINGS.
- FILL ALL EXCESS EXCAVATION BELOW THE ELEVATION OF THE CONCRETE AS SPECIFIED.

CODES AND STANDARDS:

- INTERNATIONAL BUILDING CODE IBC (2000) INCLUDING THE MODIFICATIONS MADE BY LOCAL JURISDICTION.
- AMERICAN CONCRETE INSTITUTE ACI-318 (2002), "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."

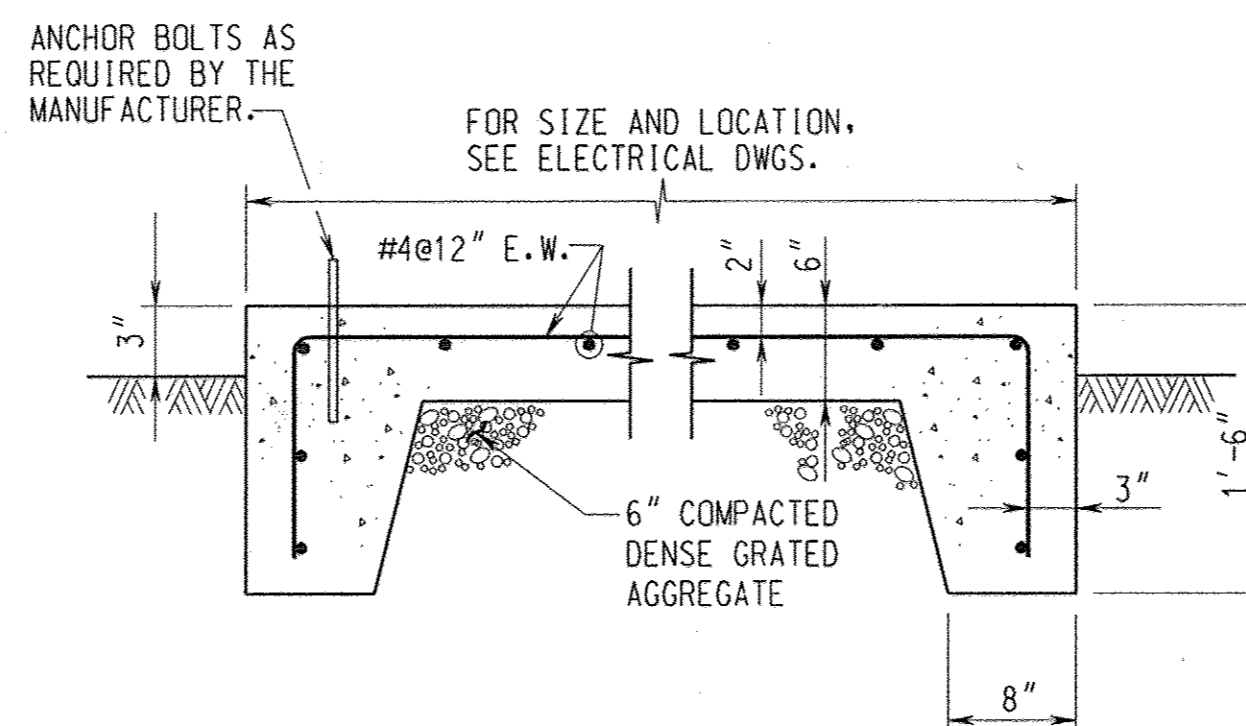
DESIGN LOADS:

- DEAD LOADS:
 - STRUCTURES - ACTUAL WEIGHT
 - WEIGHT OF SOIL - 120 PCF FOR DEAD LOAD
- LIVE LOADS:
 - FLOORS - 150 PSF IN AREAS NOT OCCUPIED BY EQUIPMENT OR TRUCK LOADING.
 - EQUIPMENT - ACTUAL WEIGHT OF EQUIPMENT OR MINIMUM 150 PSF.



