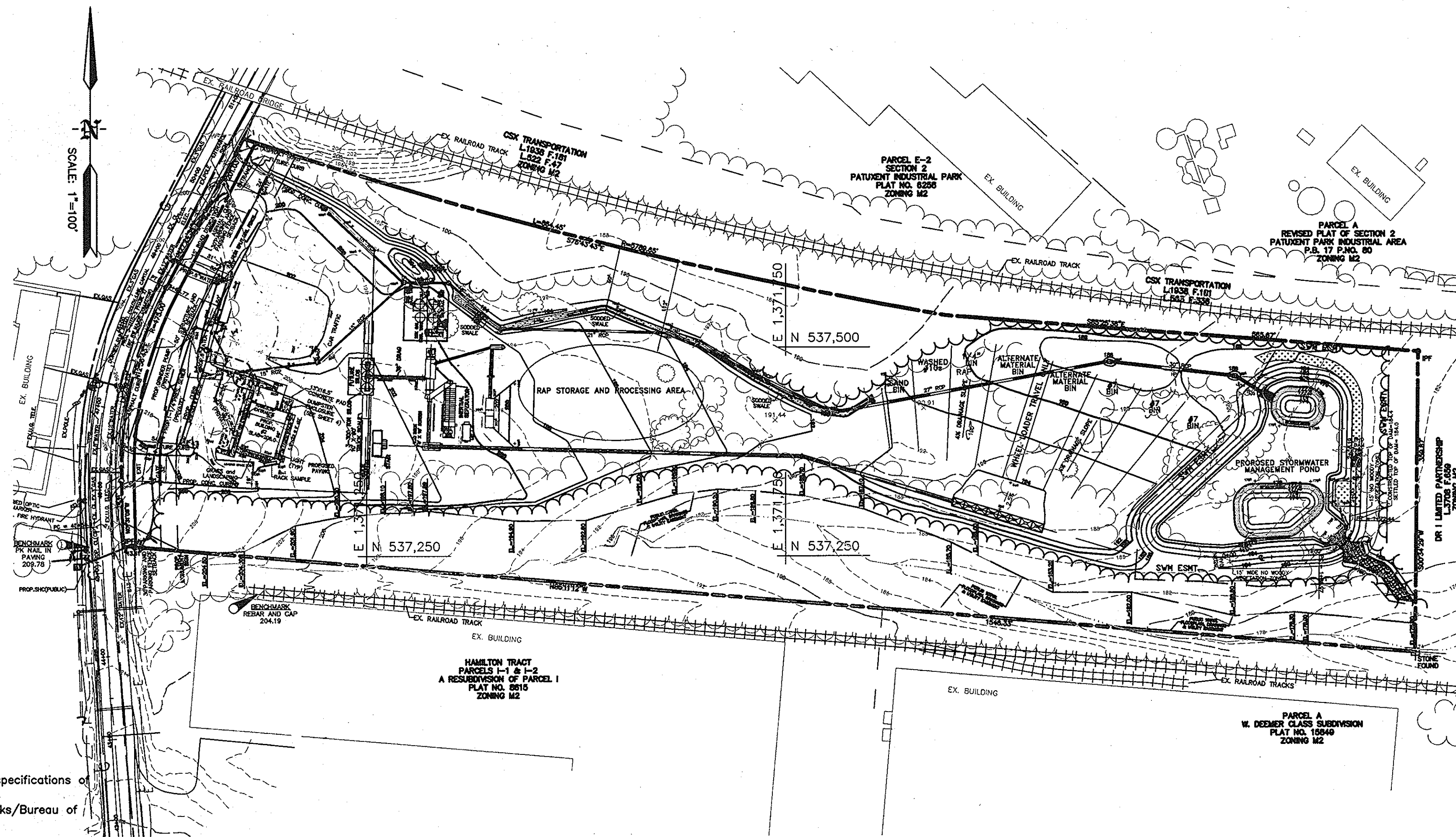


SITE ANALYSIS

- TOTAL SITE AREA: 601821 SQ-FT (13.818± AC).
- TOTAL NUMBER OF PARCELS: 1
- DEED REFERENCE: LIBER 10085 / FOLIO 523
- THE SUBJECT PROPERTY IS ZONED M-2 PER THE 07/28/06 COMPREHENSIVE ZONING PLAN.
- TAX MAP: 48 GRID: 8 PARCEL: 191 ELECTION DISTRICT: 6
- PARKING TABULATION (M-2):
PARKING REQUIRED:
 FLEX SPACE HYBRID INDUSTRIAL/OFFICE=
 2.5 PS/1,000 SF=
 2.5 X 2,500/1,000 =6.25 SPACES

 TOTAL REQUIRED = 7 SPACES
PARKING PROVIDED:
 9 STD SPACES
 1 ACCESSIBLE SPACES (1 VAN ACCESSABLE)
 10 TOTAL PROVIDED
- SITE AREA TABULATION:
 A. TOTAL PARCEL AREA(PRIOR TO DEDICATION): 13.8 AC +/-
 B. TOTAL BUILDING AREA: 0.2 AC
 C. TOTAL ACREAGE OF DEDICATION: 0.1782 AC
 D. TOTAL AREA AFTER DEDICATION: 13.6 AC +/-
- OWNER:
 JESSUP ASPHALT PARTNERS, LP
 638 LANCASTER AVENUE,
 MALVERN PA. 19355
- PROPOSED USE IS HOT MIX ASPHALT PLANT
- THE STORMWATER MANAGEMENT FACILITY IS TO CONSIST OF SWM BASINS FOR WATER QUALITY, AND CHANNEL PROTECTION VOLUME. STORMWATER MANAGEMENT FOR THE IMPROVEMENTS SHOWN ON THIS PLAN ARE BASED ON MEASURED IMPERVIOUS AREAS. ANY ADDITIONAL CONSTRUCTION ON THIS SITE SHALL REQUIRE FURTHER EVALUATION OF THE STORMWATER MANAGEMENT PROVISIONS. DUE TO THE NATURE OF THE ASPHALT MATERIALS STORED AT THE FACILITY THE SITE IS A DESIGNATED "HOT SPOT", AND THE SWM MANAGEMENT FACILITY IS DESIGNED BASED AS SUCH.
- TOTAL DISTURBED AREA = 8.7 AC
- PROPOSED BUILDINGS: 117' X 50' & 56' X 50' WITH OFFICE, LAB, AND SHOP USED
- THERE ARE NO WETLANDS/WETLANDS BUFFERS WITHIN THE LIMIT OF DISTURBANCE SHOWN FOR DEVELOPMENT ON THIS SITE PLAN.
- MAXIMUM NUMBER OF EMPLOYEES: 6 MAX. PER SHIFT.
- FOREST CONSERVATION:
 2.55 AC RETENTION CREDITED (NON-FLOODPLAIN)
 1.78 AC RETENTION NON-CREDITED (FLOODPLAIN)

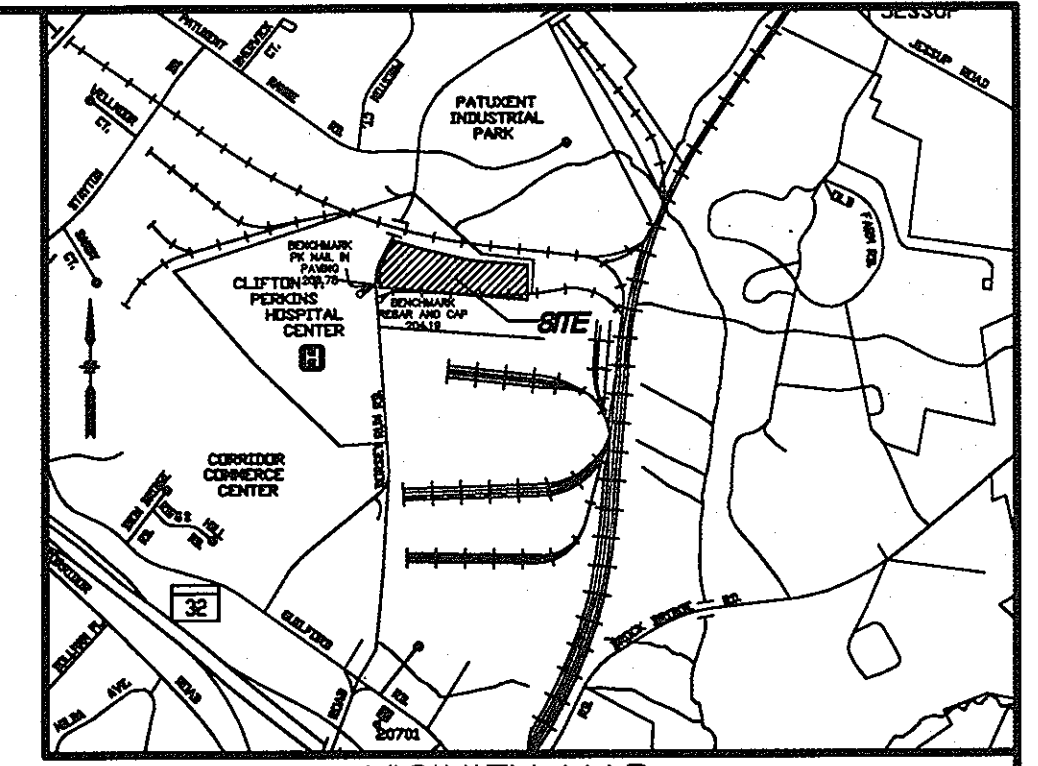
JESSUP ASPHALT PLANT



SITE PLAN
SCALE: 1"=100'

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPERTY LINE
- RIGHT-OF-WAY
- PROPOSED CURB
- PROPOSED WATER
- EXISTING TREE LINE
- PROPOSED TREE LINE
- LIMIT OF DISTURBANCE
- 100-YEAR FLOODPLAIN
- FLOODPLAIN EASEMENT
- WETLAND
- 25' WETLAND BUFFER
- 50' STREAM BUFFER
- STREAM LINE
- EXISTING GASLINE
- EXISTING WATER
- PROPOSED STORM DRAIN
- PUBLIC UTILITY EASEMENT
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED BUILDING LIGHT
- LOW POINT, HIGH POINT
- GRAVEL HATCH
- PAVING HATCH
- CONCRETE HATCH
- FENCE
- PROPOSED SODDED SWALE
- PROPOSED RIPRAP
- PROPOSED SOD MAINTENANCE ROAD
- CREDITED FOREST RETENTION AREA
- FOREST CONSERVATION SIGN (100' APART MAX.)



VICINITY MAP
SCALE: 1"=2000'
A.D.C. MAP - PAGE 20, GRID G6, H6

GENERAL NOTES

- (NON-RESIDENTIAL SITE DEVELOPMENT PLAN)
- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications if applicable.
 - The contractor or developer shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection Division 24 hours in advance of commencement of work at (410) 313-1880.
 - The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work being done.
 - Traffic control devices, markings and signing shall be in accordance with the latest edition of the Manual of Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
 - All plan dimensions are to face of curb unless otherwise noted.
 - The existing topography is taken from field run survey with two foot contour intervals prepared by GPI.
 - The coordinates shown hereon are based upon the Howard County Geodetic Control which is based up on the Maryland State Plane Coordinate System. Howard County Monument Nos. and were used for this project.
 - Water is public.
 - Sewer is public. Into the state owned pumping station west of Dorsey Run Road Station 45+00=-.
 - Stormwater management control is Micropond/ Extended Detention pond.
 - Existing utilities are based on field survey information.
 - A waiver for pressure sewer was obtained from Ron Lepsen of DPW on 2/9/2007.
 - There is floodplain on this site as indicated within the Public 100 year Floodplain, Drainage & Utility Easement.
 - The wetlands delineation study for this project was prepared by GPI, dated Jan 2006.
 - The traffic study for this project was prepared by Lenhart Traffic Consulting, Inc., dated July 7, 2006.
 - All outdoor lighting shall comply with the requirements of Zoning Section 134. The proposed outdoor lighting will be attached to the buildings. See outdoor lighting details on sheet 4.
 - Contact Traffic Division 410 313-5752 for details of No Parking signs.
 - A Knox Box is required to be placed on the front of the building. It shall be placed to the right of the main entrance at a range of 4'-5' in height and no more than 6' laterally from the door. The box shall be electronically supervised to notify owner that it is being accessed.
 - Water truck to be available at times for dust suppression.
 - Dorsey Run Road (South Link) Road Alignment, Capital Projects J-4110-2 and J-1482 are proposed for Dorsey Run road improvements at the road frontage of this project. Fee-in-lieu of \$30,514.00 was paid for frontage improvements.
 - The Forest Conservation obligation for this plan has been met by providing 2.55 AC of credited on-site retention, within FCE's #1-4 and a fee in lieu payment of \$2943.30 made to the Ho. Co. Forest Conservation Fund for the remaining 0.09 acre if reforestation obligation. Forest Conservation surety in the amount of \$22,215.60 has been posted as a part of the Developers Agreement for the 2.55 acres of credit onsite retention within FCE's #1-4. Landscape surety in the amount of \$9,900.00 has been posted as a part of the Developer's Agreement.
 - The water connection is to be installed under a modified A.D.O.
 - Related Files: F-08-031, P.N. 19398

| ADDRESS CHART | |
|--------------------|----------------------|
| LOT/PARCEL# | STREET ADDRESS |
| PARCEL A | |
| TAX MAP PARCEL 191 | 8375 DORSEY RUN ROAD |
| | JESSUP, MD. |

| PERMIT INFORMATION CHART | | | | |
|--------------------------|--------------|--------------|--------------|-----------------|
| PROJECT NAME | SECT. / AREA | LOT/PARCEL # | | |
| JESSUP ASPHALT PLANT | N/A | TM-PAR.191 | | |
| PLAT # OR L/R | GRID # | ZONE | TAX/ZONE MAP | ELECT. DISTRICT |
| L282/F77 | 8 | M-2 | 48 | 6 |
| WATER CODE | SEWER CODE | CENSUS TRACT | | |
| B02 | 4150000 | 606901 | | |

BENCHMARK INFORMATION

Benchmark #3: Elev. 209.78 (NAVD 88)
 N: 537261.40 E: 1370918.36 (NAD 83)
 Description: PK nail in paving along west side of Dorsey Run Road offsite northwest corner of Bakermark Building #8477

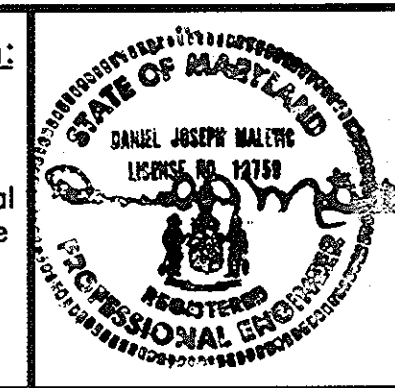
Benchmark #110: Elev. 204.19 (NAVD 88)
 N: 537203.66 E: 1371118.59 (NAD 83)
 Description: Rebar and cap 5' +/- north and 66' +/- east of the northwest corner of the Bakermark Building #8477

OWNER

JESSUP ASPHALT PARTNERS, LP
 638 LANCASTER AVE.
 MALVERN, PA. 19355
 ATTN: CURTIS HALL
 PHONE: (610) 560-7913
 FAX: (610) 560-7921

| SHEET INDEX | |
|-------------|--|
| SHEET No. | DRAWING TITLE |
| 1 | COVER SHEET |
| 2-3 | SITE PLAN |
| 4 | SITE DETAILS |
| 5 | STORM DRAIN PROFILES AND SCHEDULES |
| 6-7 | EROSION AND SEDIMENT CONTROL PLAN |
| 8 | EROSION AND SEDIMENT CONTROL NOTES & DETAILS |
| 9 | STORM WATER MANAGEMENT PLAN |
| 10 | STORM WATER MANAGEMENT, LANDSCAPING PLAN & DETAILS |
| 11-13 | DRAINAGE AREA MAP |
| 14 | FINAL LANDSCAPING PLAN |
| 15-16 | FOREST CONSERVATION PLAN |

Professional Certification:
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 13759, Expiration Date: 12/27/2009.



| | | |
|---|----|---|
| 2-26-09 | 1 | Eliminated BLDG. #1, Revised Limit of Paving, Control Center, Screen, Storm Water Location & FH Location. |
| Date | No | Revision Description |
| APPROVED: DEPARTMENT OF PLANNING AND ZONING | | |
| <i>William Deane</i> | | 9/1/07 |
| CHIEF DEVELOPMENT ENGINEERING DIVISION | | DATE |
| <i>Andy Hamilton</i> | | 9/20/07 |
| CHIEF DIVISION OF LAND DEVELOPMENT | | DATE |
| <i>David D. Ayler</i> | | 7/2/07 |
| DIRECTOR | | DATE |

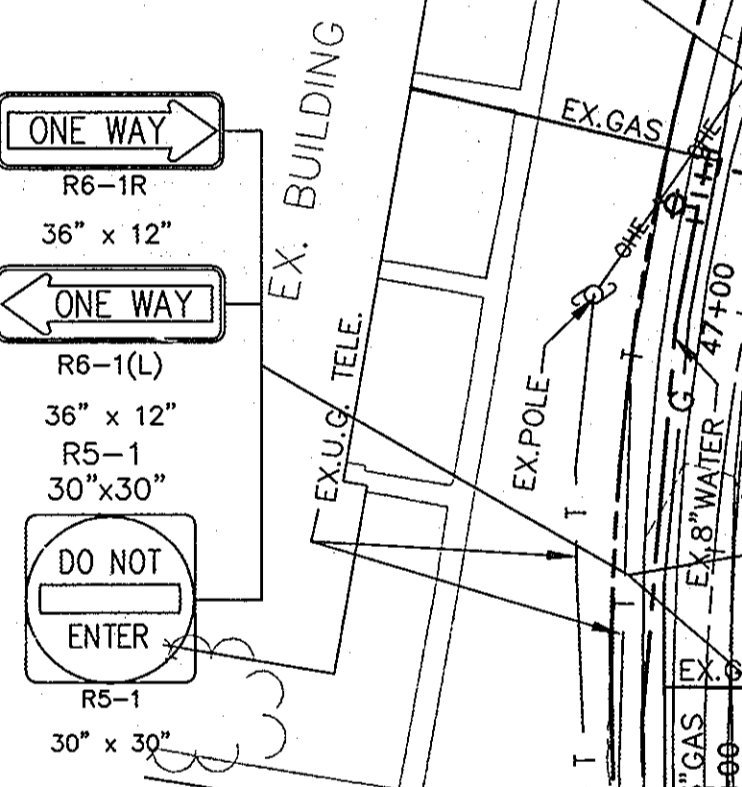
JESSUP ASPHALT PLANT
 "PARCEL A"
 TAX MAP 48 GRID 8 PARCEL 191
 ELECTION DISTRICT No. 6
 HOWARD COUNTY, MD

GPI GREENMAN-PEDERSEN, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS
 10977 GULFORD ROAD, ANNAPOLIS JUNCTION, MD 20701
 WASH. (301) 470-2772 BALT. (410) 890-3055
 FAX: (301) 490-2649 www.gpinet.com

COVER SHEET

| | | |
|------------|----------------|------------------|
| Des By: LT | Scale: 1"=100' | Proj No. 2005088 |
| Drn By: LT | Date: 7/27/07 | DRAWING NO. |
| Chk By: CR | Approved | 1 OF 16 |

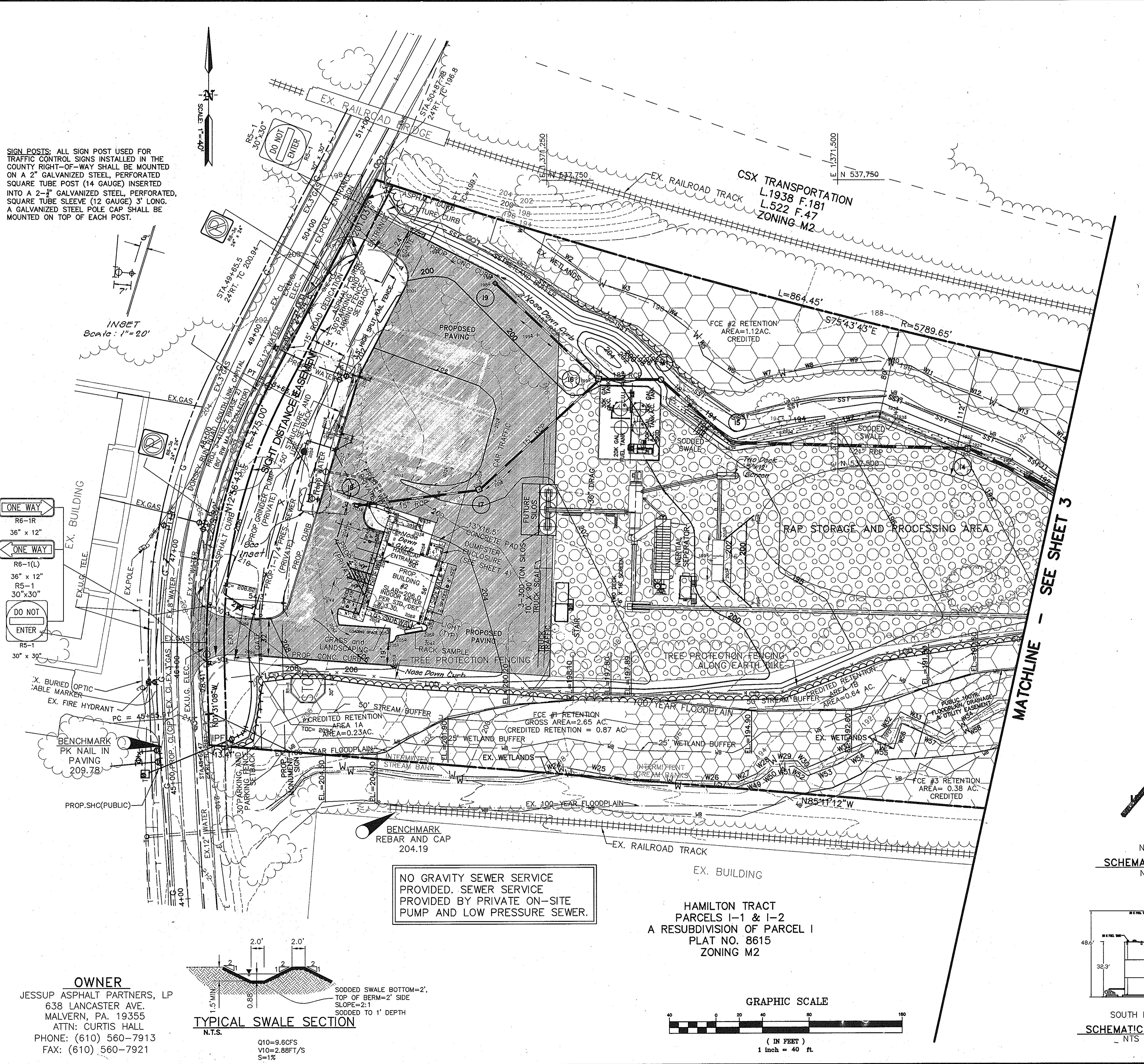
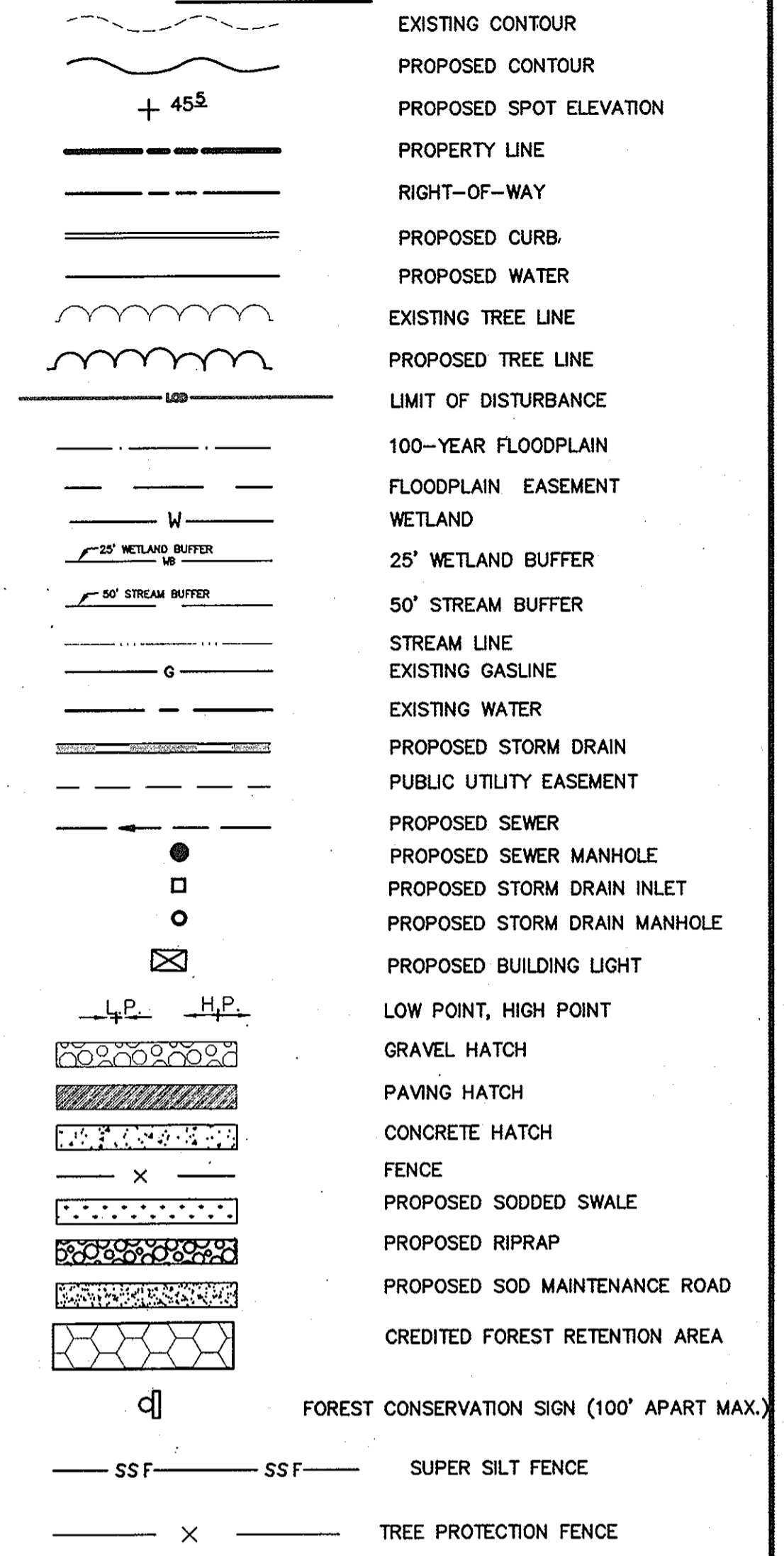
SIGN POSTS: ALL SIGN POST USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED SQUARE TUBE SLEEVE (12 GAUGE) 3' LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.