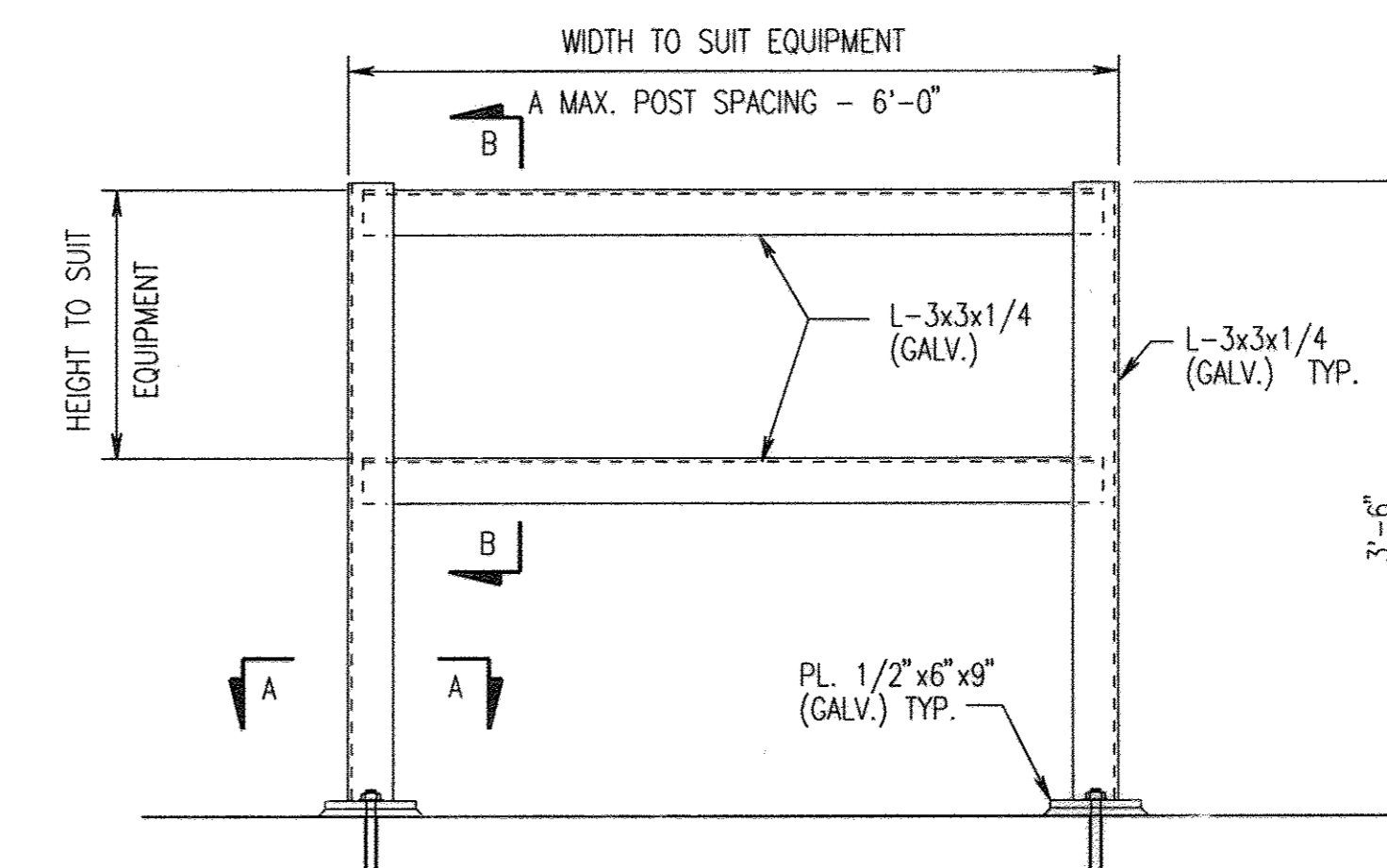
CARBON ABSORBER EQUIPMENT PAD

SCALE: NONE



TYPICAL EXTERIOR EQUIPMENT PAD DETAIL

SCALE: NONE

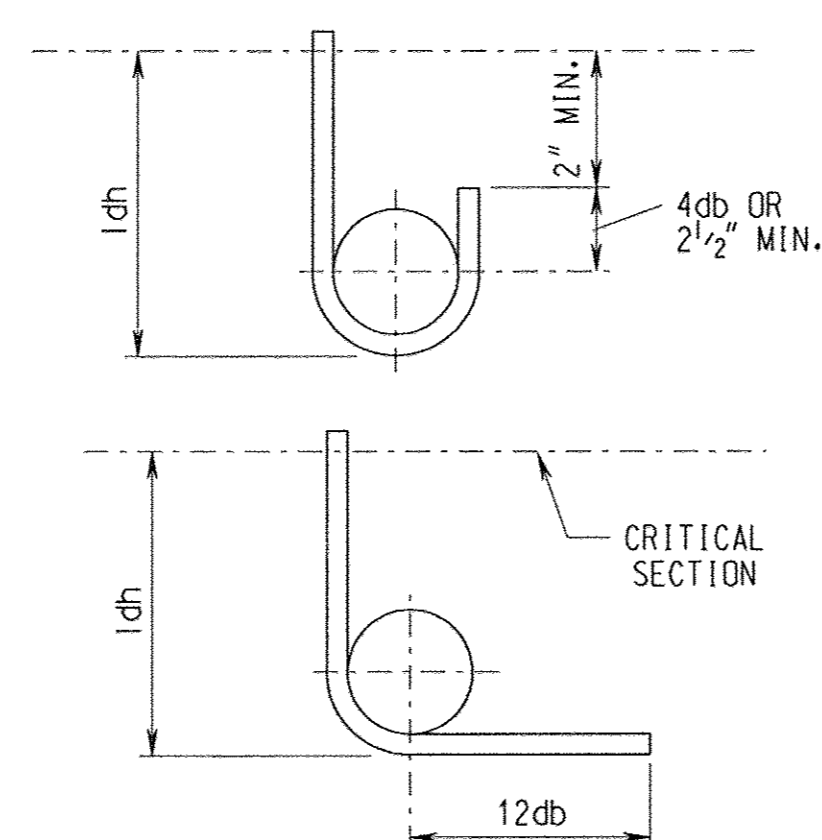


ELEVATION

LAP SPLICE LENGTH						MINIMUM TENSION EMBEDMENTS				
BAR SIZE	SLAB AND WALL			BEAM		STANDARD 90° HOOK		STANDARD 180° HOOK		
	SOFT METRIC	ENGLISH	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	ldh	12db	ldh	4db
#10	#3	12"	16"	13"	18"	18"	6"	5"	6"	2 1/2"
#13	#4	15"	20"	22"	28"	28"	7"	6"	7"	2 1/2"
#16	#5	19"	24"	32"	41"	41"	9"	8"	9"	3"
#19	#6	23"	30"	40"	52"	52"	10"	9"	10"	3"
#22	#7	37"	48"	59"	76"	76"	12"	11"	12"	4"
#25	#8	48"	60"	68"	89"	89"	14"	12"	14"	4"
#29	#9	58"	74"	77"	101"	101"	15"	14"	15"	5"
#32	#10	70"	91"	88"	114"	114"	17"	16"	17"	5"
#36	#11	83"	108"	98"	128"	128"	19"	17"	19"	6"

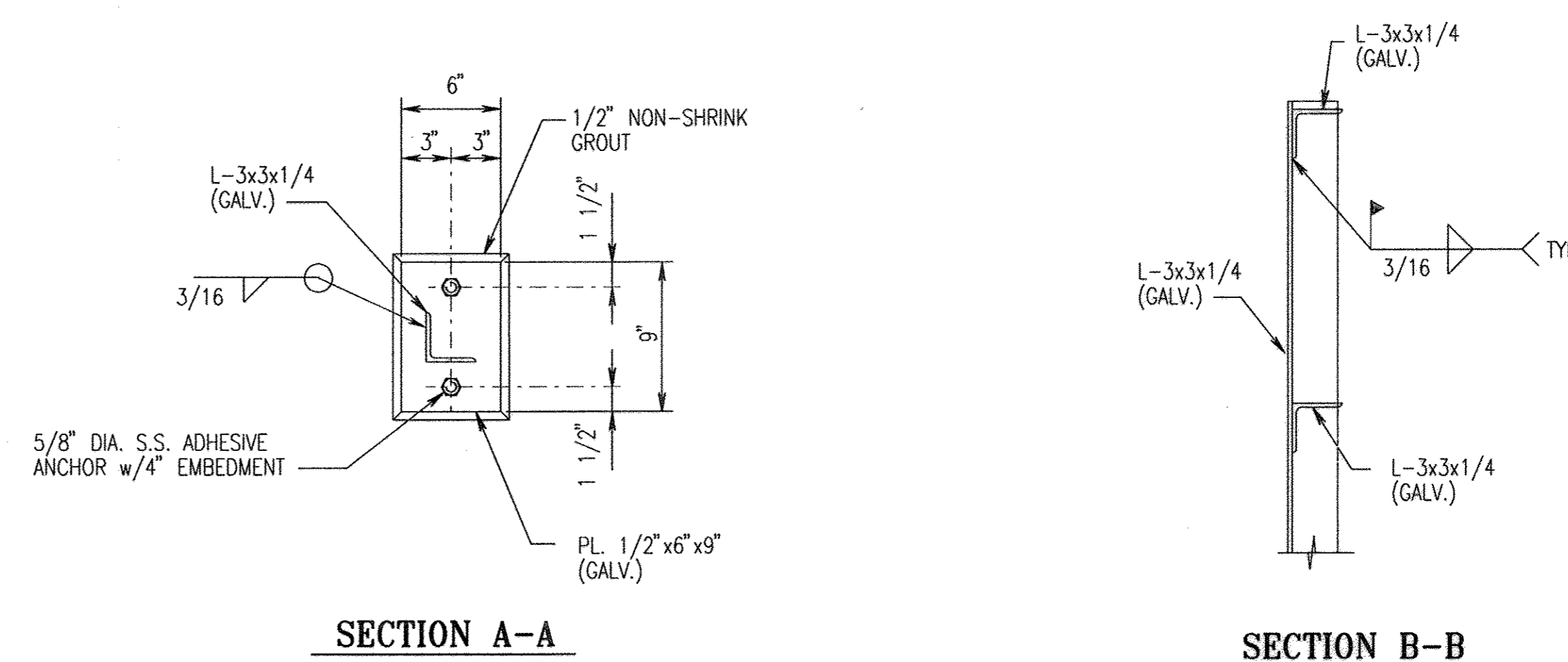
SLAB AND WALL: 6" MINIMUM REBAR SPACING WITH CONCRETE COVER = 1.5" CLEAR
 BEAM: MINIMUM CLEAR SPACING BETWEEN BARS = 1.5 (BAR DIAMETER)
 MINIMUM CONCRETE COVER = 1.5" CLEAR
 MINIMUM STIRRUP PROVIDED #4@12"

TOP BAR: TOP BAR FOR SLAB AND BEAM SHALL BE DEFINED AS REINFORCEMENT SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST BELOW THE SPLICE.