WETLAND LIMITS

| LINE | LENGTH | BEARING |
|------|--------|-------------|
| W1 | 3.60 | S17°13'17"W |
| W2 | 75.98 | S54°45'51"E |
| W3 | 50.93 | S71°35'34"E |
| W4 | 47.43 | S51°33'37"E |
| W5 | 19.38 | S30°42'58"E |
| W6 | 42.39 | S55°00'07"E |
| W7 | 38.36 | N75°42'56"E |
| W8 | 36.47 | N79°42'39"E |
| W9 | 42.77 | N85°44'10"E |
| W10 | 27.88 | S81°15'33"E |
| W11 | 27.73 | S59°12'49"E |
| W12 | 58.63 | S68°57'44"E |
| W13 | 34.76 | S86°22'10"E |
| W14 | 42.46 | S50°30'10"E |
| W15 | 30.68 | S57°21'48"E |
| W16 | 69.19 | S62°47'48"E |
| W17 | 21.41 | S82°50'44"E |
| W18 | 47.83 | N61°09'16"E |
| W19 | 24.64 | N48°23'06"E |
| W20 | 34.45 | N62°31'12"E |
| W21 | 23.36 | N50°45'58"E |
| W22 | 24.58 | N64°09'26"E |
| W23 | 2.75 | N07°43'46"E |
| W24 | 21.23 | N78°54'58"E |
| W25 | 53.67 | S79°17'47"E |
| W26 | 94.70 | S88°35'08"E |
| W27 | 17.19 | N66°28'25"E |
| W28 | 17.48 | N51°34'28"E |
| W29 | 21.30 | N59°36'23"E |
| W30 | 8.38 | S41°55'56"E |
| W31 | 72.71 | N67°08'01"E |
| W32 | 25.67 | N37°05'20"E |
| W33 | 43.81 | S62°23'50"E |
| W34 | 53.87 | N56°18'27"E |
| W35 | 58.08 | N87°28'22"E |
| W36 | 39.95 | S85°16'20"E |
| W37 | 42.84 | S79°20'19"E |
| W38 | 67.01 | S61°19'07"E |
| W39 | 23.86 | S72°48'16"E |
| W40 | 24.08 | S87°08'48"E |
| W41 | 45.03 | S79°42'10"E |
| W42 | 48.21 | S68°12'44"E |
| W43 | 46.37 | S75°55'04"E |
| W44 | 128.91 | S72°15'09"E |
| W45 | 29.04 | S79°39'04"E |
| W46 | 78.94 | N85°04'27"E |
| W47 | 51.92 | N88°59'28"E |
| W48 | 74.73 | S76°05'39"E |
| W49 | 23.86 | N71°13'22"E |
| W50 | 13.85 | N51°58'43"E |
| W51 | 18.37 | N81°08'05"E |
| W52 | 14.73 | S55°21'19"E |
| W53 | 28.00 | N69°06'31"E |
| W54 | 31.19 | N60°37'36"E |
| W55 | 20.63 | S83°41'09"E |
| W56 | 22.93 | N17°27'36"E |
| W57 | 40.52 | S65°27'42"E |
| W58 | 55.93 | N60°22'59"E |
| W59 | 52.73 | N84°29'49"E |
| W60 | 92.19 | S84°15'11"E |
| W61 | 79.58 | S54°28'51"E |
| W62 | 24.79 | S74°17'57"E |
| W63 | 25.07 | S88°47'37"E |
| W64 | 45.06 | S80°02'47"E |
| W65 | 42.58 | S69°18'06"E |
| W66 | 51.55 | S75°40'45"E |
| W67 | 39.70 | S68°06'58"E |
| W68 | 68.81 | S73°38'08"E |
| W69 | 37.13 | N82°51'42"E |
| W70 | 51.45 | S86°35'34"E |
| W71 | 54.43 | S75°43'53"E |

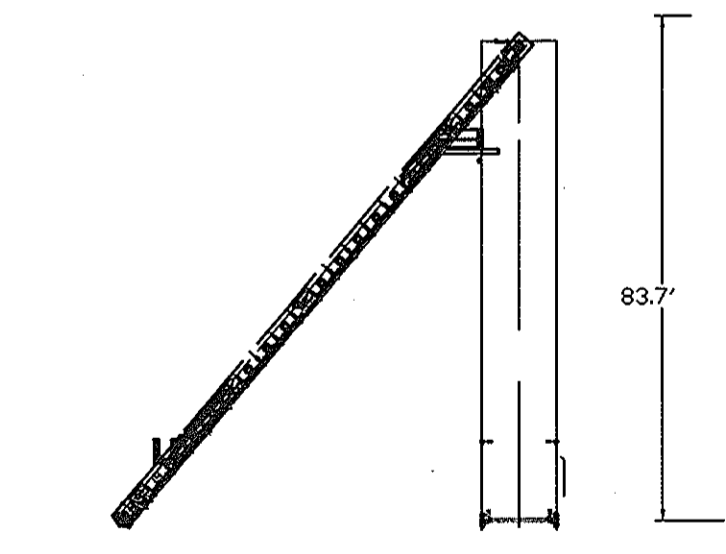
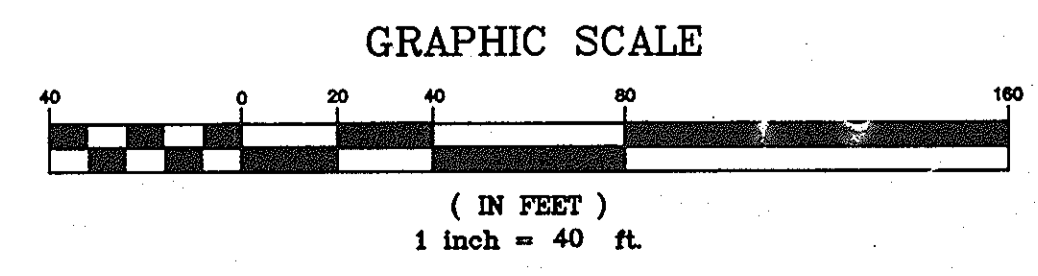
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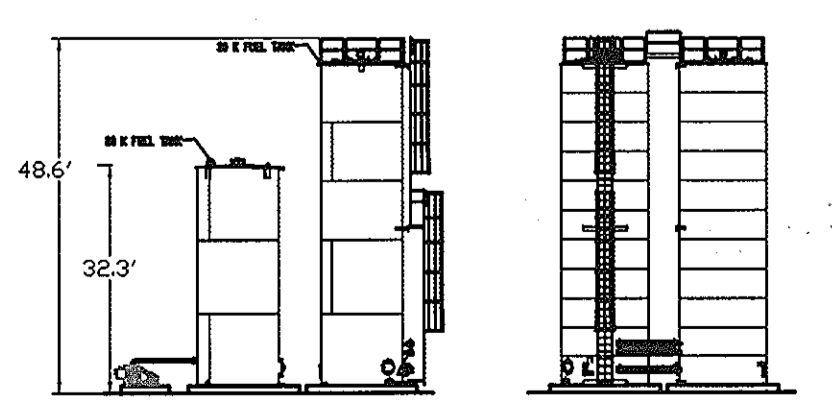
MATCHLINE - SEE SHEET 3

NO GRAVITY SEWER SERVICE PROVIDED. SEWER SERVICE PROVIDED BY PRIVATE ON-SITE PUMP AND LOW PRESSURE SEWER.

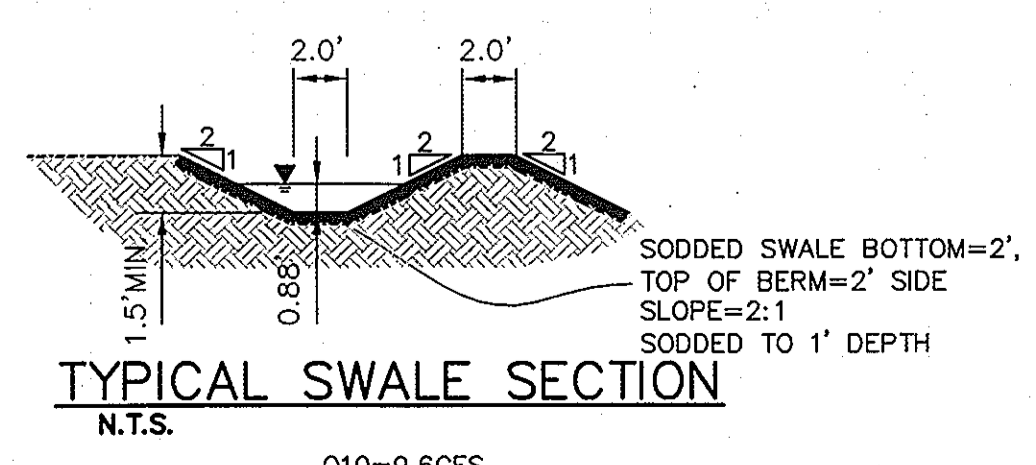
HAMILTON TRACT PARCELS I-1 & I-2 A RESUBDIVISION OF PARCEL I PLAT NO. 8615 ZONING M2



NORTH ELEVATION SCHEMATIC SILO ELEVATION NTS



SOUTH ELEVATION WEST ELEVATION SCHEMATIC STORAGE TANK ELEVATIONS NTS



TYPICAL SWALE SECTION N.T.S.

OWNER
JESSUP ASPHALT PARTNERS, LP
638 LANCASTER AVE.
MALVERN, PA. 19355
ATTN: CURTIS HALL
PHONE: (610) 560-7913
FAX: (610) 560-7921

Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 13759, Expiration Date: 12/27/2008.



| | | |
|---|--------|---|
| 2-26-09 | 1 | Eliminated BLDG#1, Revised Limit of Paving, Control Center, Screen, Stirrer, 2" Water Location & F.H. Location. |
| Date | No | Revision Description |
| APPROVED: DEPARTMENT OF PLANNING AND ZONING | | |
| <i>Cheryl Penness</i> | 9/2/09 | DATE |
| CHIEF DEVELOPMENT ENGINEERING DIVISION | | |
| <i>Cathy Hanrahan</i> | 9/2/09 | DATE |
| CHIEF DIVISION OF LAND DEVELOPMENT | | |
| <i>Mark D. Wyle</i> | 9/2/09 | DATE |
| DIRECTOR | | |

JESSUP ASPHALT PLANT
"PARCEL A"
TAX MAP 48 GRID 8 PARCEL 191
ELECTION DISTRICT No. 6
HOWARD COUNTY, MD

GPI GREENMAN-PEDERSEN, INC.
ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS
10977 GUILFORD ROAD, ANNAPOLIS JUNCTION, MD 20701
WASH. (301) 470-2772 BALT. (410) 880-3055
PA. (301) 490-2649 www.gpiinc.com

| | | |
|------------------|----------------|------------------|
| SITE PLAN | | |
| Des By LT | Scale 1" = 40' | Proj No. 2005068 |
| Drn By LT | Date 7/21/07 | DRAWING NO |
| Chk By | Approved | 2 OF 16 |

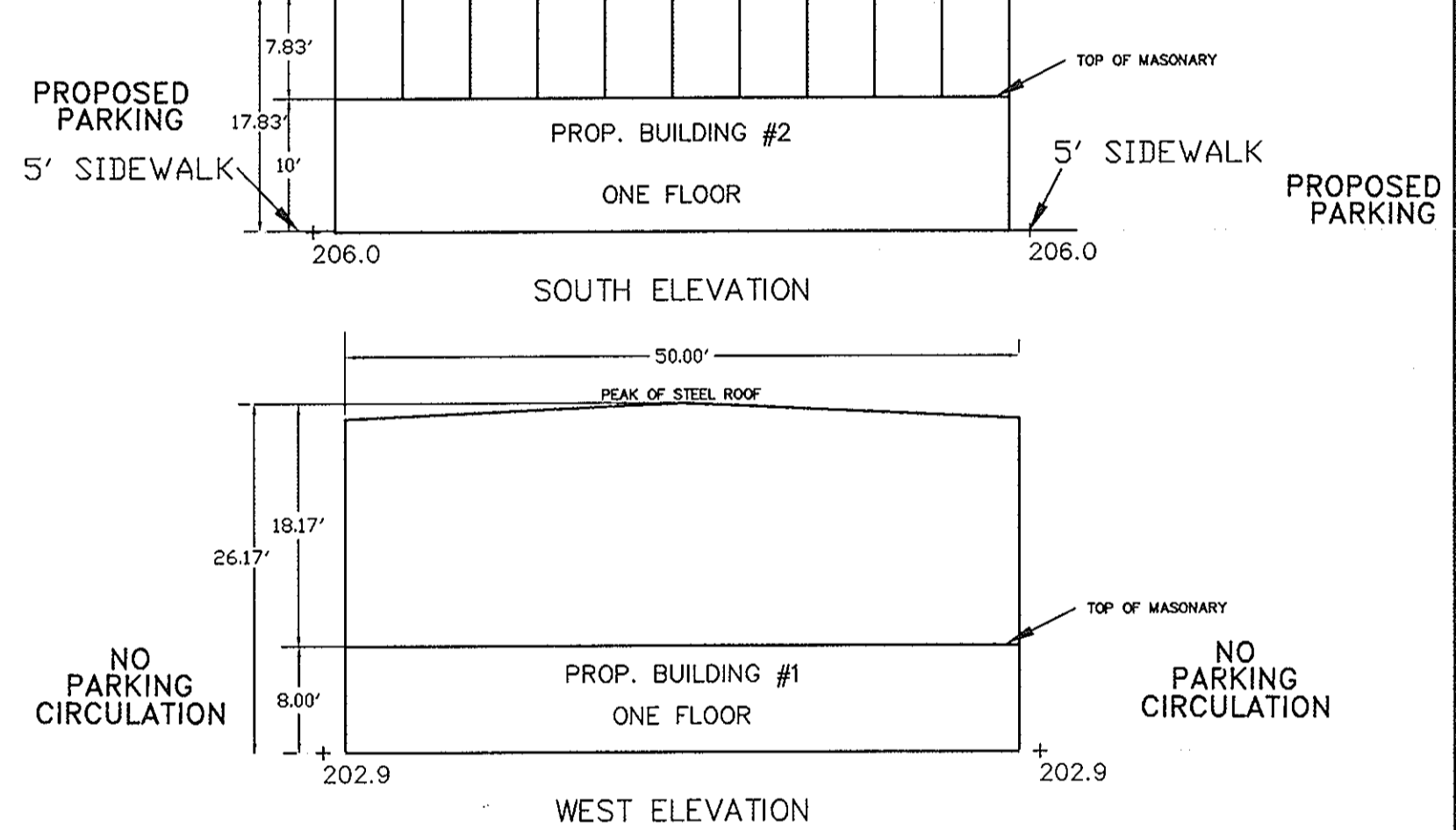
PARCEL E-2
SECTION 2
PATUXENT INDUSTRIAL PARK
PLAT NO. 6258
ZONING M2

PARCEL A
REVISED PLAT OF SECTION 2
PATUXENT PARK INDUSTRIAL AREA
P.B. 17 P.NO. 80
ZONING M2

CSX TRANSPORTATION
L.1938 F.181
L.563 F.336

DR I LIMITED PARTNERSHIP
L.3708 F.659
ZONING M2

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
SHOULDER WORK /2-LANE, 2-WAY
GREATER THAN 40 MPH
STANDARD NO. MD 104.02-01



SCHEMATIC BUILDING ELEVATIONS
NTS

OWNER
JESSUP ASPHALT PARTNERS, LP
638 LANCASTER AVE.
MALVERN, PA. 19355
ATTN: CURTIS HALL
PHONE: (610) 560-7913
FAX: (610) 560-7921

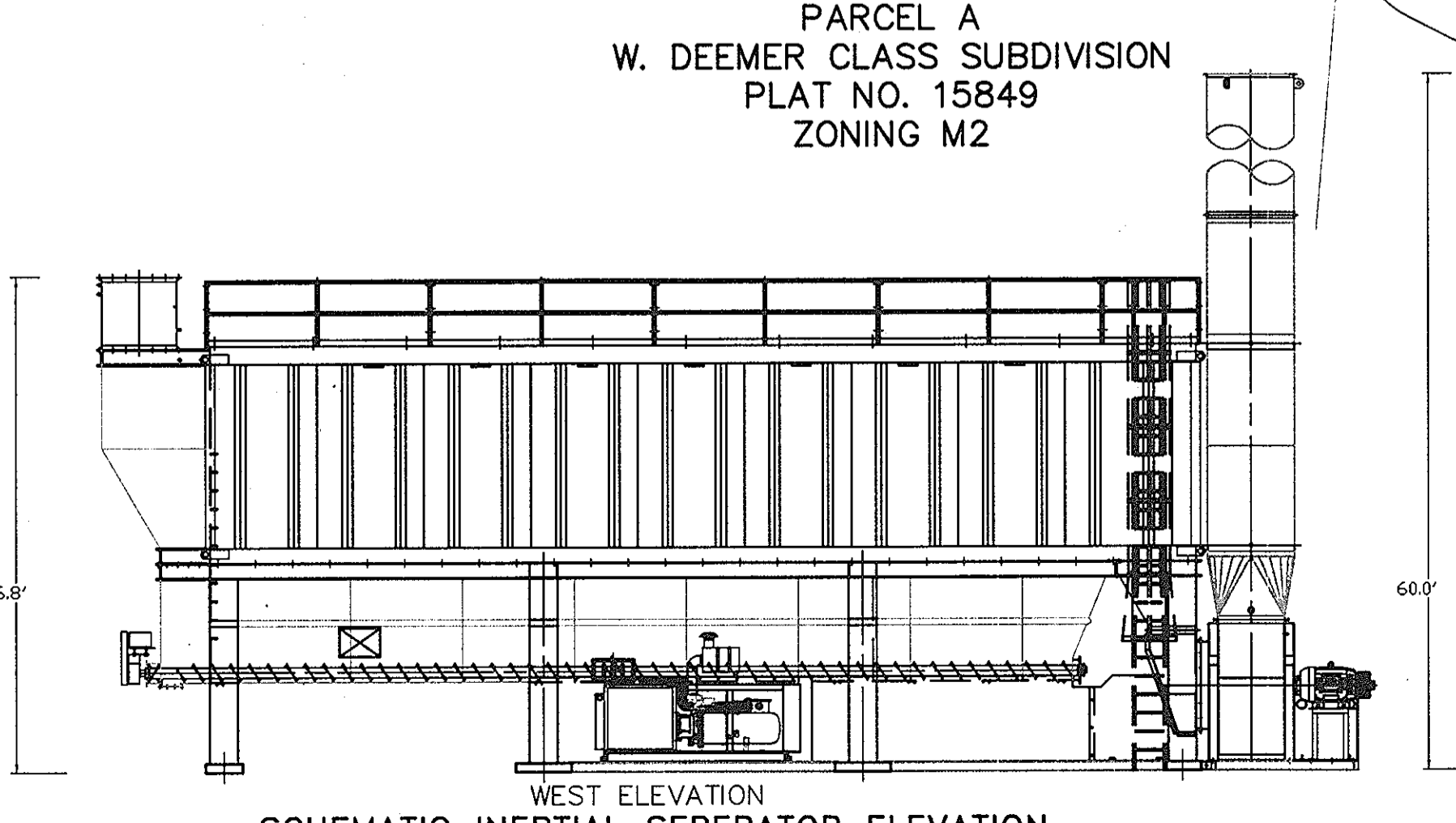
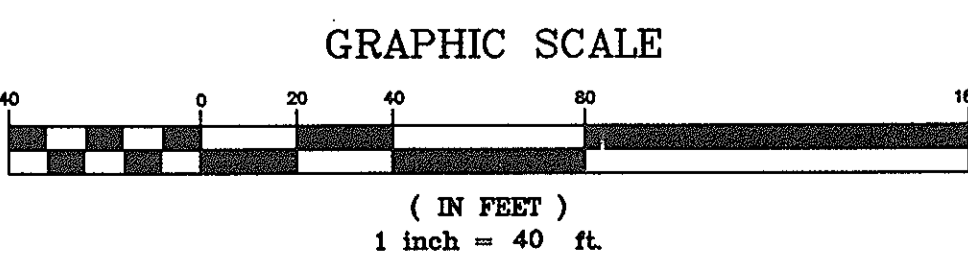
| Date | No | Revision Description |
|------|----|---|
| | | APPROVED: DEPARTMENT OF PLANNING AND ZONING |
| | | CHIEF DEVELOPMENT ENGINEERING DIVISION |
| | | CHIEF DIVISION OF PLANNING AND DEVELOPMENT |
| | | DIRECTOR |

JESSUP ASPHALT PLANT
"PARCEL A"
TAX MAP 48 GRID 8 PARCEL 191
ELECTION DISTRICT No. 6
HOWARD COUNTY, MD

GPI GREENMAN-PEDERSEN, INC.
ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS
10777 GULFORD ROAD, ANNAPOLIS JUNCTION, MD 20701
WASH. (301) 470-7772 BALT. (410) 850-2055
FAX: (301) 490-2649 www.gpi.net

| Des By | LT | Scale | 1" = 40' | Proj No. | 2005058 |
|--------|----|----------|----------|------------|---------|
| Drn By | LT | Date | 7/27/07 | DRAWING NO | |
| Chk By | | Approved | | | 3 OF 16 |

Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 13759, Expiration Date: 12/27/2007.