STANDARD HOOKS: SIDE COVER MORE THAN 2.5"
 END COVER (90° HOOK) MORE THAN 2"
 MINIMUM COVER TO TAIL = 2"

STANDARD 180° AND 90° END HOOKS



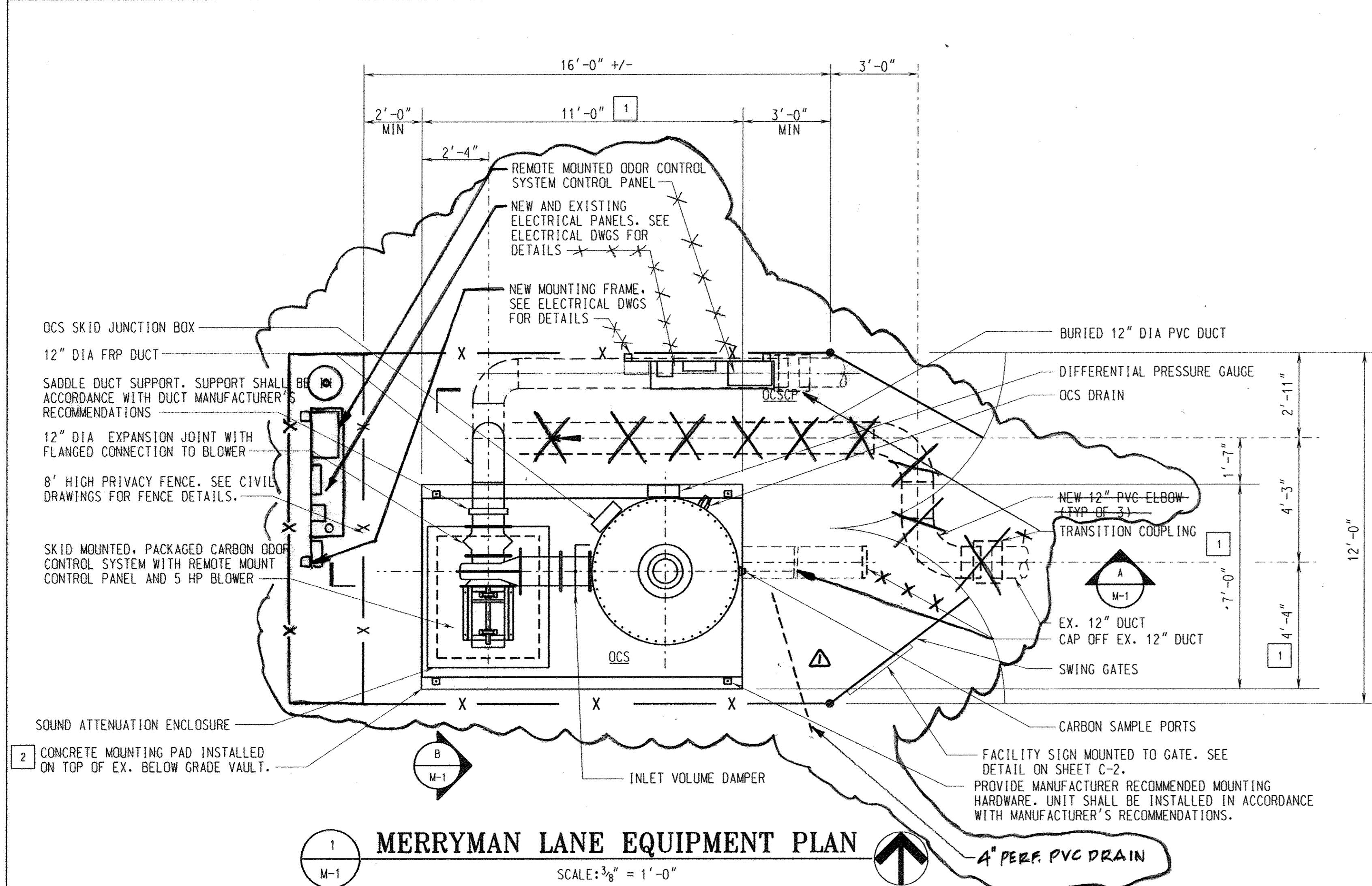
FRAMING SUPPORT DETAIL

SCALE: NONE

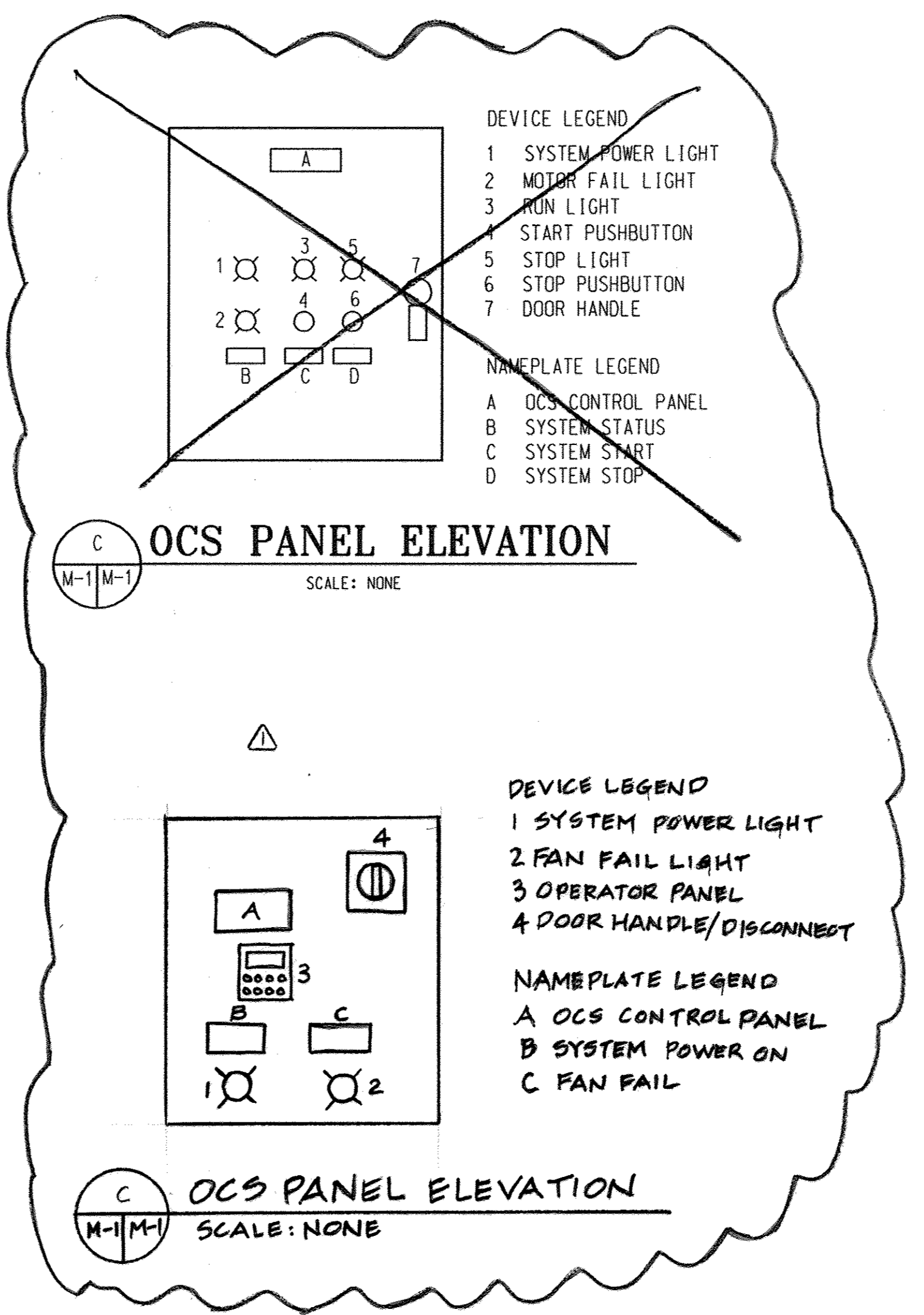
TENSION LAP SPLICE AND STANDARD HOOK LENGTH (ACI 318-02)

(NON-EPOXY COATED)

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>[Signature]</i> Chief, Bureau of Engineering: <i>[Signature]</i> Chief, Bureau of Utilities: <i>[Signature]</i>	PREPARED BY: WR&A Whitman, Reardon and Associates, LLP. 801 SOUTH CAROLINE ST. Baltimore, Md. 21231 410-235-3450		DES: JRC DRN: LAR CHK: JOA DATE: 4/28/06	STRUCTURAL GENERAL NOTES AND DETAILS	TIBER BRANCH/CATROCK RUN ODOR MITIGATION CONTRACT NO. 10-4201 CAPITAL PROJECT NO. S-6226 ELECTION DISTRICT 3 HOWARD COUNTY, MARYLAND	AS-BUILT 1/08 S-1 SCALE AS SHOWN SHEET 6 OF 9
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MERRYMAN LANE EQUIPMENT PLAN
SCALE: 3/8" = 1'-0"