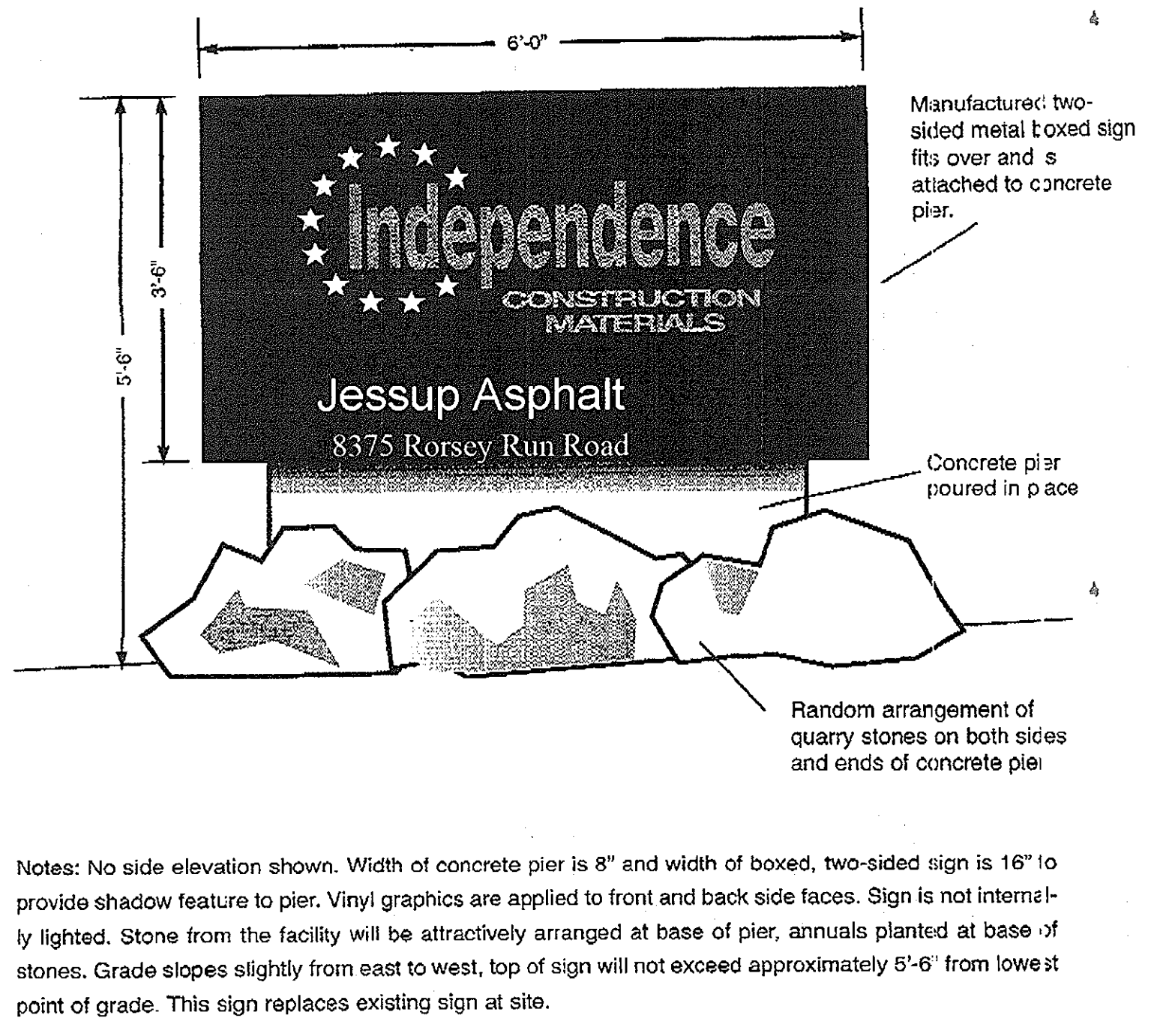
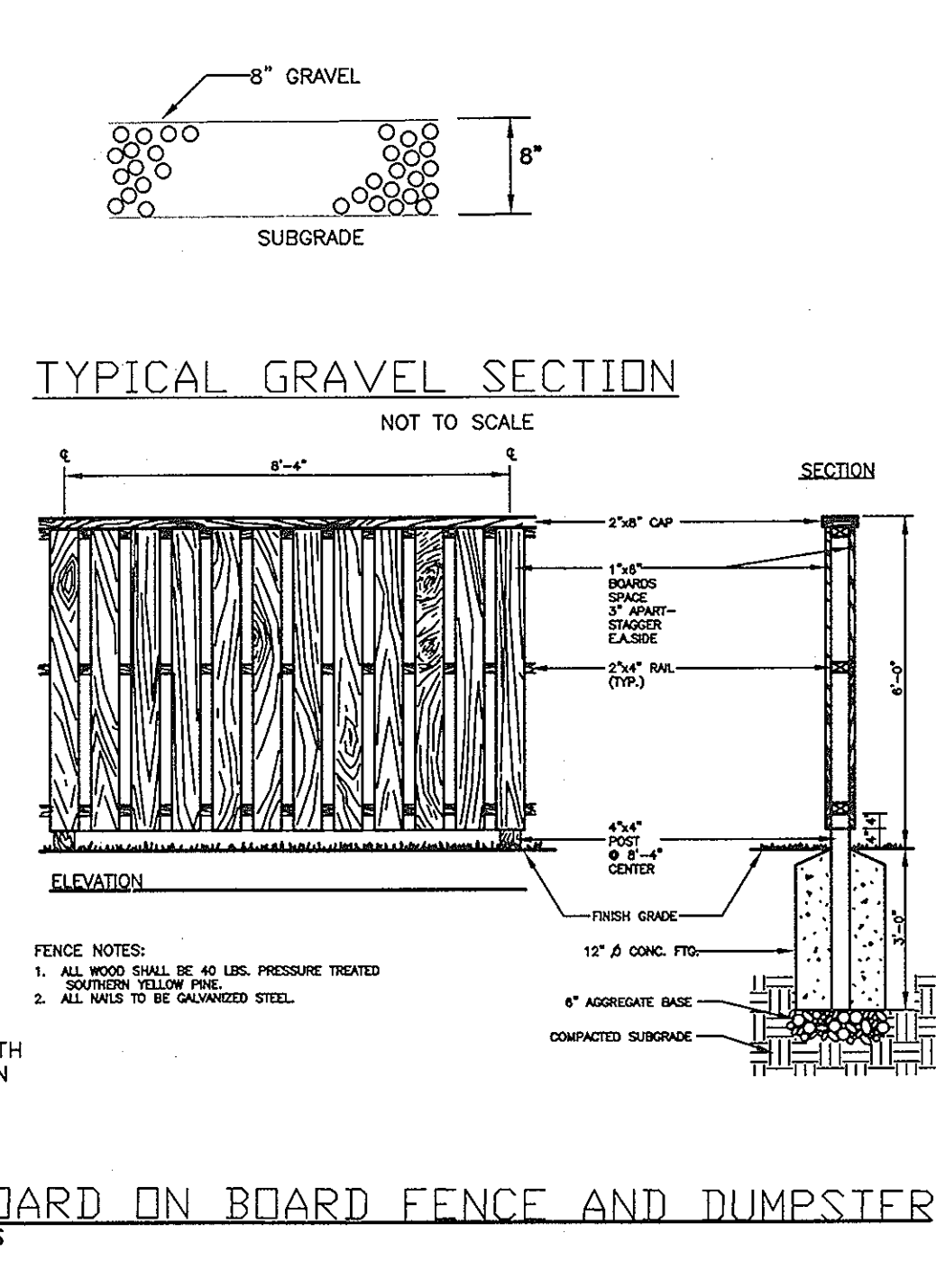
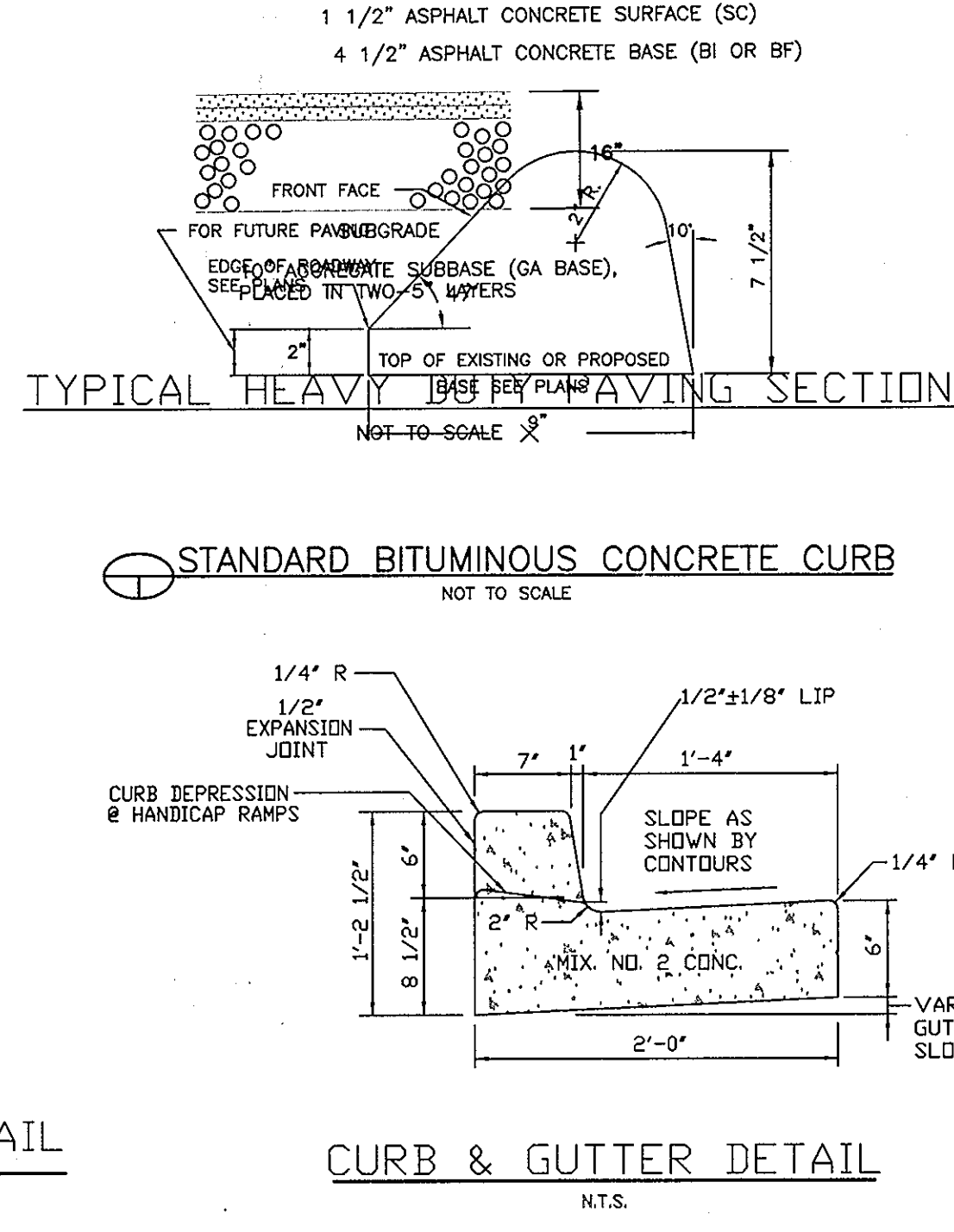
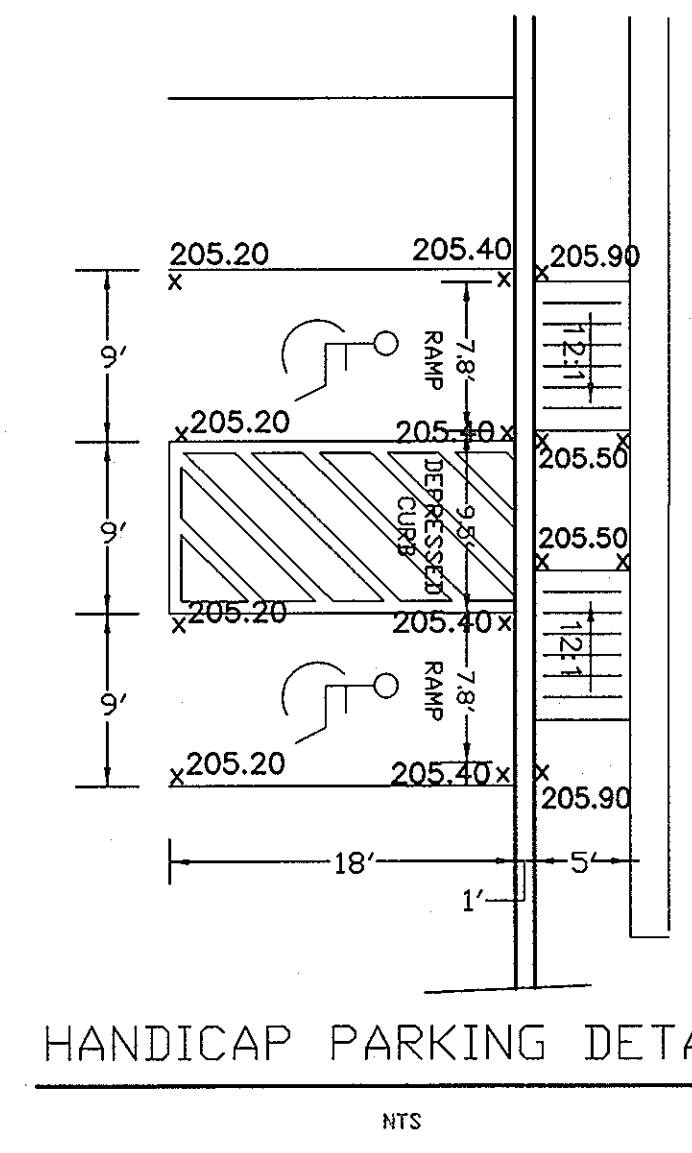
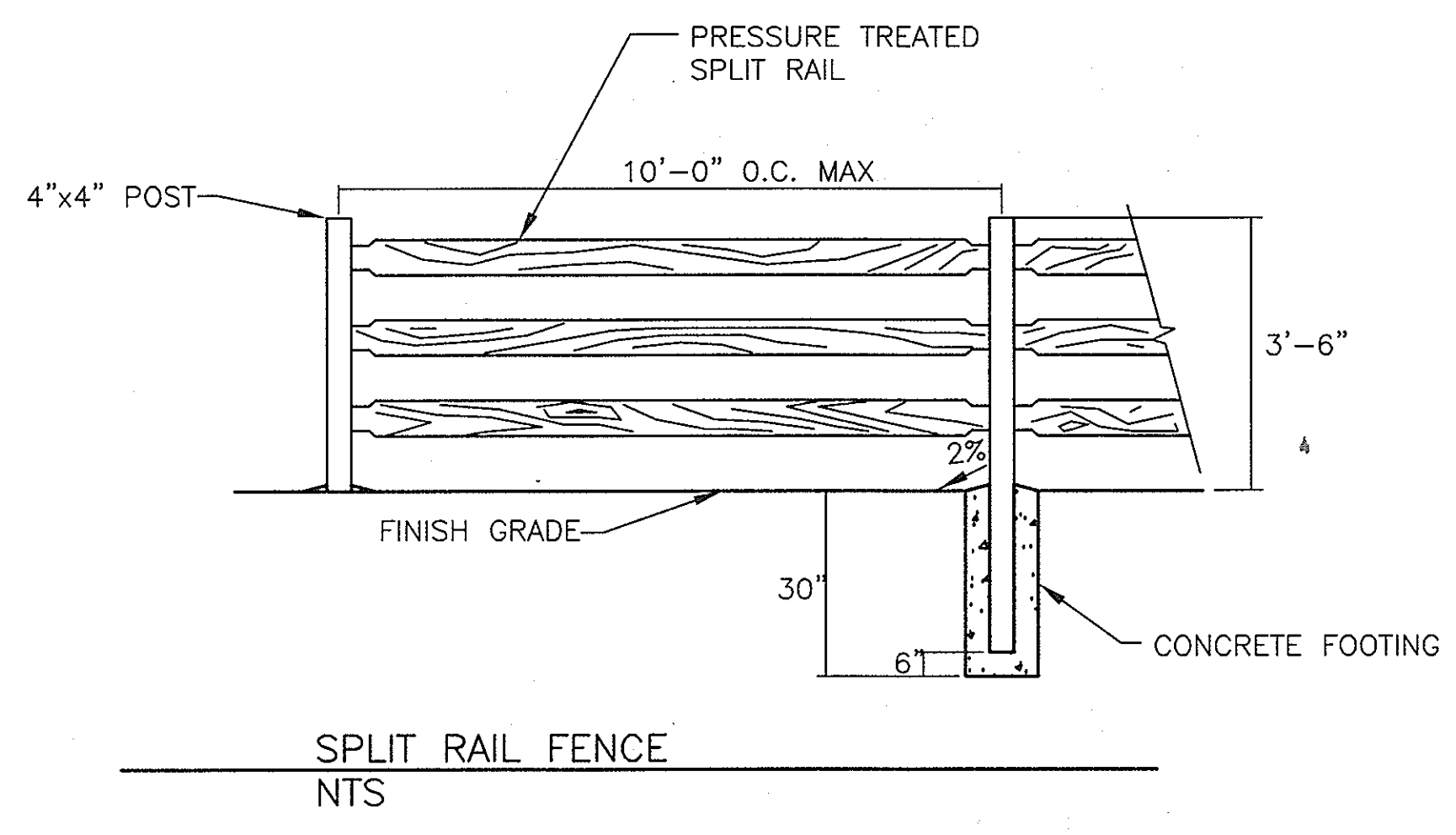
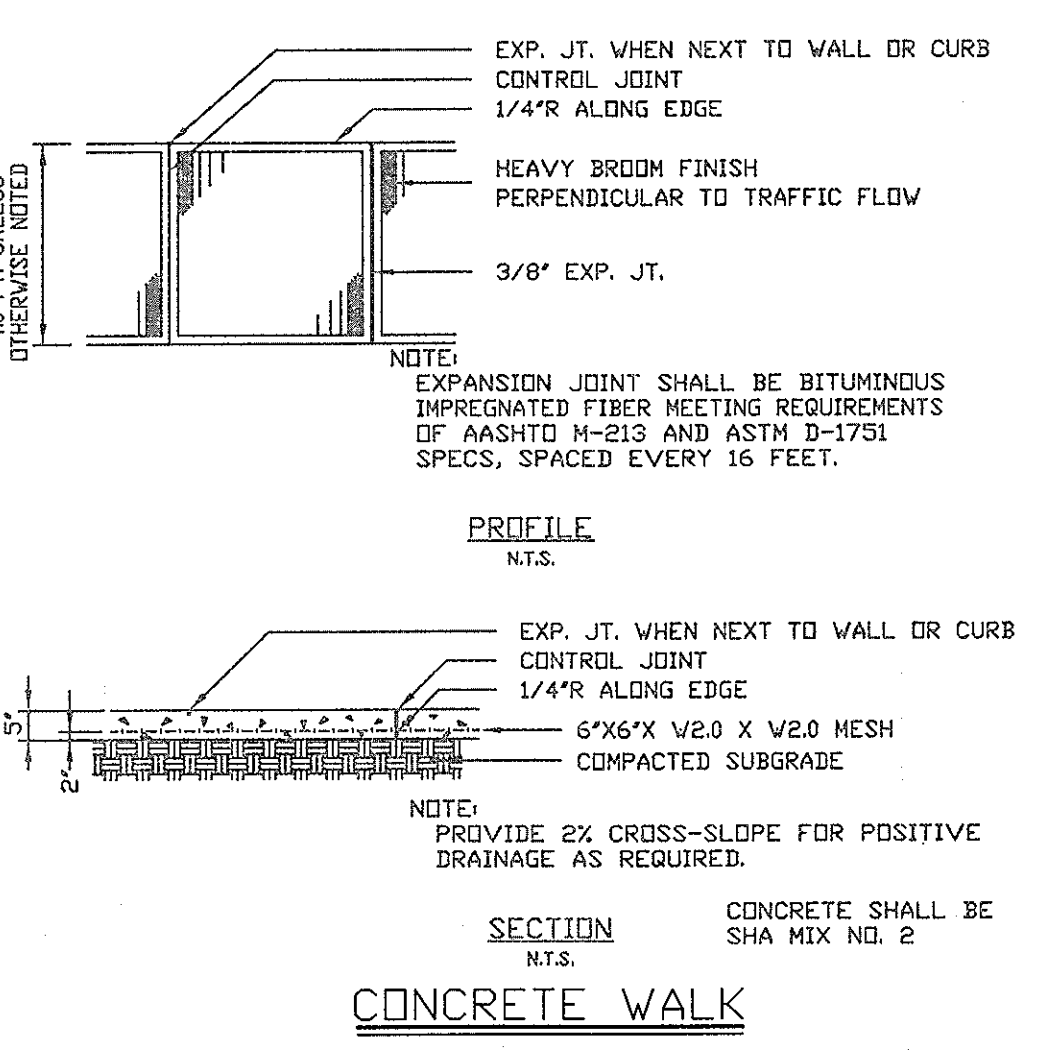
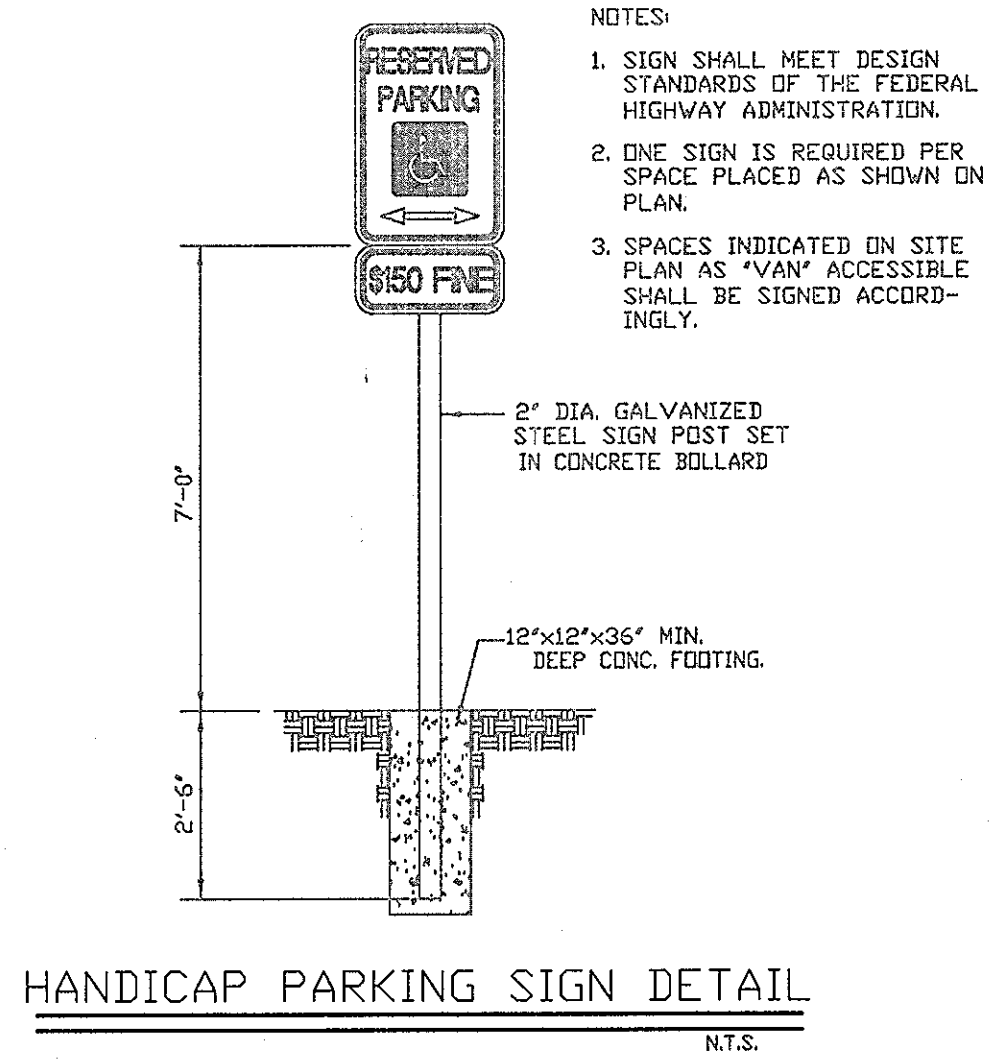
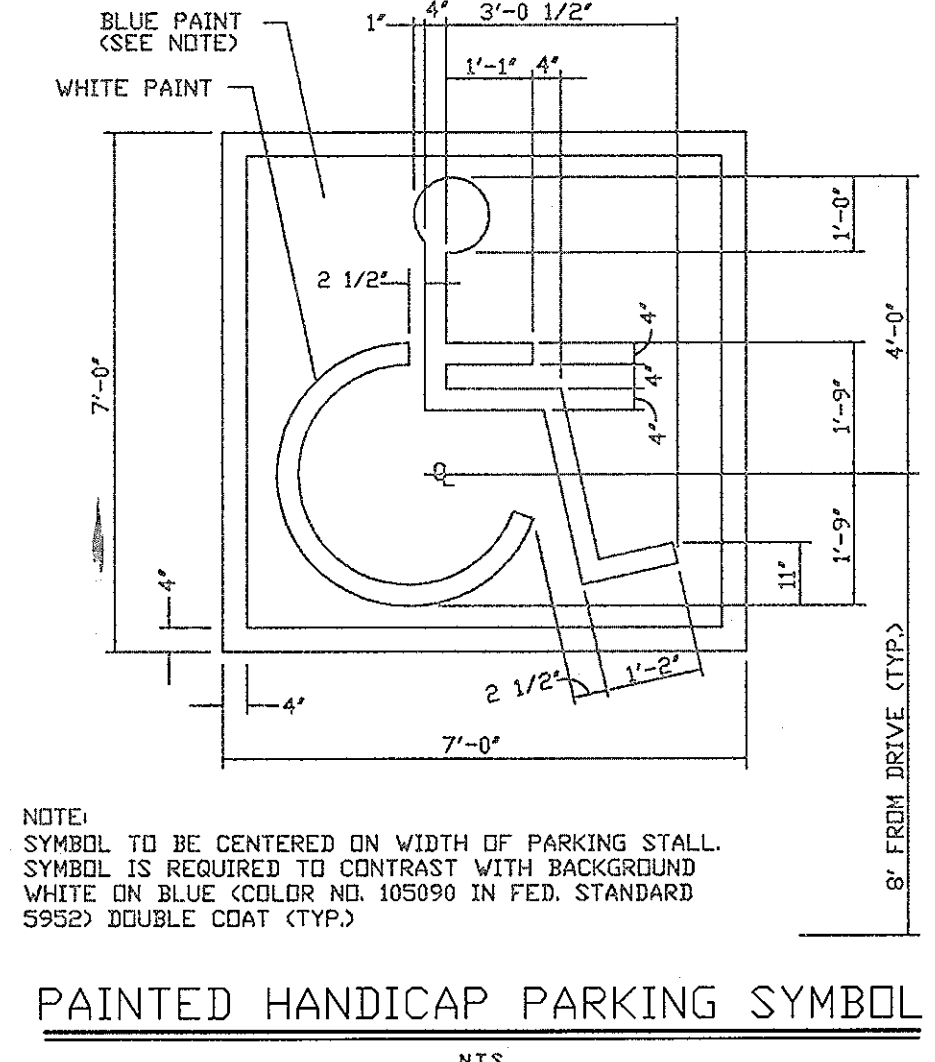
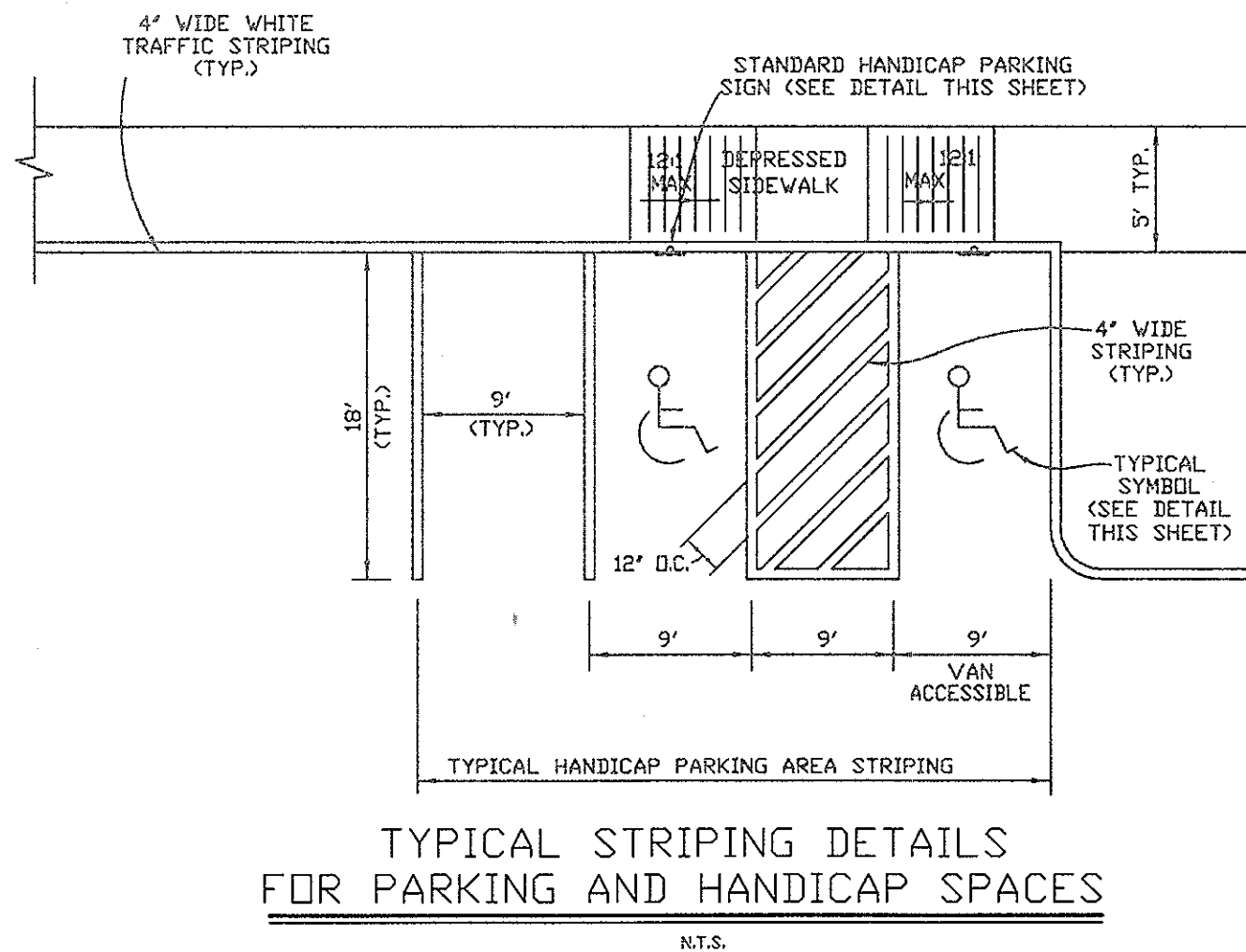


WEST ELEVATION
SCHEMATIC INERTIAL SEPARATOR ELEVATION
NTS

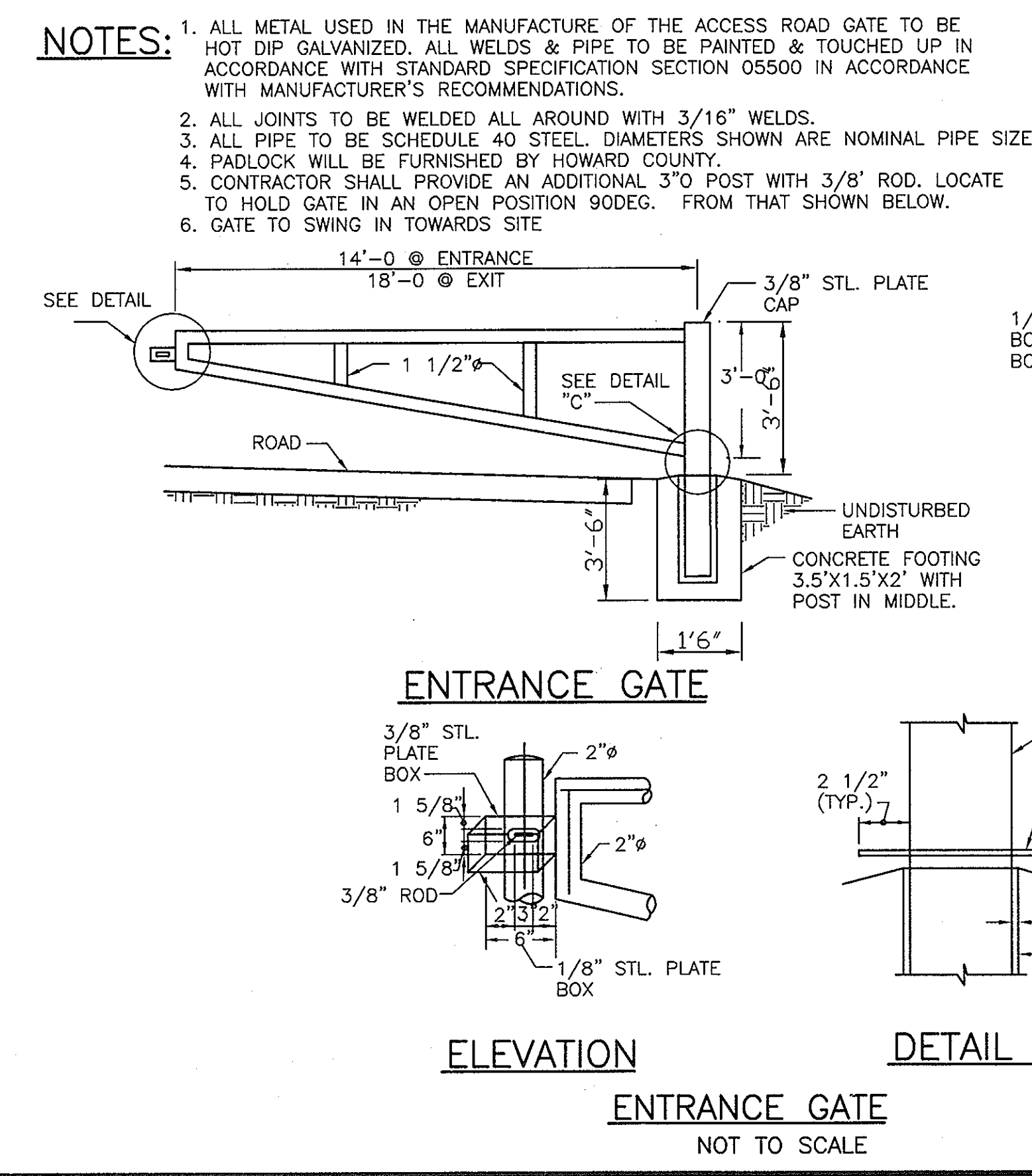
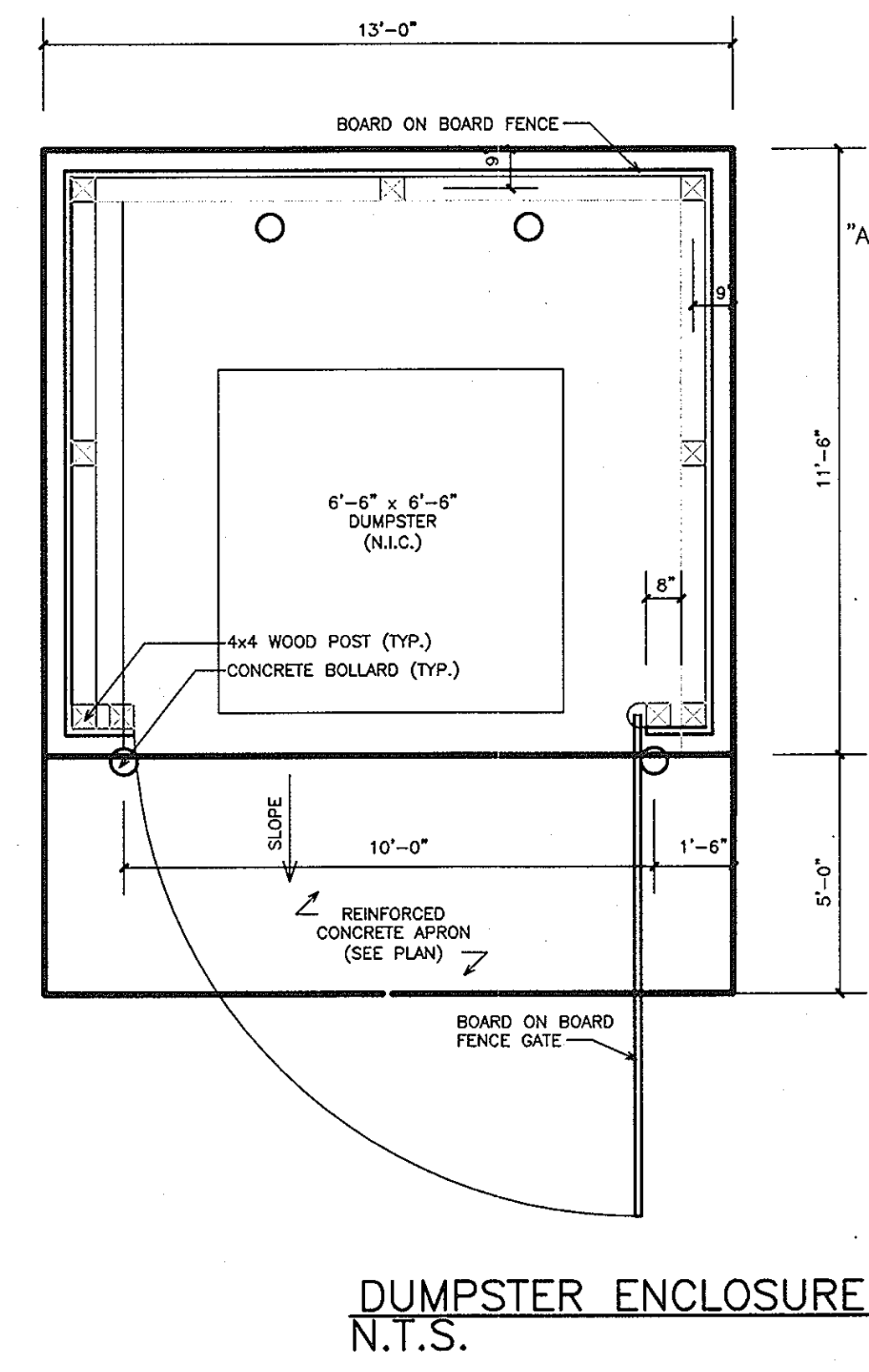
| LEGEND | |
|--------|--|
| | EXISTING CONTOUR |
| | PROPOSED CONTOUR |
| | PROPOSED SPOT ELEVATION |
| | PROPERTY LINE |
| | RIGHT-OF-WAY |
| | PROPOSED CURB |
| | PROPOSED WATER |
| | EXISTING TREE LINE |
| | PROPOSED TREE LINE |
| | LIMIT OF DISTURBANCE |
| | 100-YEAR FLOODPLAIN |
| | FLOODPLAIN EASEMENT |
| | WETLAND |
| | 25' WETLAND BUFFER |
| | 50' STREAM BUFFER |
| | STREAM LINE |
| | EXISTING GASLINE |
| | EXISTING WATER |
| | PROPOSED STORM DRAIN |
| | TREE PROTECTION FENCE |
| | PUBLIC UTILITY EASEMENT |
| | PROPOSED SEWER |
| | PROPOSED SEWER MANHOLE |
| | PROPOSED STORM DRAIN INLET |
| | PROPOSED STORM DRAIN MANHOLE |
| | PROPOSED BUILDING LIGHT |
| | LOW POINT, HIGH POINT |
| | GRAVEL HATCH |
| | PAVING HATCH |
| | CONCRETE HATCH |
| | FENCE |
| | PROPOSED SODDED SWALE |
| | PROPOSED RIPRAP |
| | PROPOSED SOD MAINTENANCE ROAD |
| | CREDITED FOREST RETENTION AREA |
| | FOREST CONSERVATION SIGN (100' APART MAX.) |
| | SUPER SILT FENCE |

MATCHLINE - SEE SHEET 2

SCALE = 1" = 40'



Andresen Advertising Design
661 Exton Commons
Exton, PA 19341
610-283-0444



Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 13759, Expiration Date: 12/27/2007.

PLAN DETAIL "A"

ELEVATION

DETAIL "C"

OWNER
JESSUP ASPHALT PARTNERS, LP
638 LANCASTER AVE.
MALVERN, PA. 19355
ATTN: CURTIS HALL
PHONE: (610) 560-7913
FAX: (610) 560-7921

LITHONIA LIGHTING

FEATURES & SPECIFICATIONS
INTENDED USE — Outdoor storage areas, warehouses and factory perimeters and loading docks.
CONSTRUCTION — Rugged, corrosion resistant, die-cast aluminum. Corrosion resistant exterior hardware includes stainless steel fasteners.
FINISH — Standard finish is electrostatically-applied, oven-cured, dark bronze (ODS) corrosion resistant polyester powder.
OPTICAL SYSTEM — Reflector is specular anodized aluminum. Reflector is prismatic borosilicate glass which is sealed and gasketed to inhibit the entrance of outside contaminants.
ELECTRICAL SYSTEM — Dual-voltage, constant-voltage autotransformer. Enclosed and potted solid state ignitor. Ballast is copper wound and 100% factory tested. Meets ANSI standards and is UL listed. Electrical components are mounted in hinged front cover that includes primary and secondary electrical disconnects. Factory pre-wired for 500/277V operation.
INSTALLATION — Back housing is separated from front housing, eliminating ballast weight and promoting easy handling. Top 3/4" threaded wiring access. Back access through removable "X" knockout. Feed-thru wiring can be achieved by using a conduit tee. Mount on any vertical surface. Not recommended in applications where a sprayed stream of water can come in direct contact with glass lens.
LISTING — UL listed suitable for wet locations.

ORDERING INFORMATION
Choose the fixture family, mounting height and wattage and refer to the appropriate line. Other accessories are featured on separate sheets (shown separately).

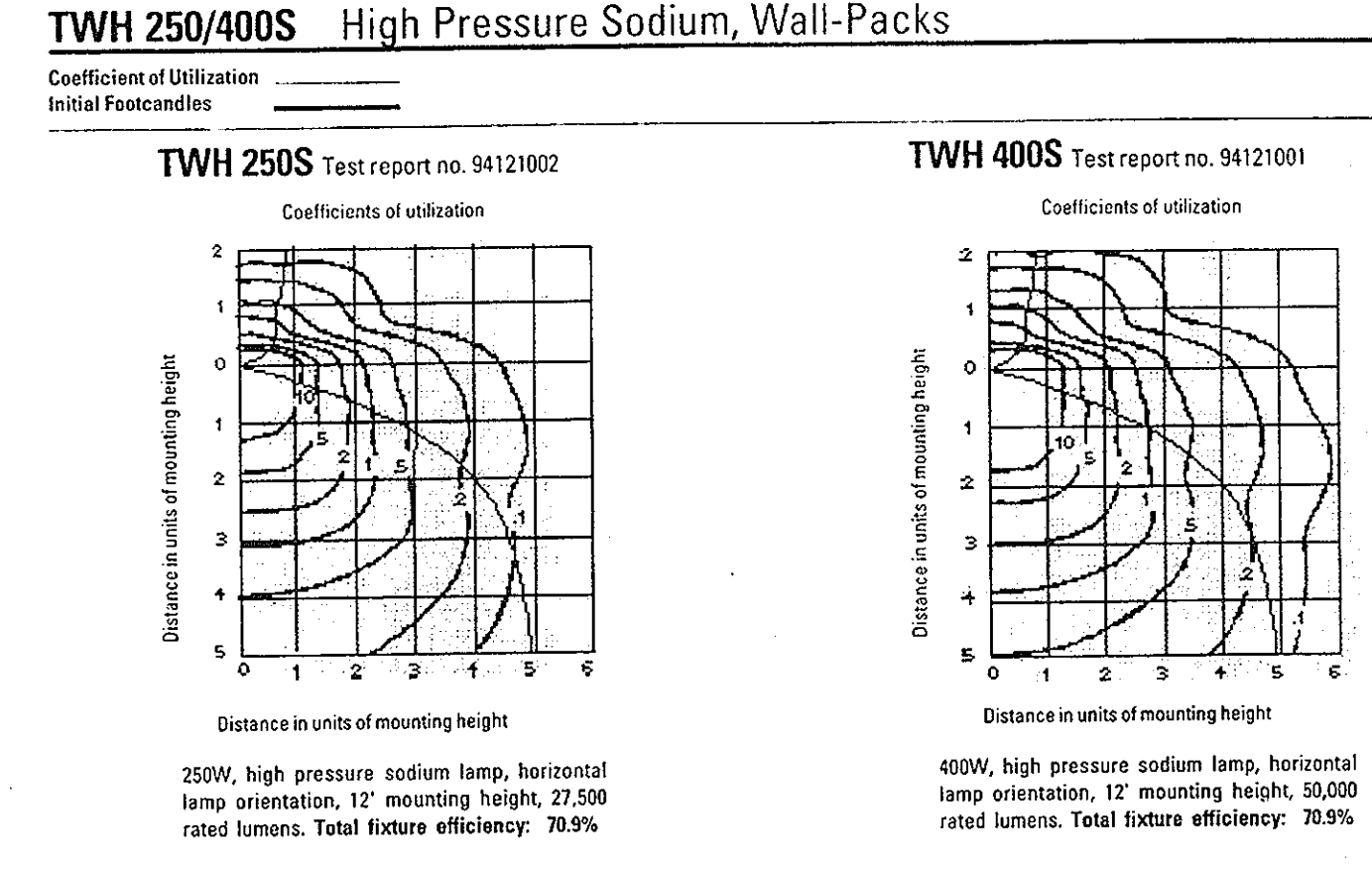
| TW Series | 250/400S | TB | LAP |
|----------------|----------|-----------|-----|
| Wattage/Source | 120 | 277 | 277 |
| Voltage | 120 | 277 | 277 |
| Lamp | LAP | Less Lamp | |

Options

| Option | Accessories |
|-----------------------------------|----------------------|
| Enhanced corrosion resistance | DNA Natural aluminum |
| Non-stick protective coating | DAL Black |
| Phosphoric salt - "butter type" | DSB Steel blue |
| Tamper proof latches | DMB Medium bronze |
| Full shade | DGC Charcoal grey |
| Wire-wrap (shipped separately) | DTG Tennis green |
| Vandal guard (shipped separately) | DBB Bright red |
| Emergency Circuit | DSZ Sandstone |
| | DWH White |

Example: TW 250/400S TB LAP
Height: 15'-3" (463cm)
Width: 16'-1" (490cm)
Depth: 8" (203cm)
Weight: 42 lbs (19 kg)

Outdoor Sheet: TW-S2 BM-210



JESSUP ASPHALT PLANT
"PARCEL A"
TAX MAP 48 GRID 8 PARCEL 191
ELECTION DISTRICT No. 6
HOWARD COUNTY, MD

GREENMAN - PEDERSEN, INC.
ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS
10977 GULFORD ROAD, ANNAPOLIS JUNCTION, MD 20701
WASH. (301) 470-2772 BALT. (410) 880-3055
FAX: (301) 490-2649 www.gpi-inc.com

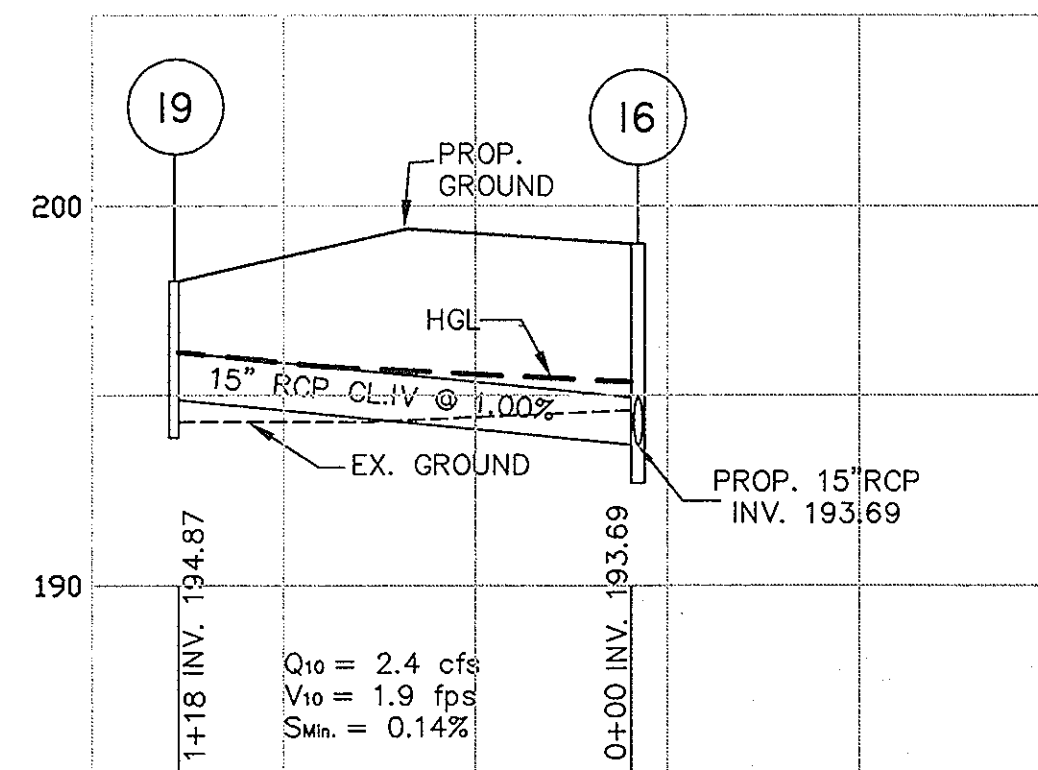
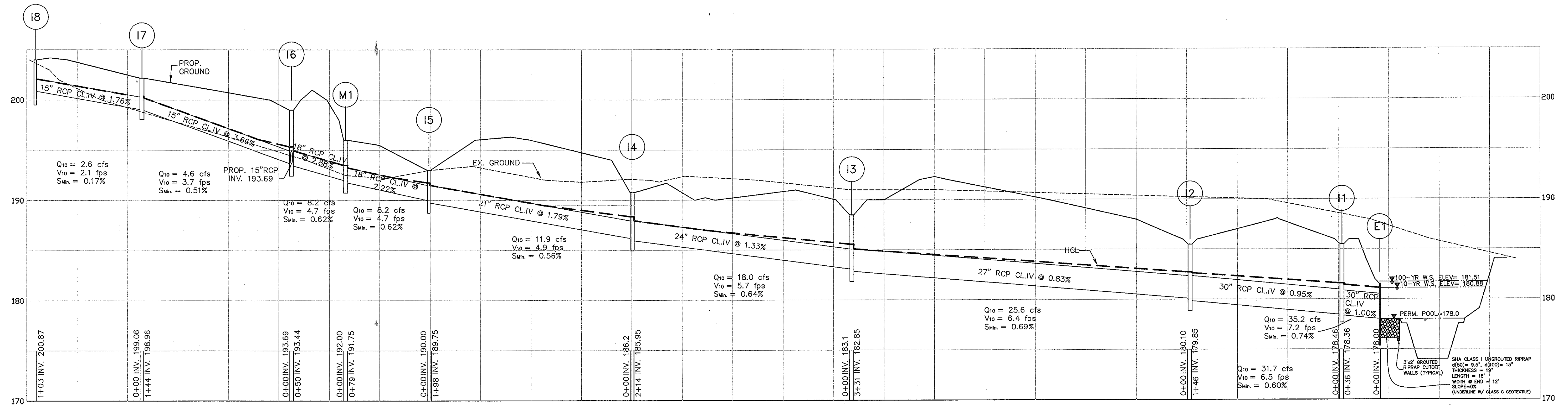
GPI

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF DEVELOPMENT ENGINEERING DIVISION

APPROVED: JESSUP ASPHALT PARTNERS, LP

DATE: 7/21/07

Scale: AS SHOWN
Proj. No.: 2005068
4 OF 16



PIPE SCHEDULE

| FROM STR. # | TO STR. # | SIZE | TYPE | LENGTH | REMARKS |
|-------------|-----------|------|-----------|--------|---------|
| 11 | E1 | 30" | RCP CL IV | 36' | PRIVATE |
| 12 | 11 | 30" | RCP CL IV | 146' | PRIVATE |
| 13 | 12 | 27" | RCP CL IV | 331' | PRIVATE |
| 14 | 13 | 24" | RCP CL IV | 214' | PRIVATE |
| 15 | 14 | 21" | RCP CL IV | 198' | PRIVATE |
| M1 | 15 | 18" | RCP CL IV | 79' | PRIVATE |
| 16 | M1 | 18" | RCP CL IV | 50' | PRIVATE |
| 17 | 16 | 15" | RCP CL IV | 144' | PRIVATE |
| 18 | 17 | 15" | RCP CL IV | 106' | PRIVATE |
| 19 | 18 | 15" | RCP CL IV | 118' | PRIVATE |
| TOTAL | | | | 1,422' | |

PIPE SUMMARY TABLE

| SIZE | TYPE | LENGTH |
|-------|-----------|--------|
| 30" | RCP CL IV | 182' |
| 27" | RCP CL IV | 331' |
| 24" | RCP CL IV | 214' |
| 21" | RCP CL IV | 198' |
| 18" | RCP CL IV | 129' |
| 15" | RCP CL IV | 388' |
| TOTAL | | 1,422' |

STRUCTURE SCHEDULE

| STR # | TYPE | TOP ELEV. | INV. OUT | DETAIL NO. |
|-------|-------------------|-----------|----------|------------|
| 11 | "E" | 185.5 | 178.67 | SD 4.21 |
| 12 | "E" | 185.5 | 179.85 | SD 4.21 |
| 13 | "E" | 188.5 | 182.85 | SD 4.21 |
| 14 | "E" | 190.7 | 185.95 | SD 4.21 |
| 15 | "D" | 193.0 | 189.75 | SD 4.39 |
| 16 | "S" | 199.0 | 193.44 | SD 4.22 |
| 17 | "S" | 202.20 | 198.96 | SD 4.22 |
| 18 | "S" | 203.70 | 200.50 | SD 4.22 |
| 19 | "S" | 198.0 | 194.87 | SD 4.22 |
| M1 | STD. PRECAST MH | 196.0 | 191.75 | G 5.11 |
| E1 | TYPE "C" END WALL | 181.5 | 178.00 | SD 5.21 |

Professional Certification:
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 13759, Expiration Date: 12/27/2007.