OCS PANEL ELEVATION
SCALE: NONE

OCS PANEL ELEVATION
SCALE: NONE

CONSTRUCTION NOTES

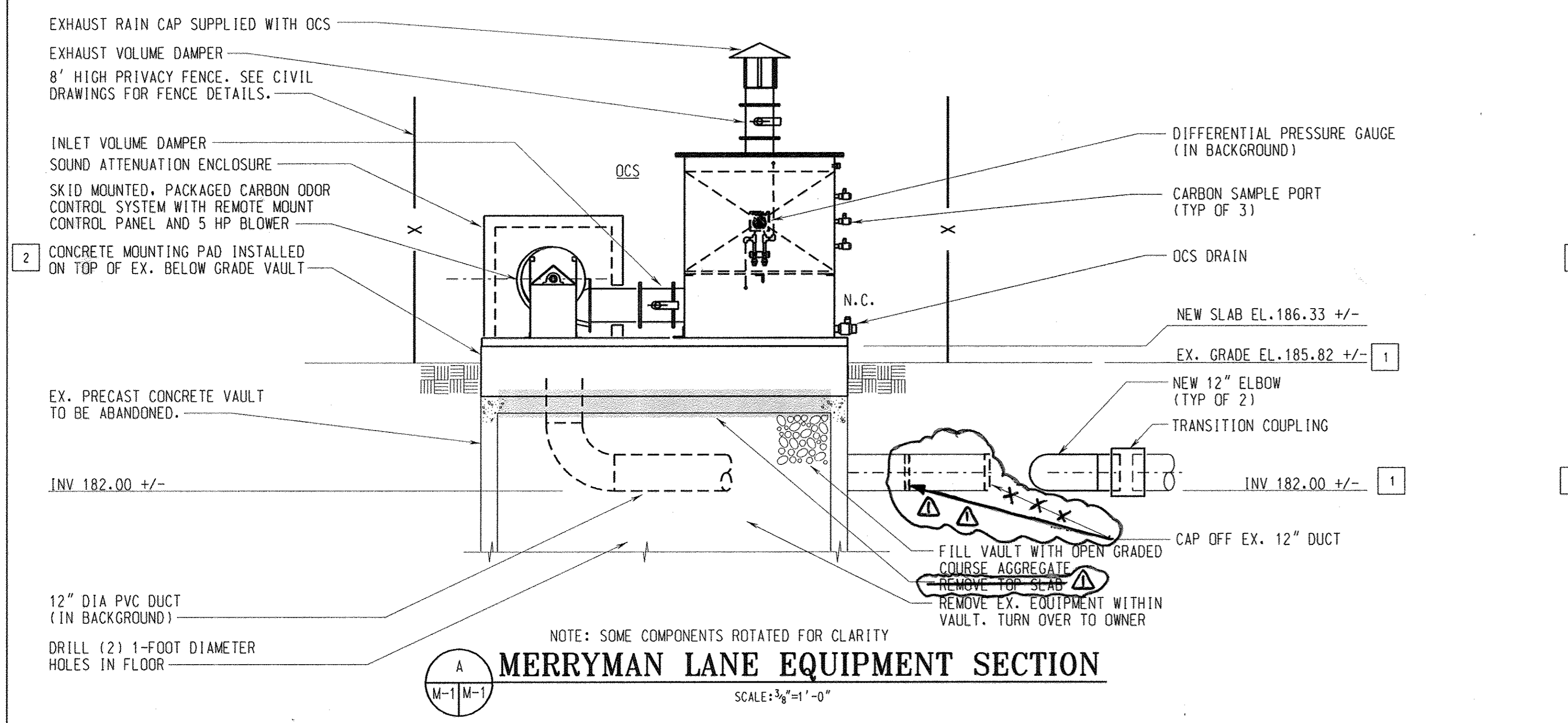
- 1 NOTED DIMENSIONS OR ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- 2 CONCRETE PAD SHALL MATCH IN NOMINAL SIZE TO THE EX. BURIED CONCRETE VAULT. CONTRACTOR SHALL FIELD COORDINATE. SEE STRUCTURAL DWGS FOR PAD DETAILS.
- 3 DUCT ELEVATION NOTED VARIES WITH MOUNTING PAD ELEVATION AND ASSOCIATED FAN HEIGHT. CONTRACTOR SHALL COORDINATE.

LEGEND

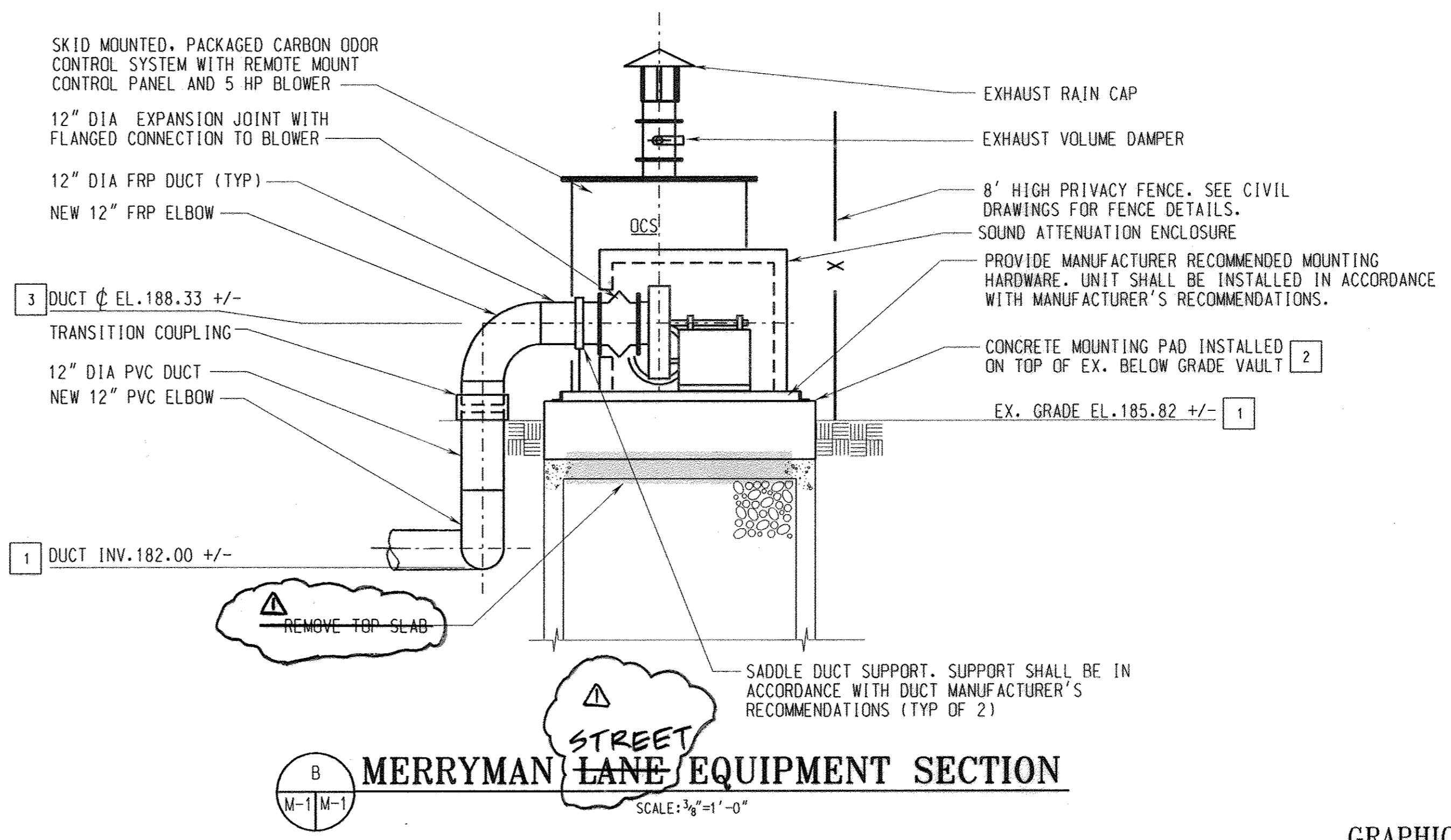
- NEW
- EXISTING

ABBREVIATIONS

- DWGS DRAWINGS
- EX. EXISTING
- HP HORSEPOWER
- INV INVERT
- OCS ODOR CONTROL SYSTEM
- OCS CP ODOR CONTROL SYSTEM CONTROL PANEL
- TYP. TYPICAL

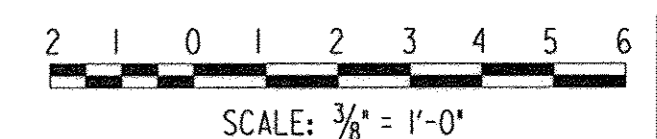


MERRYMAN LANE EQUIPMENT SECTION
SCALE: 3/8" = 1'-0"



MERRYMAN LANE EQUIPMENT SECTION
SCALE: 3/8" = 1'-0"

GRAPHIC SCALE

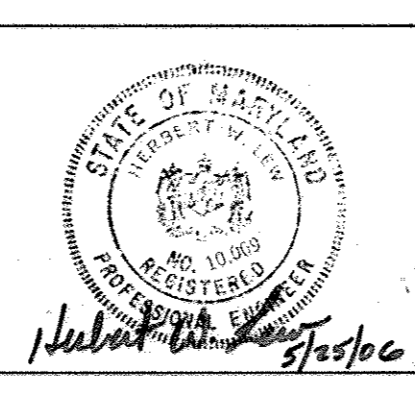


DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DATE: 8/23/06
DATE: 8-12-06

CHIEF, BUREAU OF ENGINEERING
CHIEF, BUREAU OF UTILITIES

PREPARED BY:
WR&A
Whitman, Reardon and Associates, LLP.
801 SOUTH CAROLINE ST.
Baltimore, Md. 21231
410-235-3450



DES:	LAP			
DRN:	LAP			
CHK:	HWL			
DATE:	4/28/06			
BY:		NO.		REVISION
				AS-BUILT 1/08

REMOTE CARBON SYSTEM PLAN AND SECTION

DATE: 6/00' SCALE MAP NO. 30 BLOCK NO. 9

TIBER BRANCH/CATROCK RUN
ODOR MITIGATION
CONTRACT NO. 10-4201
CAPITAL PROJECT NO. S-6226

ELECTION DISTRICT 3 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 7 OF 9

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Thu May 25 14:23:37 2006

LEGEND

- BUILDING LUMINAIRES
- FLUORESCENT LIGHTING FIXTURE.
- FLUORESCENT EMERGENCY AND/OR NIGHT LIGHTING FIXTURE
- HIGH INTENSITY DISCHARGE LIGHTING FIXTURE.
- LIGHTING FIXTURE TYPE.
- EMERGENCY BATTERY POWERED LIGHTING UNIT.
- DUPLEX CONVENIENCE RECEPTACLE. 20A, 125VAC. MOUNT 18" AFF WP INDICATES WEATHERPROOF.
- DUPLEX CONVENIENCE RECEPTACLE WITH INTERNAL GROUND FAULT PROTECTION. 20A, 125VAC. MOUNT 18" AFF.
- DUPLEX CONVENIENCE RECEPTACLE 20A, 125VAC. MOUNT 18" AFF ON WALL OR ON FLOOR MOUNTED CHANNELS.
- S** SINGLE POLE SWITCH. 20A, 120/277V.
- S₂** DOUBLE POLE SWITCH. 20A, 120/277V.
- SM** MANUAL MOTOR STARTER SWITCH WITH OVERLOADS AS REQUIRED.
- Sp** SWITCH WITH PILOT LIGHT.
- (E)** EQUIPMENT CONNECTION AS NOTED.
- (J)** JUNCTION BOX.
- (M)** MOTOR CONNECTION, HORSEPOWER INDICATED.
- PLUG AND CORD (SUPPLIED BY DIV. 11)
- (M)** MAGNETIC MOTOR CONTROLLER.
- 3P 60/40** DISCONNECT SWITCH. IN NEMA 4X ENCLOSURE UON. 3P = NO. OF POLES, 60 = SWITCH RATING, 40 = FUSE RATING (NF INDICATES NON-FUSIBLE).
- 3P 60/40** COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH. IN NEMA 4X ENCLOSURE UON. 3P = NO. OF POLES, 60 = SWITCH RATING, 40 = FUSE RATING (NF INDICATES NON-FUSIBLE).
- (MOD)** MOTOR OPERATED DAMPER
- ELECTRICAL PANELBOARD (208Y/120 VOLT)
- ELECTRICAL PANELBOARD (480Y/277 VOLT)
- BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT. NO TICK MARKS INDICATE 2#12 CONDUCTORS & 1#12 GND. IN 3/4" CONDUIT UON. TICK MARKS, WHEN SHOWN, INDICATES GROUND.
- HOMERUNS TO PANEL. PANEL AND CIRCUIT DESIGNATIONS AS INDICATED.
- INDICATES A CONDUIT RUN CONCEALED IN CEILING, WALL, FLOOR, OR ABOVE SUSPENDED CEILING UON.
- CONDUIT EXPOSED
- CONDUIT TURNED UP.
- CONDUIT TURNED DOWN.
- (A)** TELEPHONE/DATA OUTLET MOUNT ON WALL 18" AFF/OR ON INTERCOM OUTLET FLOOR MOUNTED CHANNELS.
- (A)** TELEPHONE OUTLET. MOUNT ON WALL 18" AFF.
- (EPO)** EMERGENCY POWER-OFF SWITCH
- (P)** PUSH BUTTON.
- (T)** DRY TYPE TRANSFORMER.

ABBREVIATIONS

- A AMPERE
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHU AIR HANDLING UNIT
- AWG AMERICAN WIRE GAUGE
- C CONDUIT
- CB CIRCUIT BREAKER
- CKT CIRCUIT
- EF EXHAUST FAN
- EQUIP EQUIPMENT
- ETR EXISTING TO REMAIN
- EXIST EXISTING
- EXP INDICATES EXPLOSION PROOF EQUIPMENT
- GFCI GOVERNMENT FURNISHED CONTRACTOR INSTALLED
- GFGI GOVERNMENT FURNISHED GOVERNMENT INSTALLED
- GFI GROUND FAULT INTERRUPTER
- GND GROUND
- HID HIGH INTENSITY DISCHARGE
- HP HORSEPOWER
- MCB MAIN CIRCUIT BREAKER
- MH MANHOLE
- MLO MAIN LUGS ONLY
- M/M MULTI-MODE
- MT MOUNT
- MTG HT MOUNTING HEIGHT
- NIC NOT IN CONTRACT
- NTS NOT TO SCALE
- PH PHASE
- PNL PANEL
- PNLBD PANELBOARD
- RECEPT RECEPTACLE
- REQ'D REQUIRED
- RM ROOM
- TYP TYPICAL
- UH UNIT HEATER
- XFMR TRANSFORMER
- UG UNDERGROUND
- UON UNLESS OTHERWISE NOTED
- V VOLT
- W WIRE
- WP WEATHERPROOF

AS-BUILT 1/08

E-1

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

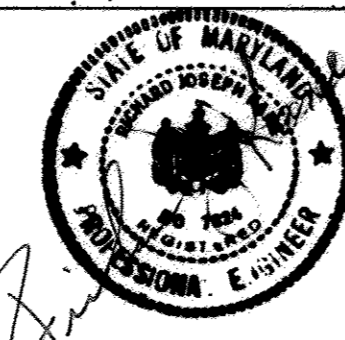
Carroll 8/23/06
DIRECTOR OF PUBLIC WORKS DATE