Date: No Revision Description
 APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF DEVELOPMENT ENGINEERING DIVISION
 CHIEF DIVISION OF LAND DEVELOPMENT
 DIRECTOR

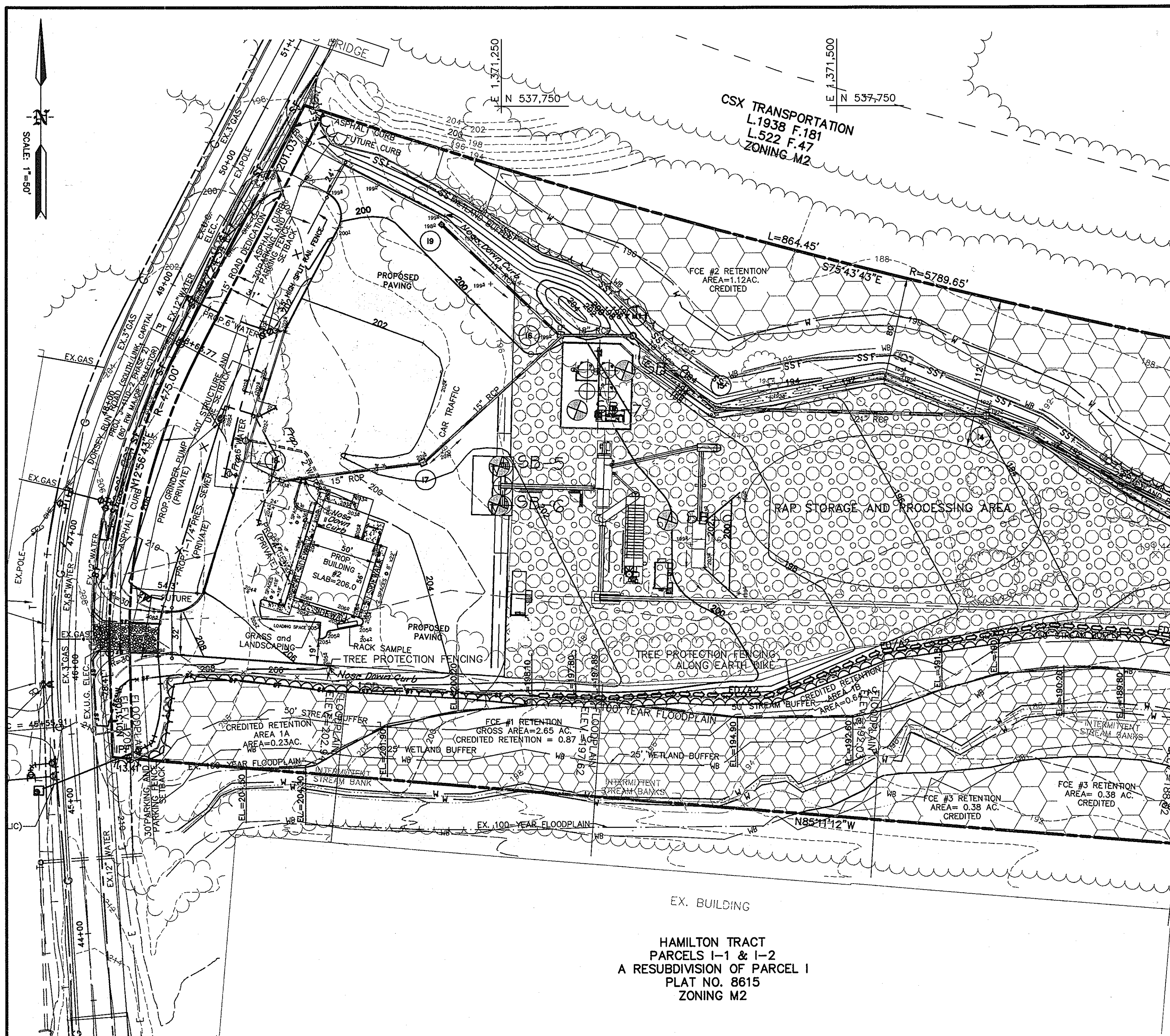
JESSUP ASPHALT PLANT
 "PARCEL A"
 TAX MAP 48 GRID 8 PARCEL 191
 ELECTION DISTRICT No. 6
 HOWARD COUNTY, MD

GPI GREENMAN-PEDERSEN, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS
 10977 GULFOND ROAD, ANNAPOLIS JUNCTION, MD 20701
 WASH. (301) 470-2772 BALT. (410) 880-3055
 FAX: (301) 490-2649 www.gpinet.com

OWNER
 JESSUP ASPHALT PARTNERS, LP
 638 LANCASTER AVE.
 MALVERN, PA: 19355
 ATTN: CURTIS HALL
 PHONE: (610) 560-7913
 FAX: (610) 560-7921

STORM DRAIN PROFILES

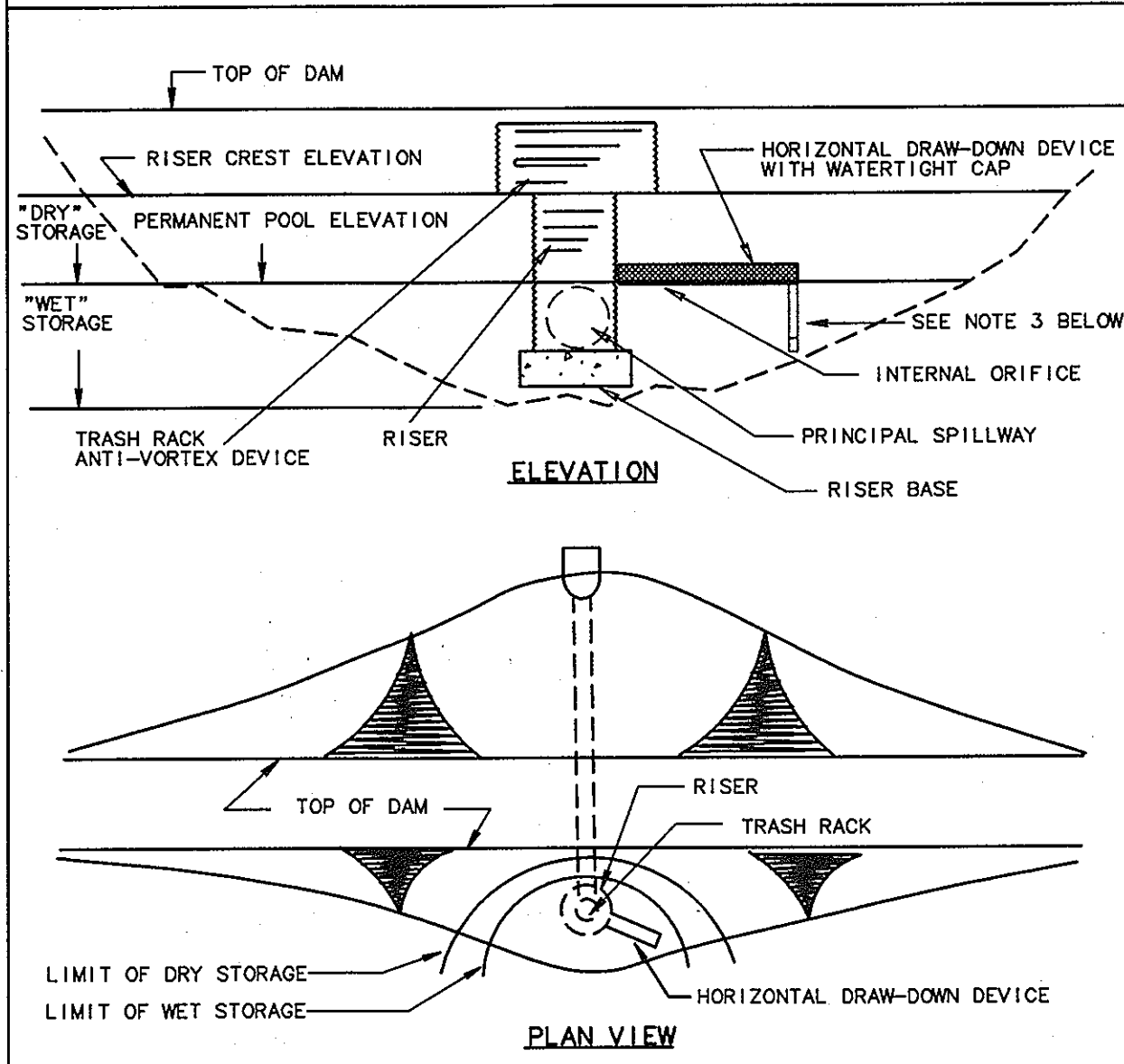
| | | |
|-----------|-----------------------|------------------|
| Des By LT | Scale Horiz: 1" = 50' | Proj No. 2005068 |
| Drn By LT | Vert: 1" = 5' | DRAWING NO. |
| Chk By | Date 07/27/07 | 5 OF 16 |
| Approved | | |



EX. BUILDING
**HAMILTON TRACT
 PARCELS I-1 & I-2
 A RESUBDIVISION OF PARCEL I
 PLAT NO. 8615
 ZONING M2**

MATCHLINE - SEE SHEET 7

**BASIN DRAWDOWN SCHEMATIC
 HORIZONTAL DRAW-DOWN DEVICE**



- Construction Specifications**
- The total area of the perforations must be greater than 2 times the area of the internal orifice.
 - The perforated portion of the draw-down device shall be wrapped with 1/2" hardware cloth and geotextile fabric. The geotextile fabric shall meet the specifications for Geotextile Class E.
 - Provide support of draw-down device to prevent sagging and floatation. An acceptable preventative measure is to stake both sides of draw-down device with 1" steel angle, or 1" by 4" square or 2" round wooden posts set 3' minimum into the ground then joining them to the device by wrapping with 12 gauge minimum wire.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE C-10-29 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

LEGEND

- 3-1" DIAM. HOLES 6" C/C
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- EARTH DIKE
- SILT FENCE
- SUPER SILT FENCE
- REMOVABLE PUMPING STATION
- EXISTING DRAINAGE DIVIDE
- PROPOSED DRAINAGE DIVIDE
- STONE CONSTRUCTION ENTRANCE
- PROPERTY LINE
- RIGHT-OF-WAY
- PROPOSED CURB
- PROPOSED WATER
- EXISTING TREE LINE
- PROPOSED TREE LINE
- LIMIT OF DISTURBANCE
- 100-YEAR FLOODPLAIN
- FLOODPLAIN EASEMENT
- WETLAND
- 25' WETLAND BUFFER
- 50' STREAM BUFFER
- STREAM LINE
- EXISTING GASLINE
- EXISTING WATER
- PROPOSED STORM DRAIN
- PUBLIC UTILITY EASEMENT
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED BUILDING LIGHT
- LOW POINT, HIGH POINT
- GRAVEL HATCH
- PAVING HATCH
- CONCRETE HATCH
- FENCE
- PROPOSED SODDED SWALE
- PROPOSED RIPRAP
- PROPOSED SOD MAINTENANCE ROAD
- CREDITED FOREST RETENTION AREA
- FOREST CONSERVATION SIGN
- TREE PROTECTION FENCE

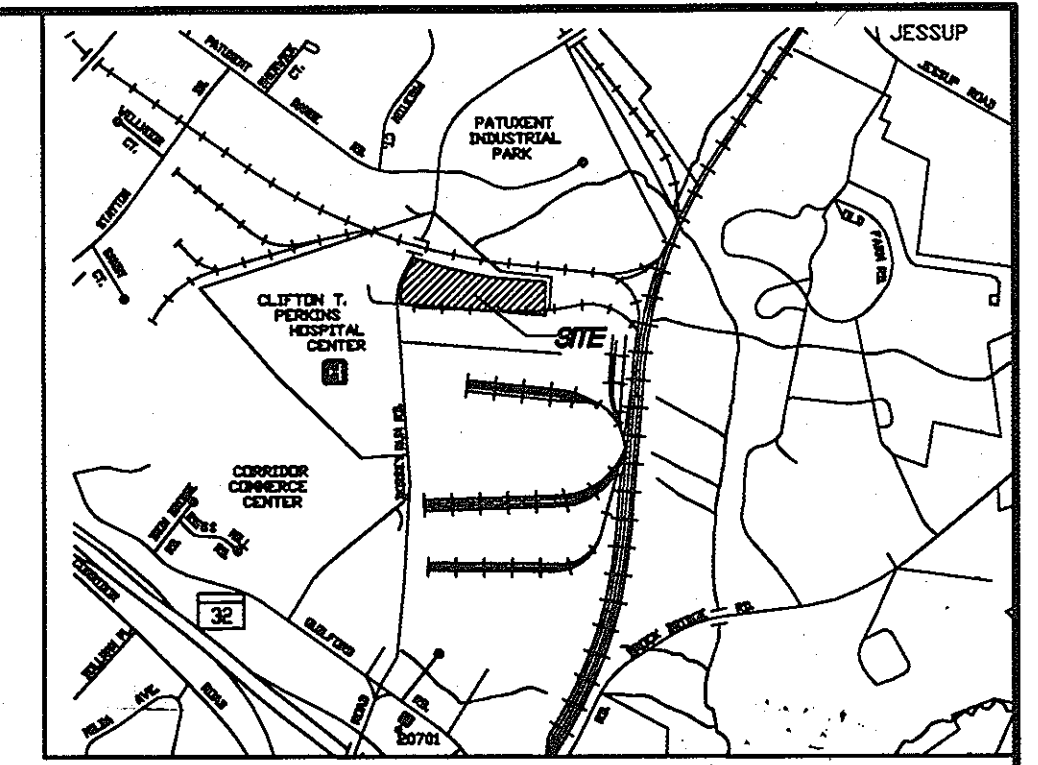
SECTION D-D

OWNER
 JESSUP ASPHALT PARTNERS, LP
 638 LANCASTER AVE.
 MALVERN, PA. 19355
 ATTN: CURTIS HALL
 PHONE: (610) 560-7913
 FAX: (610) 560-7921

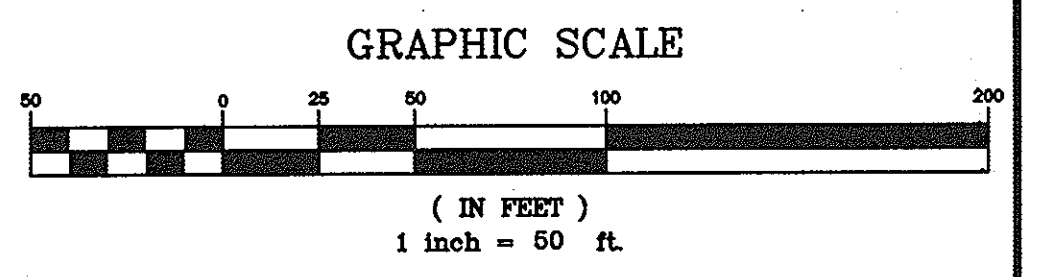
Sequence of Construction

- Obtain grading permit for construction.
- Notify Howard County Departments of Permits & Licenses, Grading and Sediment Control Inspections @ 410(3131855) at least 48 hours prior to beginning work.
- Install Stabilized construction entrance. Clear areas necessary for installation of perimeter Sediment Control Devices and install devices. Begin Basin/Pond excavation and construction. Pond Shall be used as a sediment basin.
 Note: No disturbance may begin until all basin materials are on site.
 - Install SF below pond.
 - Clear, strip and stockpile topsoil to be used for embankment and sitting area.
 - Grade pond, install embankment, principal spillway, and core trench. Install PSD.
 - Dewater pond during grading through use of a removable pumping station as per M.D.E. standard detail.
 - Place temporary draw-down device to use pond for sediment control purposes. (3 Weeks)
- With stabilization of erosion/sediment controls and permission of inspector, rough grade site within limits of disturbance. (1 Month)
- Once site has been Rough Graded, install proposed Water, Sewer and Storm Drain. (2 Weeks)
- Begin Building Construction. (2 Months)
- Install base paving for parking compound and stabilize. (2 Weeks)
- Upon completion of building Construction, Fine grade and permanently stabilize all remaining disturbed areas. Remove all old junk and new junk, trash, debris, and any other unnatural items. (1 Week)
- With the site complete and stabilized and with the approval of the sediment control inspector, Remove all remaining sediment control devices. (1 Day)

Professional Certification:
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 13759, Expiration Date: 12/27/2009.



VICINITY MAP
 SCALE: 1"=2000'
 A.D.C. MAP - PAGE 20, GRID G6, H6



| | | |
|---|---------|--|
| 2-26-09 | 1 | Eliminated BLDG #1, Revised Limit of Paving, Control Center, Screen, Storm Water Location & FFI Location |
| Date | No | Revision Description |
| BY THE ENGINEER: | | |
| I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. | | |
| | 8/10/07 | DATE |
| SIGNATURE OF ENGINEER DATE | | |
| BY THE DEVELOPER: | | |
| I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT. | | |
| | 8/10/07 | DATE |
| SIGNATURE OF DEVELOPER DATE | | |

| | | |
|--|---------|------|
| | 8/20/07 | DATE |
| U.S. NATURAL RESOURCES CONSERVATION SERVICE DATE | | |
| THIS DEVELOPMENT PLAN IS AS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. | | |
| | 8/20/07 | DATE |
| HOWARD S.C.D. DATE | | |

| | | |
|---|---------|------|
| APPROVED: DEPARTMENT OF PLANNING AND ZONING | | |
| | 9/7/07 | DATE |
| CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE | | |
| | 9/20/07 | DATE |
| CHIEF-DIVISION OF LAND DEVELOPMENT DATE | | |
| | 9/20/07 | DATE |
| DIRECTOR DATE | | |

**JESSUP ASPHALT PLANT
 PARCELS
 "PARCEL A"
 TAX MAP 48 GRID 8 PARCEL 191
 ELECTION DISTRICT No. 6
 HOWARD COUNTY, MD**

GREENMAN-PEDERSEN, INC.
GPI ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS 10977 GUILFORD ROAD, ANNAPOLIS JUNCTION, MD 20701 WASH. (301) 470-2772 BALT. (410) 880-3055 FAX: (301) 490-2649 www.gpinet.com

**EROSION AND
 SEDIMENT CONTROL
 CONTROL PLAN**

| | | | | | |
|--------|----|----------|-----------|------------|---------|
| Des By | RH | Scale | AS SHOWN | Proj No | 2005068 |
| Dwn By | RH | Date | 7/27/2007 | DRAWING NO | |
| Chk By | DJ | Approved | | 6 OF 16 | |

SDP-07-012

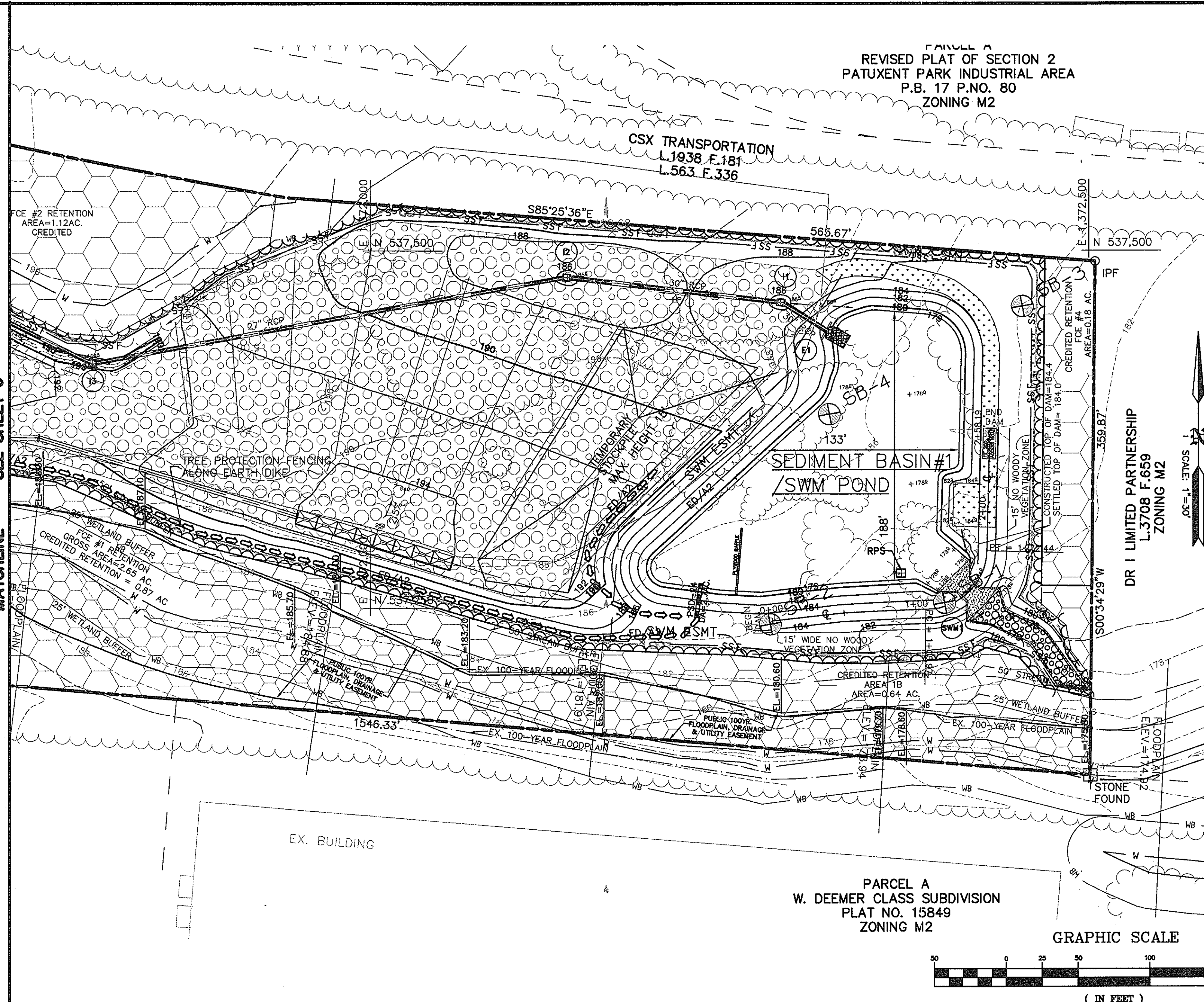


Figure 2 Temporary Sediment Basin Design Data Sheet

Computed By: EJD Date: 8-14-08 Checked By: D. Jackson Date: 2-2-07
 Project Name: JESSUP ASPHALT PLANT Basin No.: 1
 Location: DORSEY RUN ROAD

Total area draining to basin: 7.87 acres (ac.)