Paul J. Ryan 8/23/06
CHIEF, BUREAU OF ENGINEERING DATE

Robert Berman 8-17-06
CHIEF, BUREAU OF UTILITIES DATE

Paul J. Ryan 8-9-06
CHIEF, UTILITY DESIGN DIVISION DATE

PREPARED BY:
WR&A
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801 SOUTH CAROLINE ST.
Baltimore, Md. 21231
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DES: JVL			
DRN: AGT			
CHK: AP			
DATE: 4/28/06			

ELECTRICAL
LEGEND AND ABBREVIATIONS

TIBER BRANCH/CATROCK RUN
ODOR MITIGATION
CONTRACT NO. 10-4201
CAPITAL PROJECT NO. S-6226

ELECTION DISTRICT 3 HOWARD COUNTY, MARYLAND

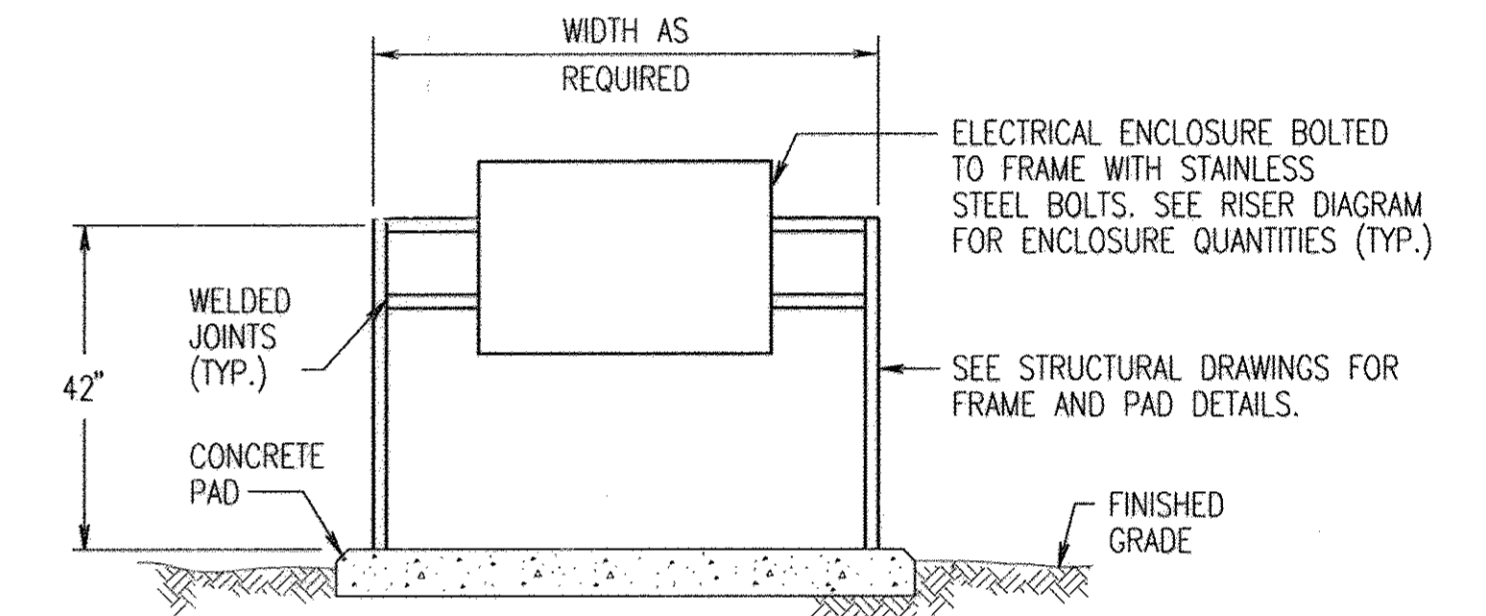
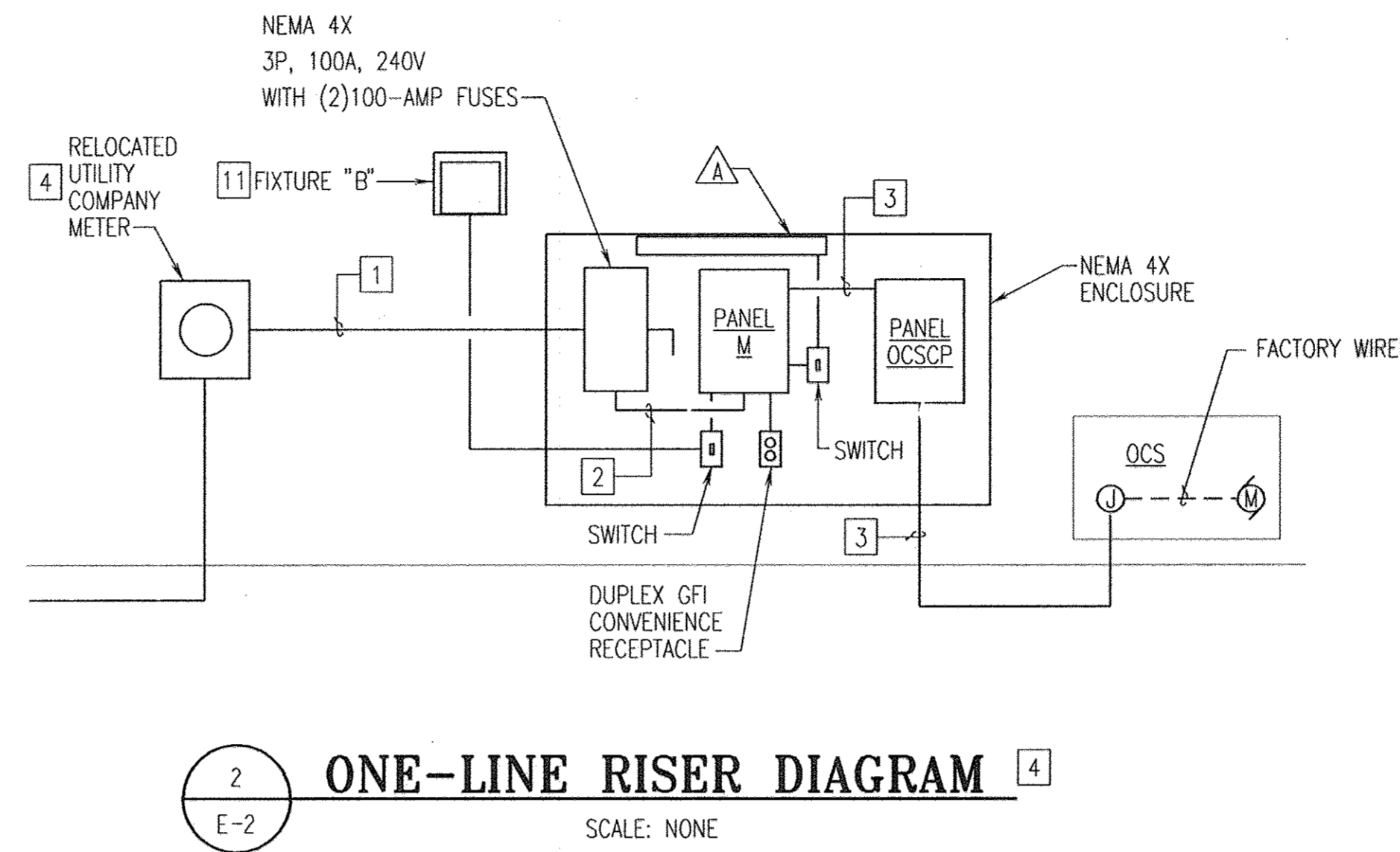
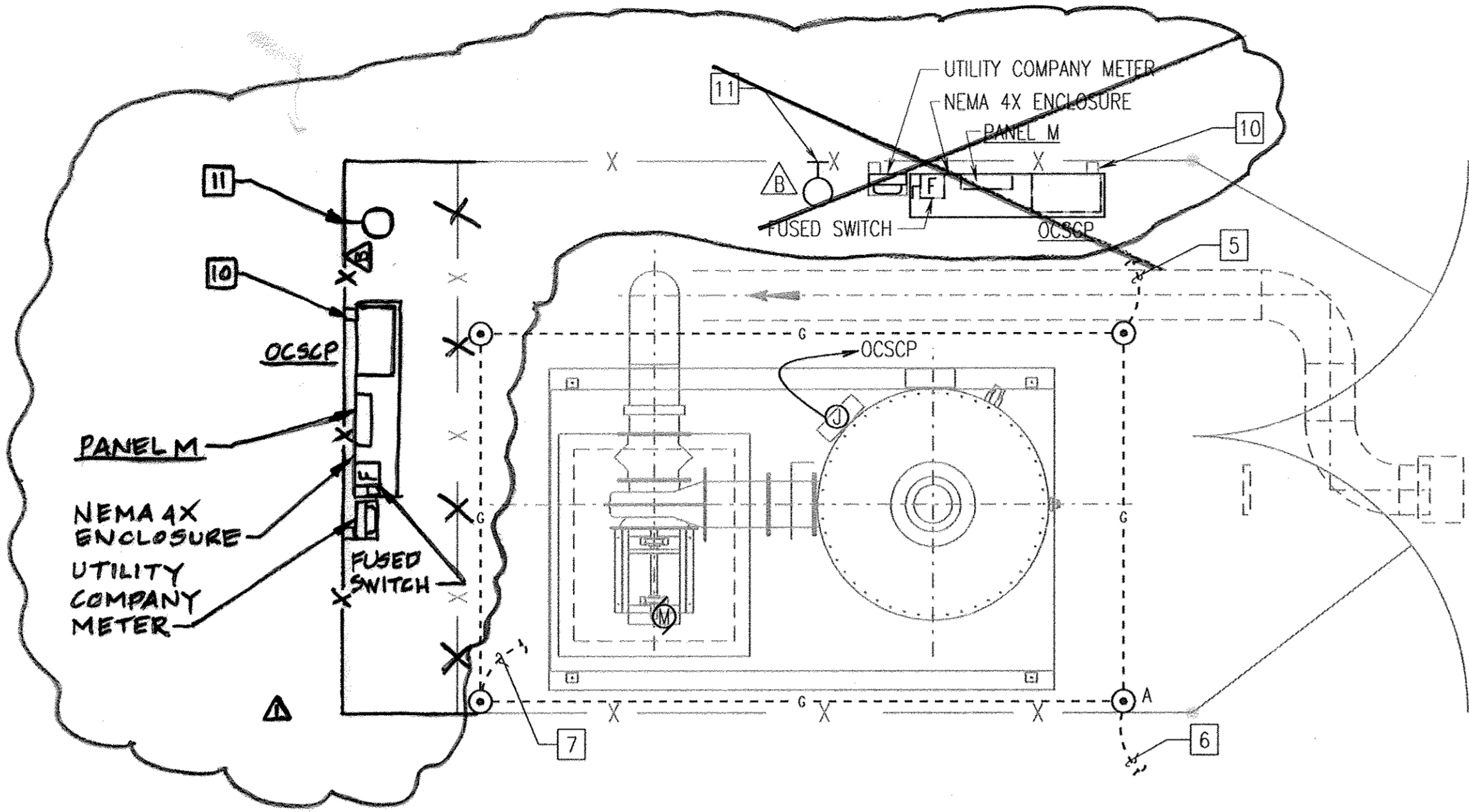
SCALE AS SHOWN
SHEET 8 OF 9

CONSTRUCTION NOTES

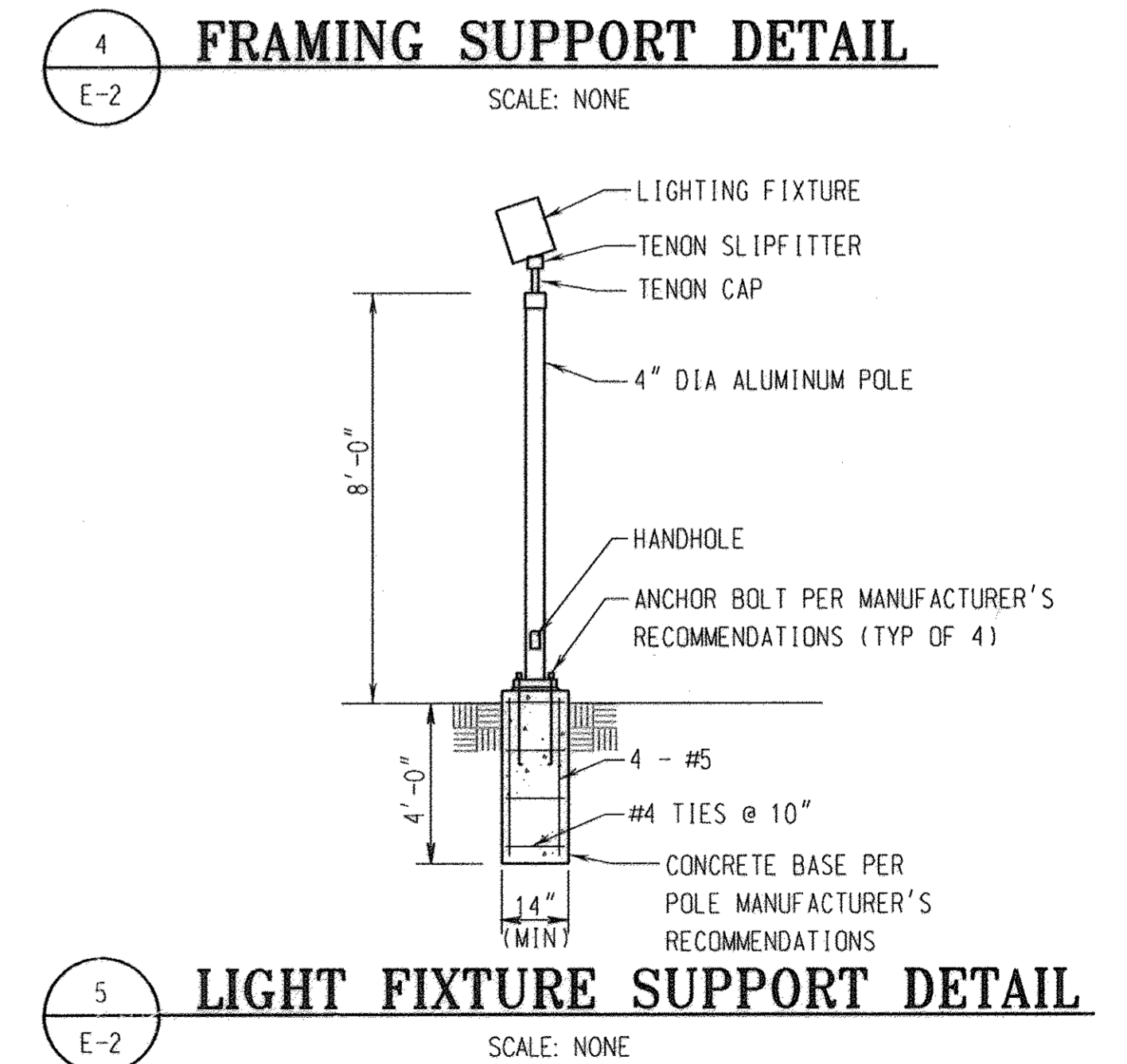
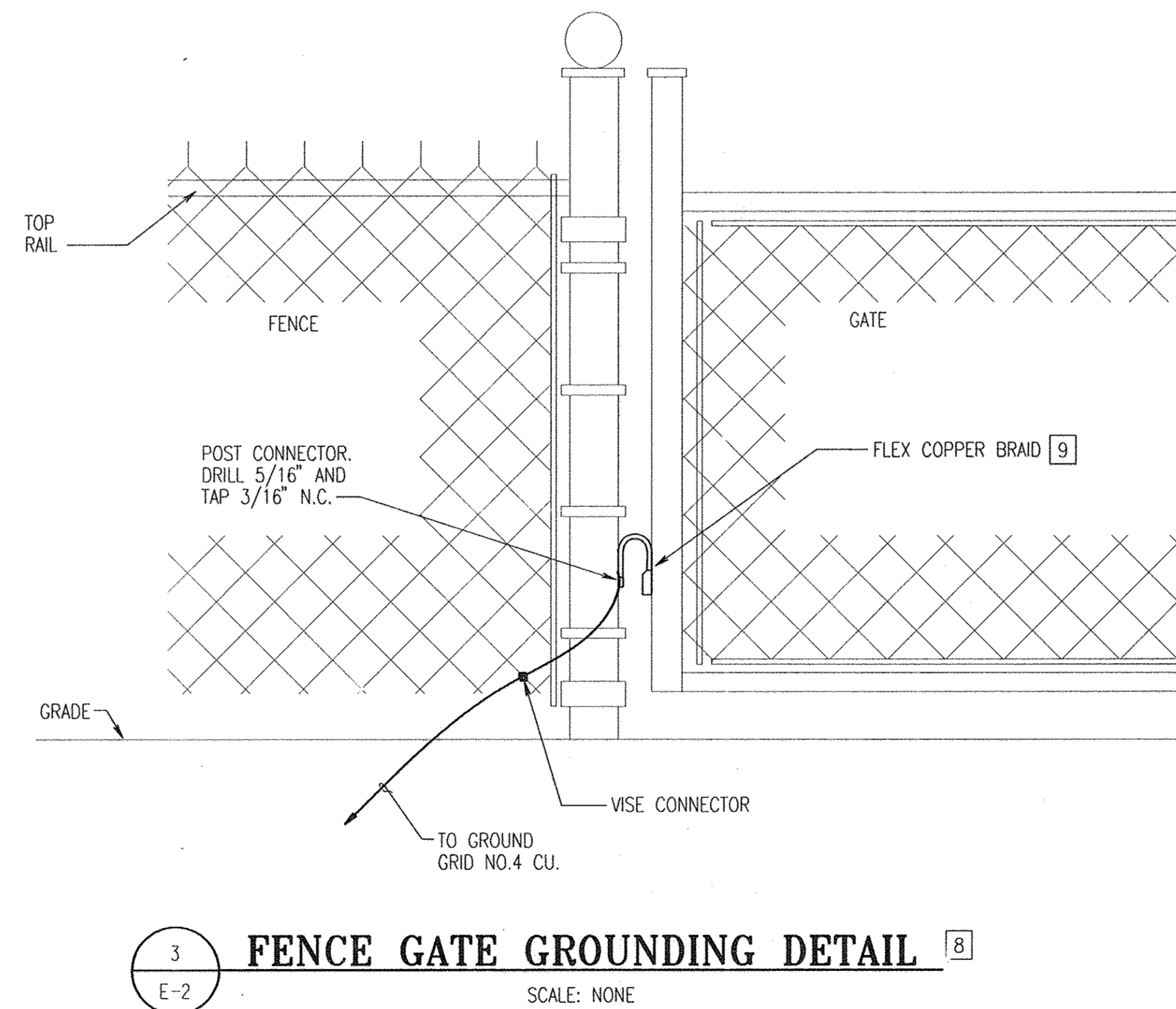
1. REFER TO C-1 FOR LOCATION OF SITE.