Basin Volume Design

1. Min. required vol. = 3600 ft³/ac. x 7.87 ac. drainage = 28,332 C.F.
2. Actual Volume of basin = 61,245 C.F.
3. Excavate 32,400 cu-ft (1200 cu. yd.) to obtain required capacity.
4. Vol. at dewatering elev. = 1800 ft³/ac. x 7.87 ac. = 14,166 C.F.
5. Vol. of basin at cleanout = 900 ft³/ac. x 7.87 ac. = 7,083 C.F.
6. Elevation corresponding to min. required volume of basin (riser crest elevation) 180.70 ft
7. Permanent Pool elevation 179.00 ft.
8. Distance from riser crest elevation to permanent pool elevation 1.70 ft.
9. Basin cleanout elevation 178.5 ft.
10. Distance from riser crest elevation to cleanout elevation 2.2 ft.

Spillway Design

11. Q_{pe} = 39 cfs (peak discharge from 10-year, 24-hour storm event, attach computations)

Principal Spillway (ps) (See Detail 11)

12. Design Principal Spillway (Barrel) Discharge, Design Q_{ps} = 39 cfs (min. 10% of 10 year peak or 8" diameter pipe)
13. H_{ps} = NA ft.; Barrel Length = NA ft.
14. Barrel Diam. NA in.; Note: Q_{ps} must equal or exceed Design Q_{ps}.
15. Riser Diameter NA in.; Riser Height NA ft.; Riser Head (h) = NA ft.
16. Trash Rack Diam. NA in.; Trash Rack Height = NA in.

NOTE: A table showing design data shall be included on the plan for each basin.

Figure 2 Temporary Sediment Basin Design Data Sheet

Emergency Spillway (Q_{em}) NA

17. Emergency Spillway cap., Q_{em} = Q_{pe} - Q_{ps} = cfs
18. Width ft.; Hp ft.
19. Entrance channel slope %
20. Exit channel slope %

Anti-Seep Collar Design (if Required) NA

21. y = ft.; z = ; Pipe slope = %; L_s = ft.
22. Use Collars, ft. - in.; projection = ft.

Design Elevations

23. Riser Crest = 180.70 ft
24. Design High Water = 181.70 ft
25. Emergency Spillway Crest = 179.00 ft
26. Min. settled top of dam = 184.4 ft
27. Permanent Pool = 179.00 ft
28. Bottom of Basin = 178.00 ft
29. Draw-down orifice invert = 179.00 ft

NOTE: THE LIFE LENGTH OF BASIN NOT TO EXCEED 3 (THREE) YEARS.

Surface Area Design

30. Min. basin surface Area; SA >= 0.0035 x Q_{pe} = 0.0035 x 39 cfs = 0.14 ac
- Surface area @ D.H.W. = 1.0 ac

Draw-down Device

31. Draw-down Device orifice diameter = 3.75 in. (from Table 3a)
32. A₁ = Total area of perforations >= 4A_a.
- A₁ = 0.307 sq-ft
- A₂ = Internal orifice area (from Table 11 or Computed)

* SEE BASIN PLANS
 NOTE: THE LIFE LENGTH OF BASIN NOT TO EXCEED 3 (THREE) YEARS.

LEGEND

- 192 --- EXISTING CONTOUR
- 192 --- PROPOSED CONTOUR
- 190+ PROPOSED SPOT ELEVATION
- EDVA2 EARTH DIKE
- SF SF SILT FENCE
- SSF SSF SUPER SILT FENCE
- RPS RPS REMOVABLE PUMPING STATION
- --- EXISTING DRAINAGE DIVIDE
- --- PROPOSED DRAINAGE DIVIDE
- --- STONE CONSTRUCTION ENTRANCE
- --- PROPERTY LINE
- --- RIGHT-OF-WAY
- --- PROPOSED CURB
- --- PROPOSED WATER
- --- EXISTING TREE LINE
- --- PROPOSED TREE LINE
- --- LIMIT OF DISTURBANCE
- --- 100-YEAR FLOODPLAIN
- --- FLOODPLAIN EASEMENT
- --- WETLAND
- --- 25' WETLAND BUFFER
- --- 50' STREAM BUFFER
- --- STREAM LINE
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- --- PROPOSED STORM DRAIN
- --- PUBLIC UTILITY EASEMENT
- --- PROPOSED SEWER
- --- PROPOSED SEWER MANHOLE
- --- LOW POINT, HIGH POINT
- --- GRAVEL HATCH
- --- PAVING HATCH
- --- CONCRETE HATCH
- --- FENCE
- --- PROPOSED SODDED SWALE
- --- PROPOSED RIPRAP
- --- PROPOSED SOD MAINTENANCE ROAD
- --- CREDITED FOREST RETENTION AREA
- --- FOREST CONSERVATION SIGN
- --- TREE PROTECTION FENCE

| SEDIMENT BASIN TABULATION | |
|---|-----------|
| EXISTING DRAINAGE AREA (AC) | 7.87 |
| PROPOSED DRAINAGE AREA (AC) | 7.87 |
| STORAGE REQUIRED (CU-FT) | 28,332 |
| STORAGE PROVIDED (CU-FT) | 61,245 |
| BOTTOM ELEVATION | 178 |
| WET STORAGE REQUIRED 14,166 CU-FT EL. FROM 178 TO 179.0 = 16,770 CU-FT PROVIDED | |
| DRY STORAGE 14,166 REQUIRED EL. FROM 179.5 TO 180.7 = 27,704 PROVIDED | |
| CLEANOUT ELEV. | 178.5 |
| WEIR CREST ELEV. | 180.7 |
| WEIR WIDTH | 12' |
| EMBANKMENT TOP ELEV. | 184.0 |
| BASIN DIMENSIONS | 133'X183' |
| SOIL TYPES | 31 |
| EXISTING GROUND AT WEIR | 152.0 |
| DI PIPE DEVEL. (FPS) | 1.0 |
| DI POST DEVEL. (FPS) | 0.4 |

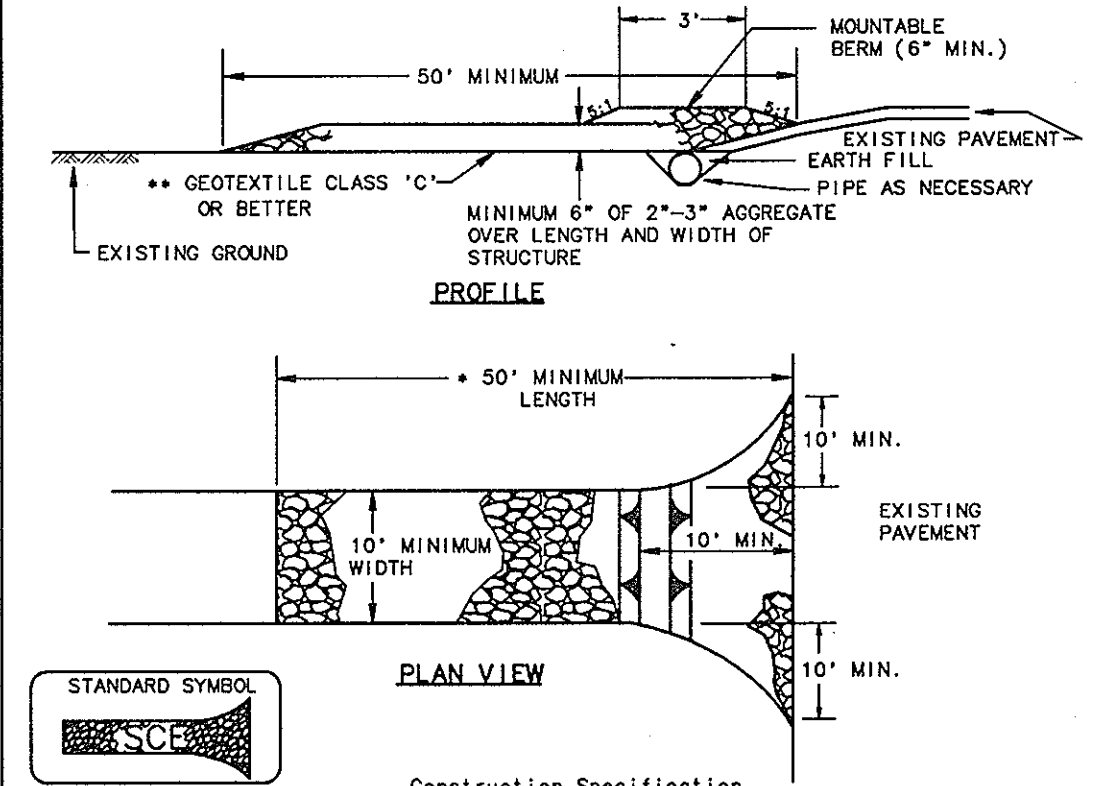
Professional Certification:
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 13759, Expiration Date: 12/27/2007.



OWNER
 JESSUP ASPHALT PARTNERS, LP
 638 LANCASTER AVE.
 MALVERN, PA. 19355
 ATTN: CURTIS HALL
 PHONE: (610) 560-7913
 FAX: (610) 560-7921

| Date | No | Revision Description |
|---|----|----------------------|
| | | |
| BY THE ENGINEER: | | |
| "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT." | | |
| <i>[Signature]</i> | | 8/6/07 |
| SIGNATURE OF ENGINEER | | DATE |
| BY THE DEVELOPER: | | |
| "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT." | | |
| <i>[Signature]</i> | | 8/10/07 |
| SIGNATURE OF DEVELOPER | | DATE |
| REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS. | | |
| <i>[Signature]</i> | | 8/30/07 |
| U.S. NATURAL RESOURCES CONSERVATION SERVICE | | DATE |
| THIS DEVELOPMENT PLAN IS AS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. | | |
| <i>[Signature]</i> | | 8/30/07 |
| HOWARD S.C.D. | | DATE |
| APPROVED: DEPARTMENT OF PLANNING AND ZONING | | |
| <i>[Signature]</i> | | 9/7/07 |
| CHIEF DEVELOPMENT ENGINEERING DIVISION | | DATE |
| <i>[Signature]</i> | | 9/20/07 |
| CHIEF DIVISION OF LAND DEVELOPMENT | | DATE |
| <i>[Signature]</i> | | 9/20/07 |
| DIRECTOR | | DATE |

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



1. Length - minimum of 50' (+30' for single residence lot).
2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.
3. 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.
4. 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.
5. 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.
6. 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.

STABILIZED CONSTRUCTION ENTRANCE

- Construction Specification
1. Length - minimum of 50' (+30' for single residence lot).
 2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.
 3. 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.
 4. 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.
 5. 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.
 6. 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 4 - PIPE SLOPE DRAIN

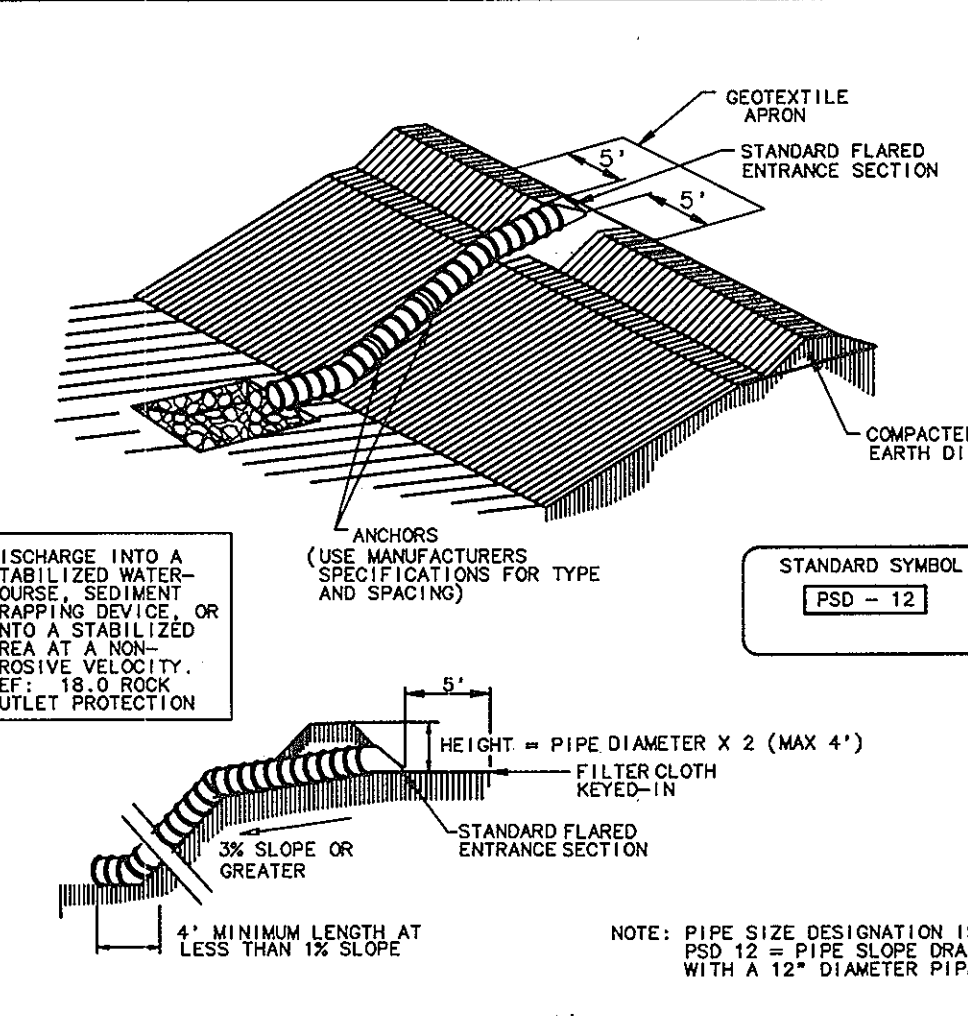


Table 6 Design Criteria for Pipe Slope Drain

| Size | Pipe/Tubing Diameter (D) in | Maximum Drainage Area (Acres) |
|------------|-----------------------------|-------------------------------|
| PSD-12 | 12 | 0.5 |
| PSD-18 | 18 | 1.5 |
| PSD-21 | 21 | 2.5 |
| PSD-24 | 24 | 3.5 |
| PSD-24 (2) | 24 | 9.0 |

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE B-6-4 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SEE MD 378

SEDIMENT BASIN CONSTRUCTION SPECIFICATIONS

1. Site Preparation: Perimeter sediment control devices must be installed prior to clearing and grubbing. Areas where the embankment is to be placed shall be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots or other objectionable material. The topsoil area shall not be cleared until completion of the dam embankment unless the pool area is to be used for agriculture. In order to facilitate clean-out and restoration, the pool area (measured at the top of the pipe spillway) shall be cleared of all brush, trees, and other objectionable materials.
2. Cut-off Trench: A cut-off trench shall be excavated along the centerline of earth fill embankments. The minimum depth shall be four feet. The cut-off trench shall extend up both abutments to the riser crest elevation. The minimum bottom width shall be two feet, but wide enough to permit operation of excavation and compaction equipment. The side slopes shall be no steeper than 1:1. Compaction requirements shall be the same as those for the embankment. The trench shall be dewatered during the backfilling-compaction operations. For dewatering see Section D.
3. Embankment: The fill material shall be taken from approved areas shown on the plans. It shall be clean mineral soil free of roots, woody vegetation, oversized stones, rocks, or other objectionable material. Relatively pervious materials such as sand or gravel (Unified Soil Classes GW, GP, SW & SP) or organic materials (Unified Soil Classes OL and OH) shall not be placed in the embankment. Areas on which fill is to be placed shall be scarified prior to placement of fill. The fill material shall contain sufficient moisture so that it can be formed by hand into a ball without crumbling. If water can be squeezed out of the ball, it is too wet for proper compaction. Fill material shall be placed in six-inch to eight-inch thick continuous lifts over the entire length of the fill. Compaction shall be obtained by routing and hauling the construction equipment over the fill so that the entire surface of each layer of the fill is traversed by at least one wheel or tread track of the equipment or by the use of a compactor. The embankment shall be constructed to an elevation 10 percent higher than the design height to allow for settlement.
4. Principal Spillway: Steel risers shall be securely attached to the barrel or barrel stub by welding the full circumference making a watertight structural connection. Concrete risers shall be poured with the principal spillway in place or precast with voids around the principal spillway filled with concrete or shrink proof grout for watertight connection. The barrel stub must be attached to the riser at the same percent (angle) of grade as the outlet conduit. The connection between the riser and the riser base shall be watertight. All connections between barrel sections must be achieved by approved watertight band assemblies. The barrel and riser shall be placed on a firm, smooth foundation of impervious soil as the embankment is constructed. Breaching the embankment to install the barrel is unacceptable. Pervious materials such as sand, gravel, or crushed stone shall not be used as backfill around the pipe or anti-seep collars. The fill material around the pipe spillway shall be placed in four inch lifts and hand compacted under and around the pipe to at least the same density as the adjacent embankment. A depth of 1.5 times the pipe diameter (min.) shall be backfilled over the principal spillway and hand compacted before crossing it with construction equipment.
5. Emergency Spillway: The emergency spillway shall be installed in undisturbed ground. The achievement of planned elevations, grades, design width, entrance and exit channel slopes are critical to the successful operation of the emergency spillway and must be constructed within a tolerance of 0.2 feet.
6. Vegetative Treatment: Stabilize the embankment in accordance with the appropriate vegetative Standard and Specifications immediately following construction. In no case shall the embankment remain unstabilized for more than seven (7) days. Once constructed, the top and outside face of the embankment shall be stabilized with seed and mulch. The remainder of the interior slopes should be stabilized (one time) with seed and mulch upon basin completion and monitored and maintained erosion free during the life of the basin.
7. Safety: Local requirements concerning fencing and signs shall be met, warning the public of hazards of soft sediment and floodwater.
8. Maintenance: Repair all damage caused by soil erosion and construction equipment at or before the end of each working day. Sediment shall be removed from the basin when it reaches the specified distance below the top of the riser as shown on the plan. This sediment shall be placed in such a manner that it will not erode from the site. The sediment shall not be deposited downstream from the embankment, adjacent to a stream or floodplain. Disposal areas must be stabilized.
9. Final Disposal: When temporary structures have served their intended purpose and the contributing drainage area has been properly stabilized, the embankment and resulting sediment deposits are to be leveled or otherwise disposed of in accordance with the approved sediment control plan. The proposed use of a sediment basin site will often dictate final disposition of the basin and any sediment contained therein. If the site is scheduled for future construction, then the basin material and trapped sediments must be removed and safely disposed of and the basin shall be backfilled with a structural fill. When the basin area is to remain open space, the pond may be pumped dry (using methods in Section D - Dewatering), graded, and back filled.
10. Conversion to Stormwater Management Structure: After permanent stabilization of all disturbed contributory drainage areas, temporary sediment basins, if initially built and certified to meet permanent standards, may be converted to permanent stormwater management structures. To convert the basin from temporary to permanent use, the outlet structure must be modified in accordance with approved stormwater management design plans. Additional grading may also be necessary to provide the required storage volume in the basin. Conversion can only take place after all disturbed areas have been permanently stabilized to the satisfaction of the inspection authority and storm drains have been flushed.

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| Des By | RH | Date | 7/27/2007 | DRAWING NO | |
| Chk By | DJ | Approved | | 7 OF 16 | |

APPENDIX C

VEGETATIVE STABILIZATION

Permanent and Temporary Seeding, Sodding and Mulching

Permanent or temporary vegetation shall be established within seven (7) days on the surface of all sediment control structures such as diversions, grade stabilization structures, berms, waterways, sediment control basins, and all slopes greater than 3 horizontal to 1 vertical (3:1) and within 14 days for all other disturbed or graded areas on the project site. Mulching may only be used on disturbed areas or temporary cover where vegetation is not feasible or where seeding cannot be completed because of weather.

II. Seeded Preparation and Seeding Application

Loosen the top layer of the soil to a depth of 3 to 5 inches by means of suitable agricultural equipment.

Section 21.0 Standards and Specifications for topsoil from the 1994 Standards and Specifications.

Soil tests shall be made on sites over five acres to determine the exact requirements for both lime and fertilizer. For sites under five acres, in lieu of a soil test, apply the following:

| | | | |
|------------|----------|----------------------|--------------|
| Fertilizer | Nitrogen | 1.5 lbs/sq. ft. | (65 lbs/ac) |
| | P205 | 3 lbs/sq. ft. | (130 lbs/ac) |
| | K20 | 100 lbs/1000 sq. ft. | (2 tons/ac) |

For low maintenance areas apply 150 lbs/ac ureaform fertilizer (38-0-0) at 3.5 lbs/1000 sq. ft. in addition to the above fertilizer at the time of seeding.

Ground Limestone 2 tons/ac

V. Sediment Control Practice Seeding
Select a seeding mixture from tables 25 or 26 in Section G of the 1994 Standards and Specifications. Document seeding on the erosion and sediment control plan using appropriate chart below. Note: If sediment control practices are in for longer than 12 months, permanent seeding is required.

V. Temporary/Permanent Seeding Mixtures and Rates
Select a seeding mixture from appropriate table 25 or 26 in Section G of the 1994 Standards and Specifications. Document seeding on the erosion and sediment control plan using appropriate chart below.

PERMANENT SEEDING SUMMARY

| Seed Mixture (For Hardness Zone 7a-) | | | | | Fertilizer Rate (10-20-20) | | | Lime Rate |
|--------------------------------------|---|--------------------------|--|----------------|------------------------------|-----------------------------|-----------------------------|-------------------------------|
| No. | Species | Application Rate (lb/ac) | Seeding Dates | Seeding Depths | N | P205 | K20 | |
| 3 | TALL FESCUE (90%) PERNANIAL Ryegrass (10%) KENTUCKY BLUEGRASS (5%) | 125 15 10 | 8/15 - 11/15 3/1 - 5/15 8/15 - 11/15 | 1/4" - 1/2" | | | | |
| 7 | TALL FESCUE (80%) MEADOW LORRYGRASS (20%) SERPENTINE DOGGRASS (15%) | 110 3 20 | 3/1 - 11/15 | 1/4" - 1/2" | 90 lb/ac (2.0 lb/1000 st) | 175 lb/ac (4 lb/1000 st) | 175 lb/ac (4 lb/1000 st) | 2 tons/ac (100 lb/1000 st) |
| 10 | TALL FESCUE (80%) HARD FESCUE (20%) | 120 30 | 3/1 - 5/15 8/15 - 11/15 | 1/4" - 1/2" | | | | |

TEMPORARY SEEDING SUMMARY

| Seed Mixture (For Hardness Zone 7a-) | | | | | Fertilizer Rate (10-10-10) | | | Lime Rate |
|--------------------------------------|-------------------------|--------------------------|----------------------------|----------------|------------------------------|------|-----|-------------------------------|
| No. | Species | Application Rate (lb/ac) | Seeding Dates | Seeding Depths | N | P205 | K20 | |
| | RYE PLUS FOXTAIL MILLET | 150 lb./ac. | 2/1 - 10/15 | 1" | | | | |
| | ANNUAL RYEGRASS | 50 lb./ac. | 7/1 - 4/30 8/15 - 11/15 | 1/4" - 1/2" | 600 lb/ac (15 lb/1000 st) | | | 2 tons/ac (100 lb/1000 st) |
| | FOXTAIL MILLET | 50 lb./ac. | 5/1 - 8/14 | 1/2" | | | | |

VI. Turfgrass Establishment
This includes lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance. Areas to receive seed shall be tilled by disking or by other approved methods to a depth of 3 to 5 inches, leveled and raked to prepare a proper seedbed. Stones and debris over 1 1/2 inches in diameter shall be removed. The resulting seedbed shall be in such condition that future mowing of grasses will pose no difficulty. Use certified material and choose a turfgrass mixture from page C-20 of the 1994 Standards and Specifications or select from the list in the most current University of Maryland publication, Agronomy Mimeo #77, "Turfgrass Cultivar Recommendations for Maryland". See mimeo at end of this section.

VII. Mulching
All seedings require mulching. Also mulch during non-seeding dates until seeding can be done. Mulch shall be unrotted, unchopped, small grain straw applied at a rate of 2 tons/acre or 90 lbs/1000 sq. ft. (2 bales). If a mulch anchoring tool is used, apply 2.5 tons/acre. Mulch materials shall be relatively free of all kinds of weeds and shall be completely free of prohibited noxious weeds. Spread mulch uniformly, mechanically or by hand, to a depth of 1-2 inches. Mulch anchoring shall be accomplished immediately after mulch placement to minimize loss by wind or water. This may be done by mulch nettings, mulch anchoring tool, wood cellulose fiber or liquid mulch binders.

Apply wood cellulose fiber at a dry weight of 1,500 lbs/acre. If mixed with water, use 50 lbs. of wood cellulose fiber per 100 gallons of water.
Liquid binder should be applied heavier at the edge, where wind catches mulch in valleys, and on crest of banks. The remainder of the area should appear uniform after binder application. Apply rates recommended by the manufacturer to anchor and mulch. Staple light weight, plastic netting over the mulch according to manufacturer's recommendations.

VIII. Sodding
Class of turfgrass sod shall be Maryland or Virginia State certified, or Maryland or Virginia State approved sod. Sod shall be harvested, delivered and installed within a period of 36 hours. Sod is to be laid with the long edges parallel to the contour using staggered joints with all ends tightly butted and not overlapping. Sod shall be rolled and thoroughly watered after installation. Daily watering to maintain 4 inch depth of moisture for the first week is required in the absence of rainfall. Sod is not to be applied on frozen ground.