DRAWING NOTES

- 1 PROVIDE 2" C. CONDUCTORS BY OTHERS.
- 2 PROVIDE 3#3 & 1#8 GND IN 2" C.
- 3 PROVIDE 3#6 & 1#10 GND IN 2" C.
- 4 COORDINATE RELOCATION OF EXISTING METER WITH UTILITY COMPANY.
- 5 BOND TO PANELS AND ENCLOSURES.
- 6 BOND TO FENCE. REFER TO DETAIL 3, THIS SHEET.
- 7 BOND TO ODOR CONTROL SYSTEM EQUIPMENT FRAME.
- 8 EACH CORNER, ANGLE, AND OPENING POST SHALL BE GROUNDED IN SIMILAR MANNER.
- 9 FLEXIBLE COPPER BRAID SHALL BE MOUNTED SO THAT IT WILL NOT BE SUBJECTED TO DAMAGING STRAIN WHEN GATE IS FULLY OPEN IN EITHER DIRECTION.
- 10 REFER TO FRAMING SUPPORT DETAIL 4, THIS SHEET.
- 11 MOUNT FIXTURE TO SUPPORT POLE PER DETAIL 5 THIS SHEET.

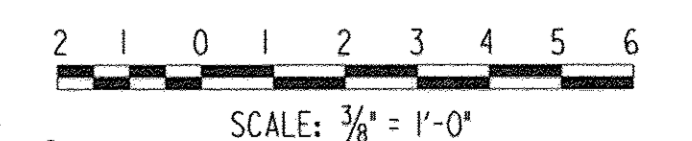


PANELBOARD M									
10K RMS AIC NEMA 1 ENCLOSURE			100 AMP BUS 120/240 VOLTS SURFACE MOUNTED				100 AMP MLO 1 PHASE, 3 WIRE + GROUND PANEL LOCATION: ENCLOSURE		
LOAD SERVED	CIRCUIT BREAKER		CKT. NO.	CKT. NO.	CIRCUIT BREAKER		LOAD SERVED		
	FRAME	TRIP	P		P	TRIP	FRAME		
ODOR CONTROL SYSTEM OCS	100	60	2	1	2	1	15	100	LIGHTING
-	-	-	-	3	4	1	20	100	RECEPTACLE
SPACE	100	-	1	5	6	1	-	100	SPACE



LIGHTING FIXTURE SCHEDULE								
FIXTURE TYPE	DESCRIPTION	MOUNTING	LAMPS			MANUFACTURER AND CATALOG No.	VOLTS	REMARKS
			No.	WATTS	TYPE			
△	FLUORESCENT 36" TASK LIGHTING FIXTURE, ALUMINUM HOUSING, ACRYLIC DIFFUSER, OPAQUE FRONT, ELECTRONIC BALLAST, FUSE.	SURFACE	1	25	F25T8	ALKCO SFLNCS150-036/GMF	120	
△	FLOODLIGHT, CAST ALUMINUM HOUSING, HIGH POWER FACTOR BALLAST, FUSE, CORROSION RESISTANT, BLACK FINISH, VANDAL GUARD, SPECIFICATION GRADE. TENON SLIPFITTER MOUNT WITH 4" DIA ROUND ALUMINUM POLE WITH TENON CAP, BLACK FINISH.	POLE 8'-0"	1	35	HPS	LITHONIA TFM-RB-120-CR-SF-TFMVC TFMVS SLIPFITTER RSA 8-4-5B-T20 POLE	120	SEE DETAIL 5 THIS SHEET.

GRAPHIC SCALE



AS-BUILT 1/08

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>Ruth Demers</i> 8-17-06 Chief, Bureau of Utilities: <i>Ruth Demers</i> 8-17-06	PREPARED BY: WR&A Whitman, Reardon and Associates, LLP. 801 SOUTH CAROLINE ST. Baltimore, Md. 21231 410-235-3450	DES: JVL DRN: AGT CHK: AP DATE: 4/28/06	REMOTE CARBON SYSTEM PLAN SCHEDULE AND DIAGRAM 600' SCALE MAP NO. 30 BLOCK NO. 9	TIBER BRANCH/CATROCK RUN ODOR MITIGATION CONTRACT NO. 10-4201 CAPITAL PROJECT NO. S-6226 ELECTION DISTRICT 3 HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 9 OF 9
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