IX. Maintenance
A. Irrigate - Apply minimum 1" of water every 3 to 4 days depending on soil texture, when soil moisture becomes deficient to prevent loss of stand of protective vegetation.
B. Repairs - If stand performs during 40% and 94% ground coverage, overseed and fertilize using half of the rates originally applied. If stand performs less than 40% coverage, reestablish stand following original rates and procedures.

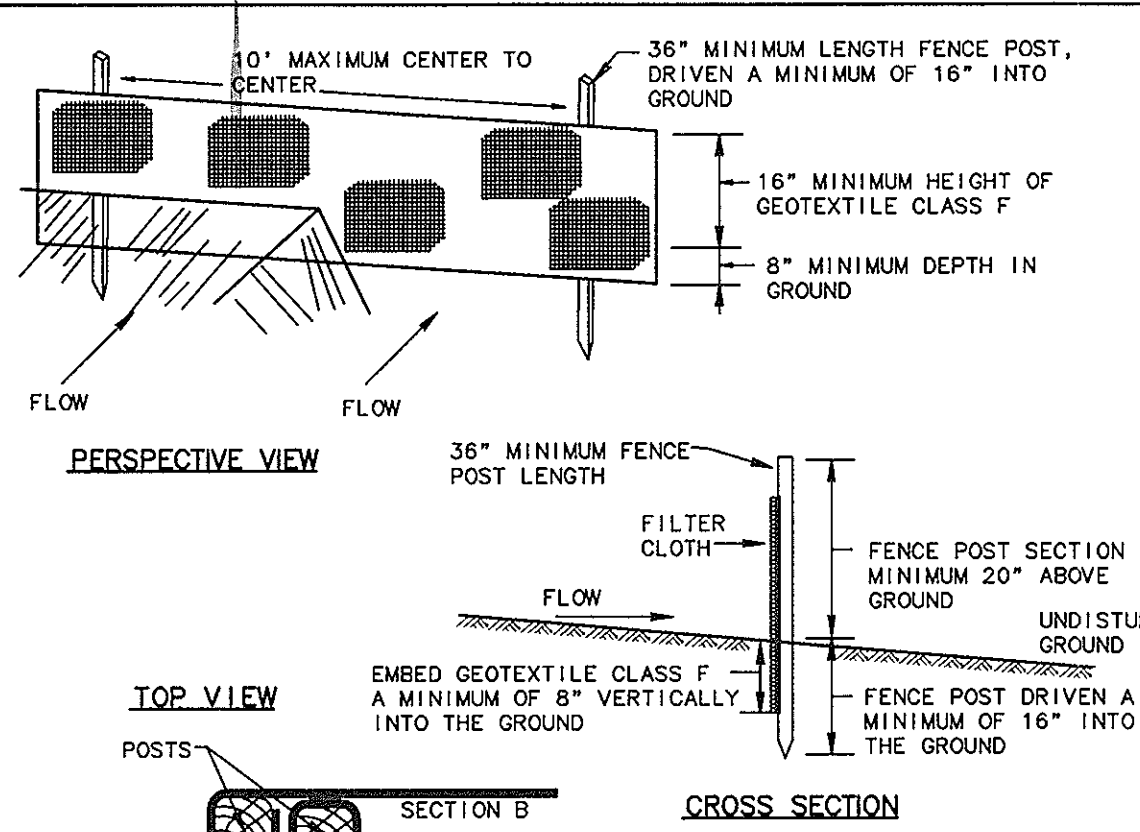
Note: Use of this information does not preclude meeting all of the requirements of the 1994 Maryland Standards and Specifications for Soil Erosion and Sediment Control Vegetative Practices.

Table 28 Stone Size

| SIZE RANGE | D ₅₀ | D ₁₀₀ | AASHTO |
|------------|-----------------|------------------|--------|
| NUMBER 57* | 3/8" - 1 1/2" | 1/2" | M-43 |
| NUMBER 1 | 2" - 3" | 2 1/2" | M-43 |
| CLASS I | 4" - 7" | 5 1/2" | N/A |
| CLASS II | N/A | 15" | N/A |
| CLASS III | N/A | 24" | N/A |
| CLASS IV | N/A | 24" | N/A |

* This classification is to be used on the inside face of stone outlets and check dams.
** This classification is to be used when ever small rip-rap is required. The State Highway Administration designation for this Stone For Gabions (905.01.04).

DETAIL 22 - SILT FENCE



Construction Specifications

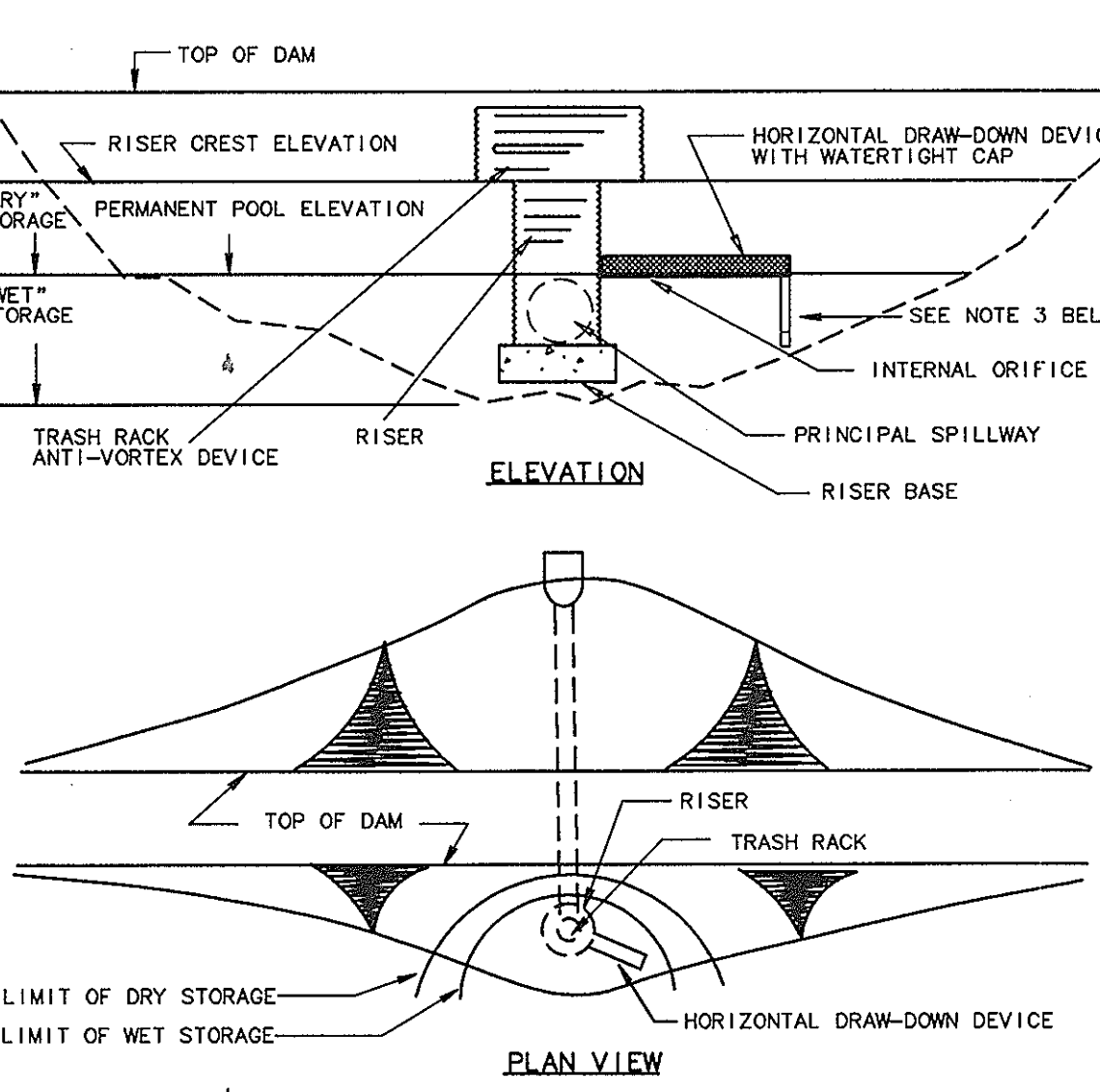
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per linear 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 ft²/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.

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BASIN DRAWDOWN SCHEMATIC HORIZONTAL DRAW-DOWN DEVICE

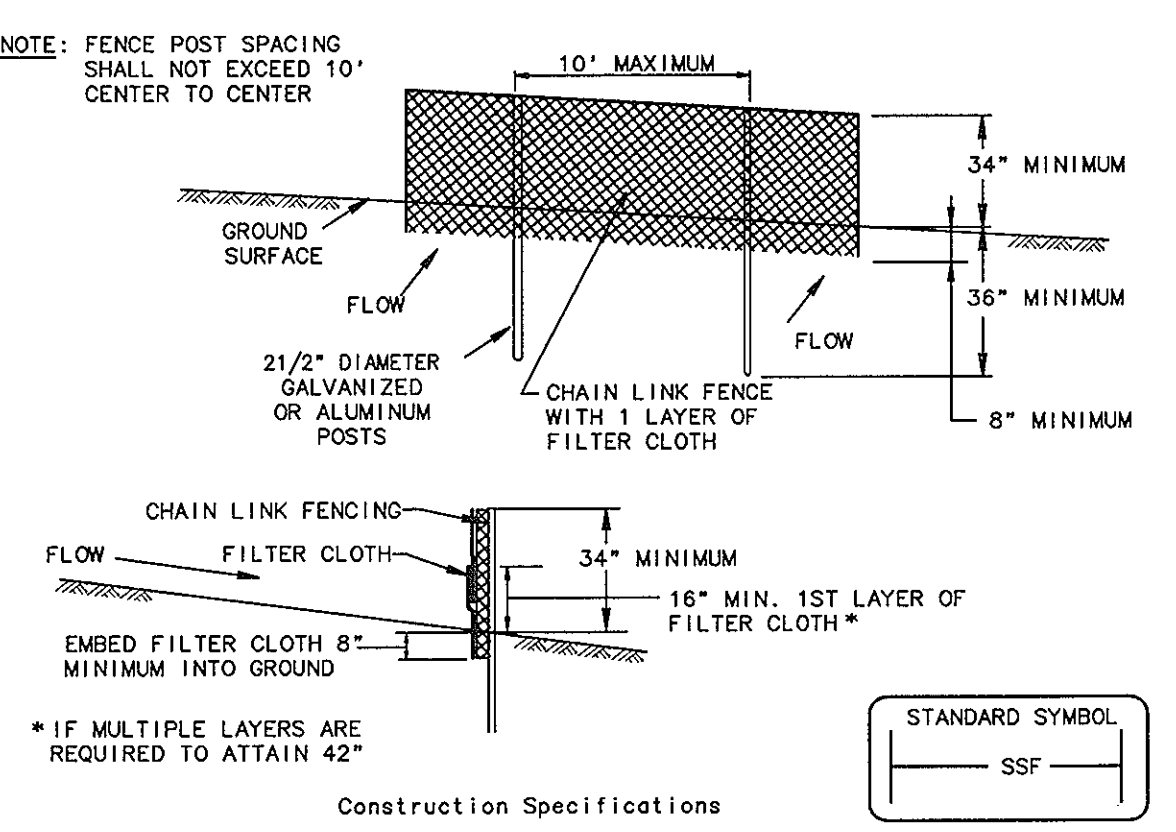


Construction Specifications

- The total area of the perforations must be greater than 2 times the area of the internal orifice.
- The perforated portion of the draw-down device shall be wrapped with 1/2" hardware cloth and geotextile fabric. The geotextile fabric shall meet the specifications for Geotextile Class E.
- Provide support of draw-down device to prevent sagging and floatation. An acceptable preventative measure is to stake both sides of draw-down device with 1" steel angle, or 1" by 4" square or 2" round wooden posts set 3' minimum into the ground then joining them to the device by wrapping with 1/2" geotextile fabric.

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DETAIL 33 - SUPER SILT FENCE

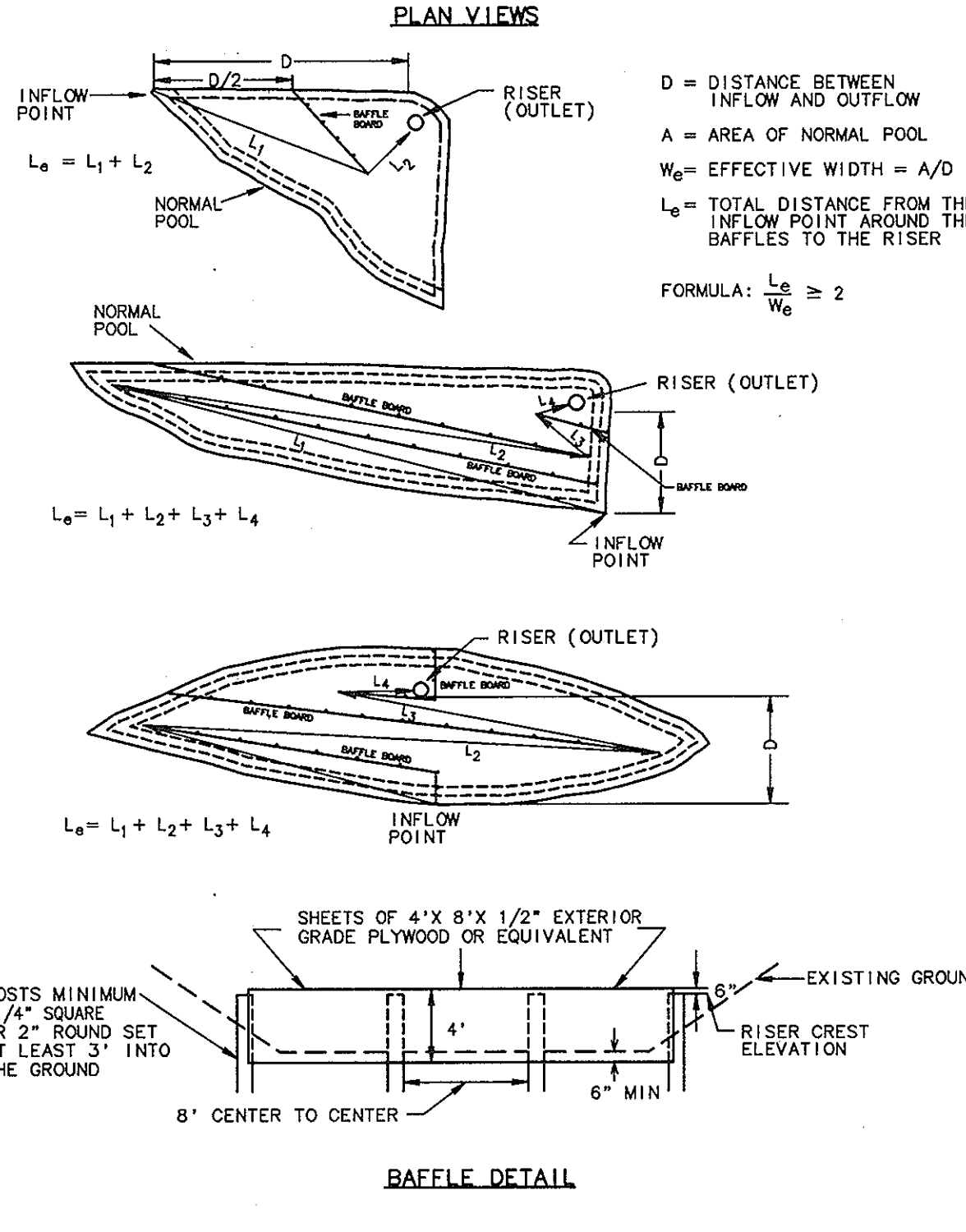


Construction Specifications

- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 8" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
- Filter cloth 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:

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DETAIL 18 - SEDIMENT BASIN BAFFLES



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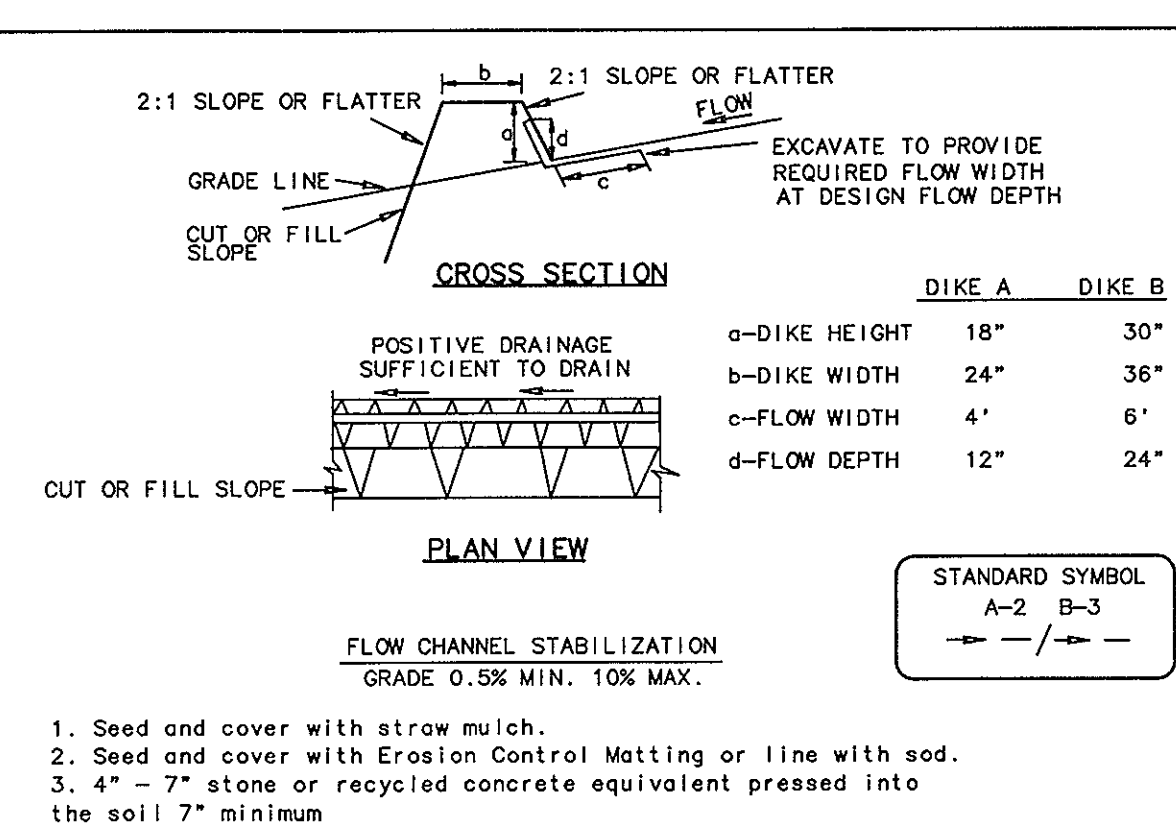
HOWARD SOIL CONSERVATION DISTRICT PERMANENT SEEDING NOTES

All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

7. Site Analysis:
Total Area of Site 13.82 Acres
Area Disturbed 9.05 Acres
Area to be roofed or paved 6.92 Acres
Area to be vegetatively stabilized 0.95 Acres
Total Cut 330 Cu. Yds.
Total Fill 2500 Cu. Yds.
Offsite waste/borrow area location: Savage Quarry GP04011

- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- All sites with disturbed areas in excess of 2 acres, approval of the erosion agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each work day, whichever is shorter.

DETAIL 1 - EARTH DIKE



Construction Specifications

- All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
- Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
- Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.
- All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
- The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
- Fill shall be compacted by earth moving equipment.
- All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
- Inspection and maintenance must be provided periodically and after each rain event.

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| U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE | PAGE A - 1 - 6 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION |
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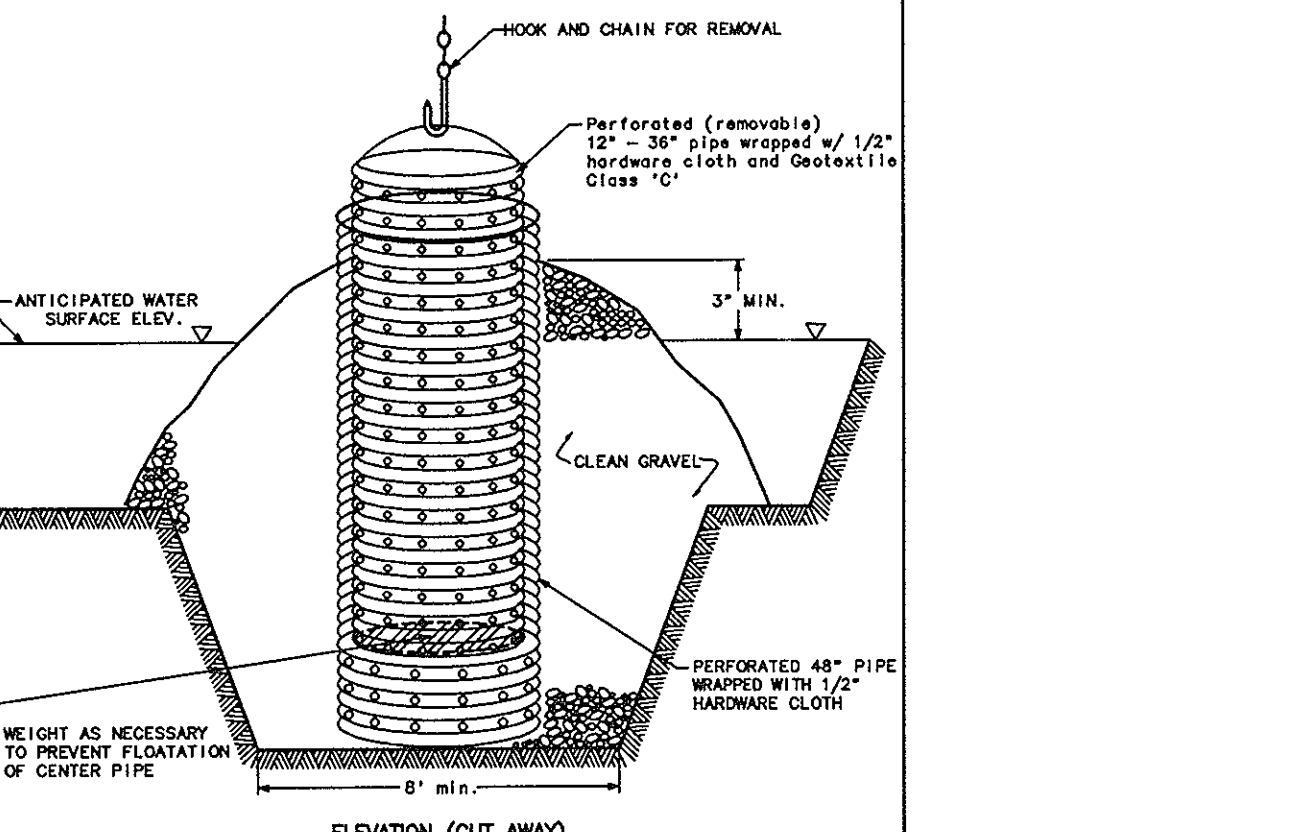
PIPE SLOPE DRAIN

Construction Specifications - Pipe Slope Drain

- The Pipe Slope Drain (PSD) shall have a slope of 3 percent or steeper.
- The top of the earth dike over the inlet pipe shall be at least 2 times the pipe diameter measured at the invert of the pipe.
- Flexible tubing is preferred. However, corrugated metal pipe or equivalent PVC pipe can be used. All connections shall be watertight.
- A flared end section shall be attached to the inlet end of pipe with a watertight connection. Filter cloth shall be placed under the inlet of the pipe slope drain and shall extend out 5' from the inlet. The filter cloth shall be "keyed in" on all sides.
- The Pipe Slope Drain shall be securely anchored to the slope by staking at the grommets provided. Spacing for anchors shall be as provided by manufacturer's specification. In no case shall less than two (2) anchors be provided, equally spaced along the length of pipe. These details should be provided by pipe suppliers.
- The soil around and under the pipe and end section shall be hand tamped in 4 inch lifts to the top of the earth dike.
- All pipe connections shall be watertight.
- Whenever possible where a PSD drains an unstabilized area, it shall outlet into a sediment trap or basin. If this is not possible then the slope drain will discharge into a stable conveyance that leads to a sediment trap or basin. When discharging into a trap or basin the PSD shall discharge at the same elevation as the wet pool elevation. The discharge from the PSD must be as far away from the sediment control outlet as possible.
- Inspection and any required maintenance shall be performed periodically and after each rain event.
- The inlet must be kept open at all times.

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DETAIL 20A - REMOVABLE PUMPING STATION



Construction Specifications

- The outer pipe should be 48" dia. or smaller. In any case, be at least 4" greater in diameter than the center pipe. The perforated pipe shall be wrapped with 1/2" hardware cloth and geotextile Class C.
- After installing the outer pipe, backfill around outer pipe with 2" aggregate or clean gravel.
- The inside stand pipe (center pipe) should be constructed by perforating a corrugated or PVC pipe between 12 and 30" in diameter. The perforation shall be 1/2" dia. x 1/2" or 1" diameter holes on center. The center pipe shall be wrapped with 1/2" hardware cloth and geotextile Class C.
- The center pipe should extend 12" to 18" above the anticipated water surface elevation or riser crest elevation when dewatering a basin.

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| U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE | PAGE D - 18 - 5 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION |
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OWNER
JESSUP ASPHALT PARTNERS, LP
638 LANCASTER AVE.
MALVERN, PA. 19355
ATTN: CURTIS HALL
PHONE: (610) 560-7913
FAX: (610) 560-7921

| Date | No | Revision Description |
|------|----|----------------------|
|------|----|----------------------|

BY THE ENGINEER:
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Signature: [Signature]
Date: 8/10/07

BY THE DEVELOPER:
"I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

Signature: Curt Hall
Date: 8/10/07

REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS.

Signature: [Signature]
Date: 8/30/07

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF-DEVELOPMENT ENGINEERING DIVISION
Date: 9/7/07

Signature: [Signature]
Date: 9/10/07

Signature: [Signature]
Date: 9/28/07

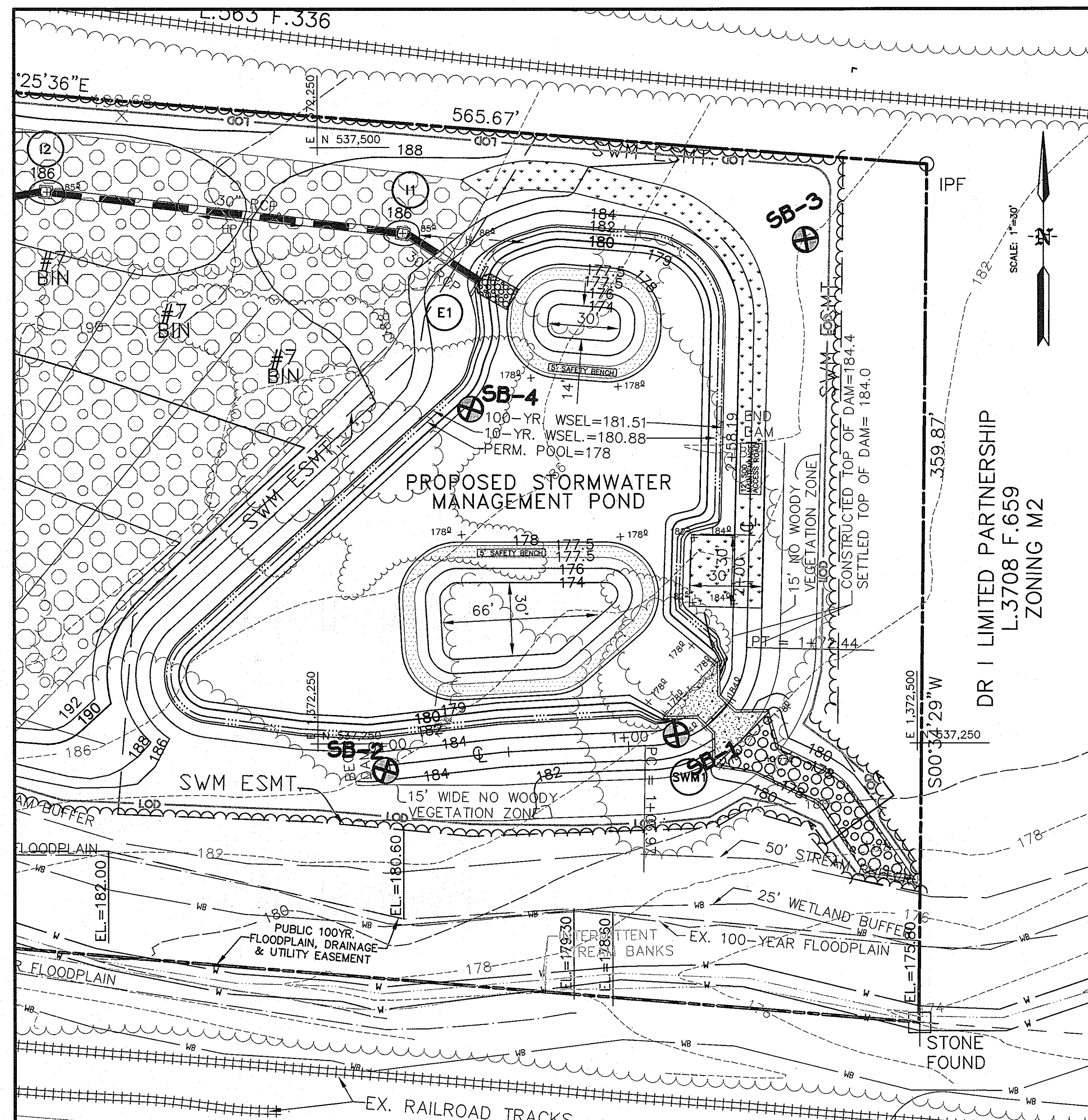
JESSUP ASPHALT PLANT PARCELS "PARCEL A"
TAX MAP 48 GRID 8 PARCEL 191
ELECTION DISTRICT No. 6
HOWARD COUNTY, MD

GREENMAN - PEDERSEN, NC.
ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS 10877 GUILFORD ROAD, ANNAPOLIS JUNCTION, MD 20701 WASH. (301) 470-2772 BALT. (410) 880-3055 FAX: (301) 490-2649
www.gpinet.com

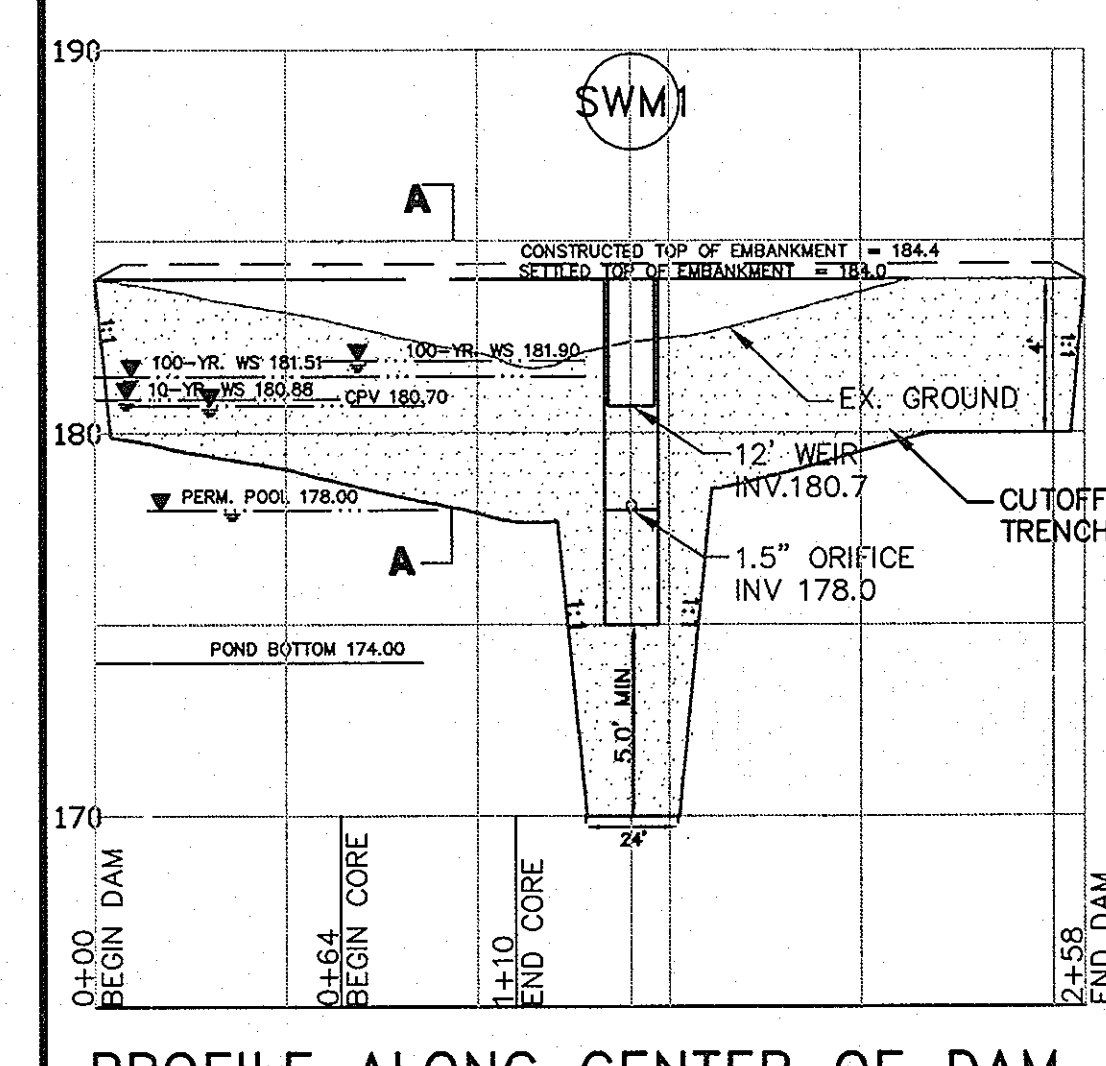
EROSION AND SEDIMENT CONTROL NOTES & DETAILS

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| Des By | RH | Scale | AS SHOWN | Proj No | 2005068 |
| Dwn By | RH | Date | 7/27/2007 | DRAWING NO | |
| Chk By | DJ | Approved | | | 8 OF 16 |

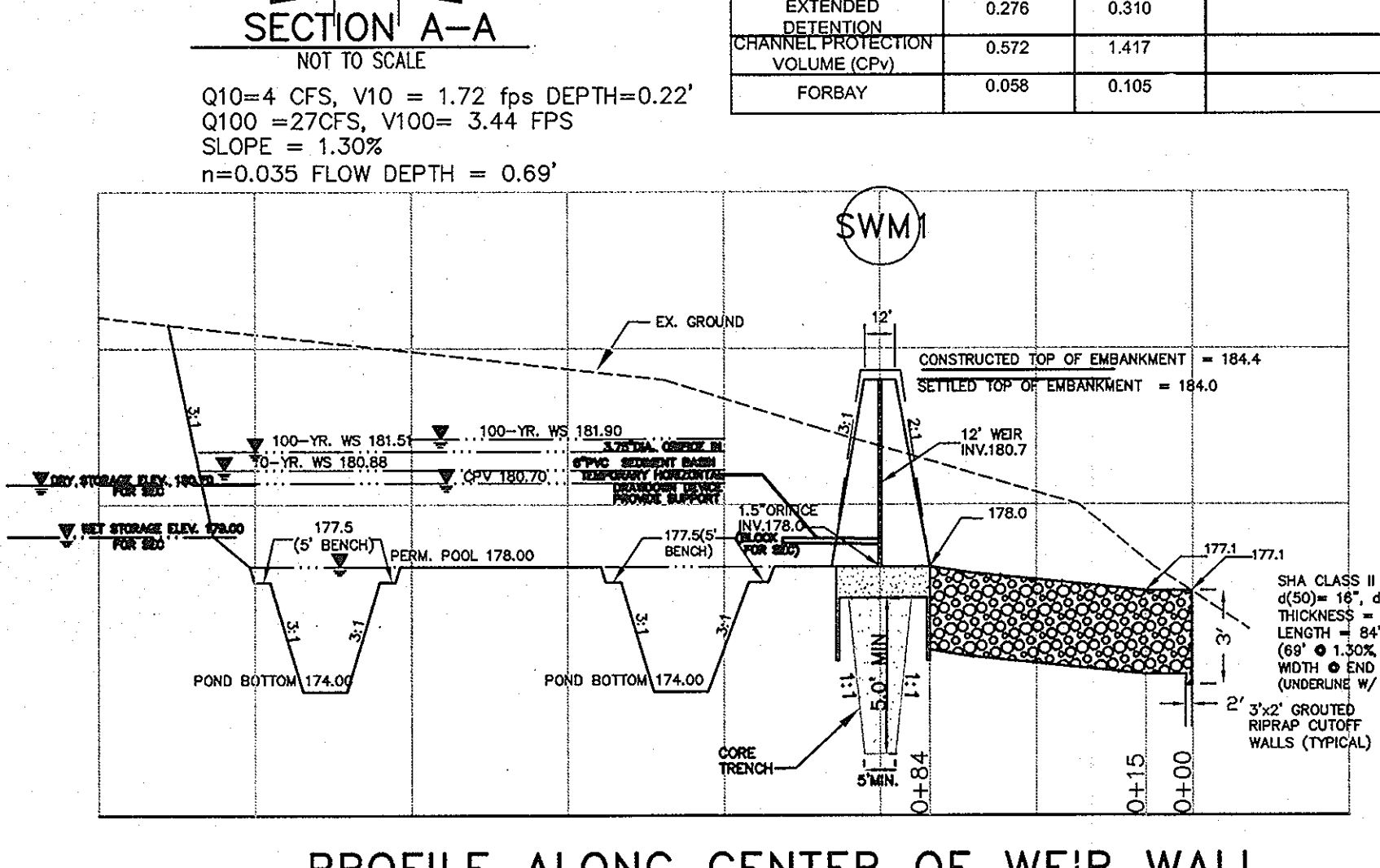
SDP-07-012



PLAN VIEW
SCALE: 1" = 30'



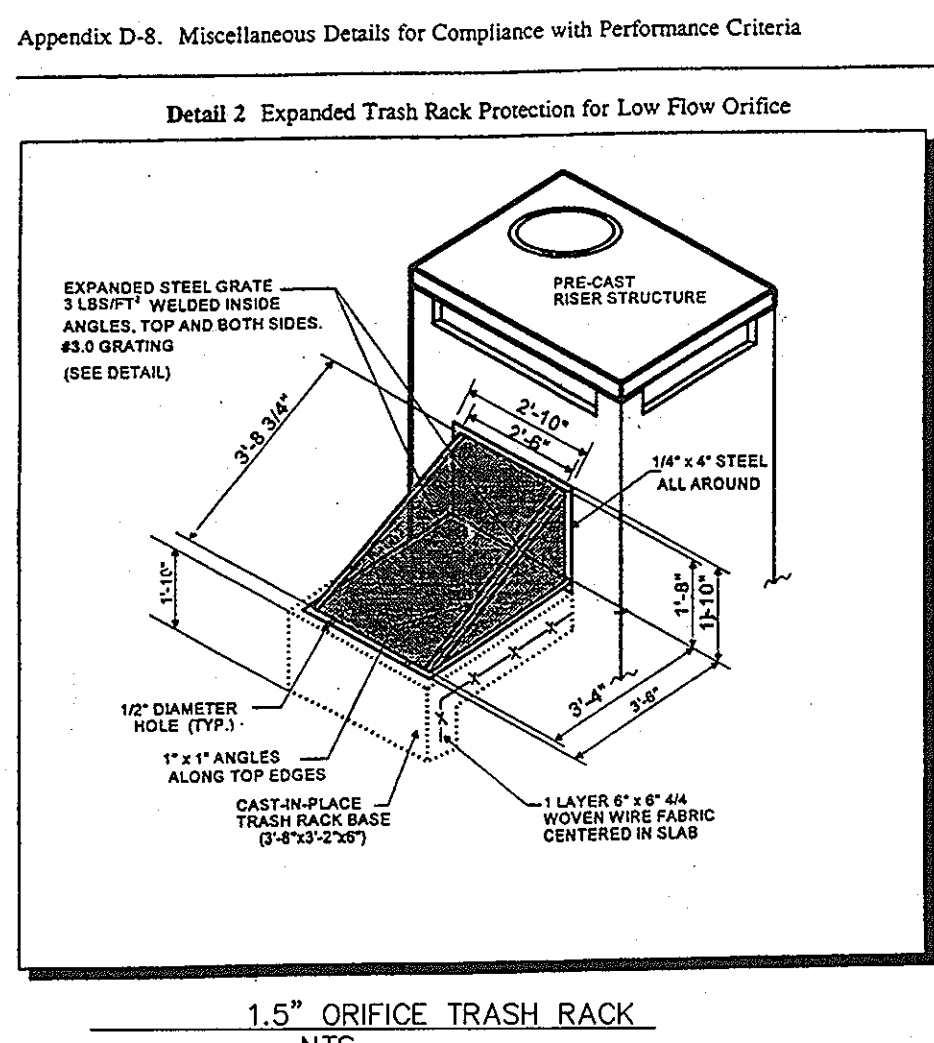
PROFILE ALONG CENTER OF DAM



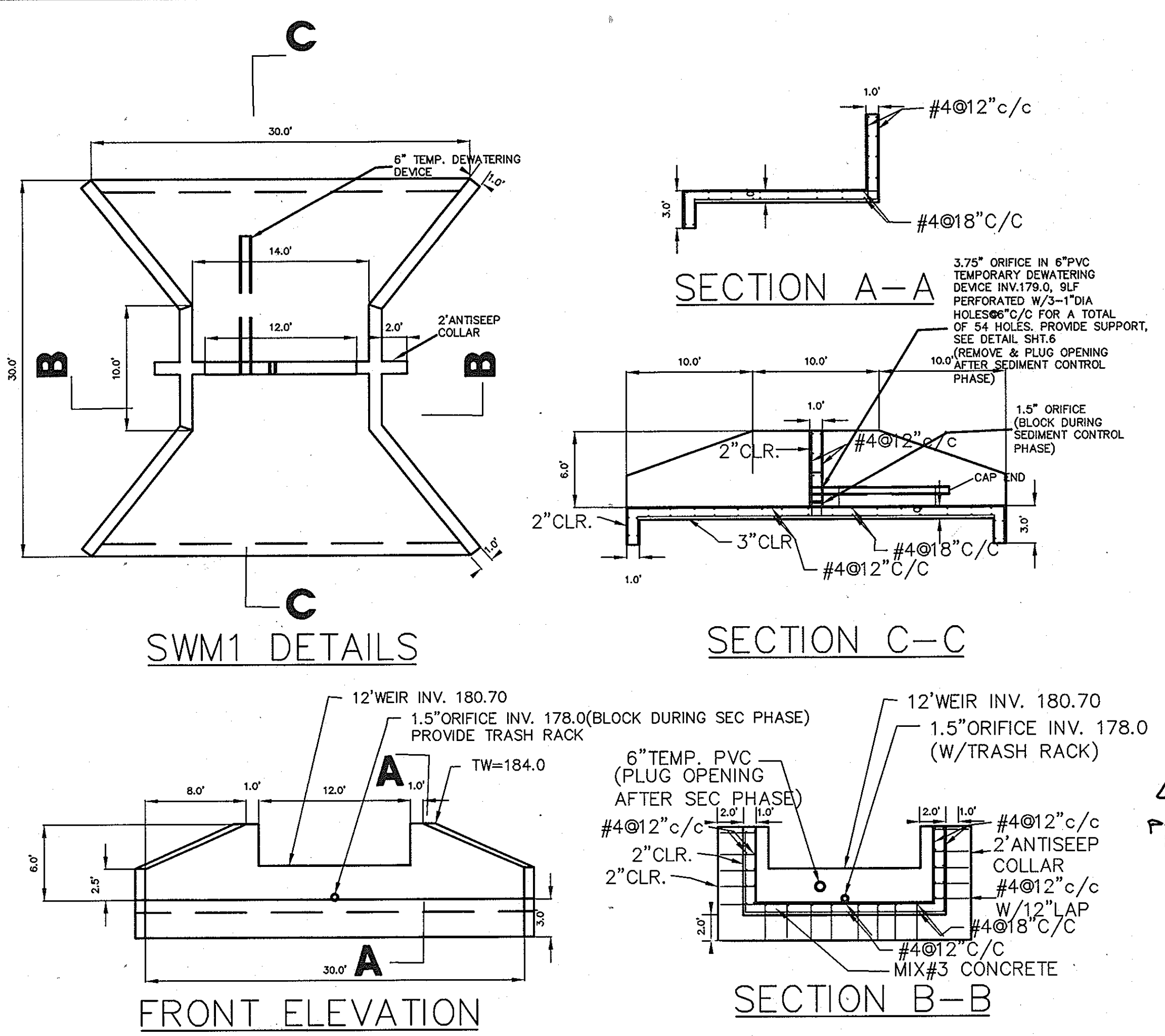
PROFILE ALONG CENTER OF WEIR WALL

PROFILE SCALE H: 1" = 50' V: 1" = 5'

| REQUIREMENT | VOLUME (AC. FT.) | NOTES |
|--------------------|------------------|-------|
| WATER QUALITY | 0.552 | 0.664 |
| EXTENDED RETENTION | 0.276 | 0.310 |
| CHANNEL PROTECTION | 0.572 | 1.417 |
| FORBAY | 0.058 | 0.105 |

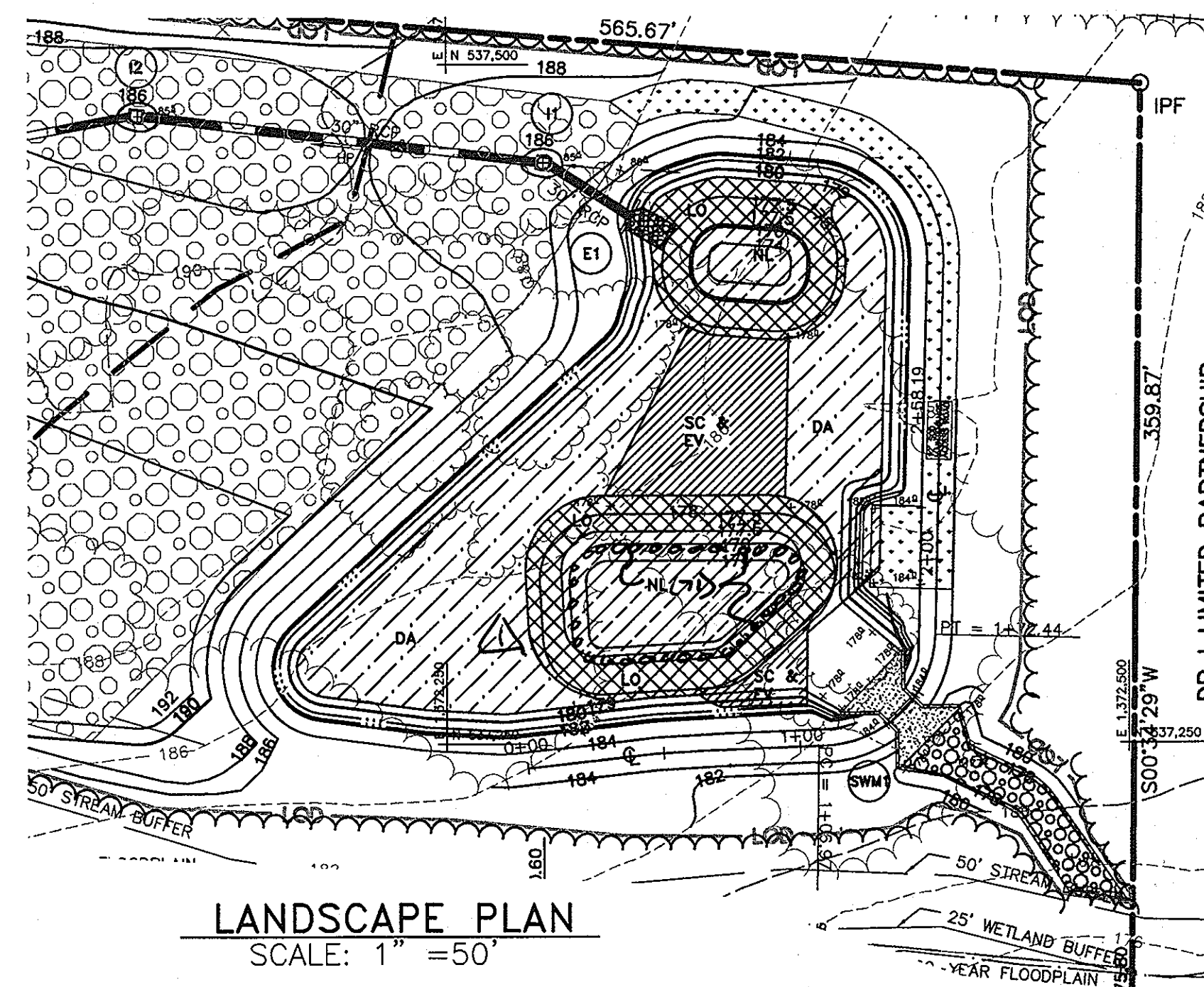


1.5" ORIFICE TRASH RACK
NTS



SWM1 DETAILS
SCALE: 1" = 8'-0"

Appendix D-8. Miscellaneous Details for Compliance with Performance Criteria



LANDSCAPE PLAN
SCALE: 1" = 50'

| COMMON NAME | SCIENTIFIC NAME | QUANTITY | WETLAND STATUS | ELEVATION |
|-----------------------------------|------------------------------|----------|----------------|-------------|
| WOOL GRASS (3' OC-SPACING) | SCIRPUS CYPERINUS (SC) | 239 | FAWC+ | 178.0 |
| VIRGINIA WILD RYE (3' OC-SPACING) | ELYMUS VIRGINICUS (EV) | 238 | FAWC- | 178.0 |
| AMERICAN LOTUS (3' OC-SPACING) | NELUMBO LUTEA (NL) | 481 | OBL | 178.3-178.4 |
| RICE CUTGRASS (3' OC-SPACING) | LEERSIA ORYZOIDES (LO) | 818 | OBL | 178.3-178 |
| PANIC GRASS (3' OC-SPACING) | DICHANETHELM ACUMINATUM (DA) | 1413 | OBL | 178-179 |

OPERATION, MAINTENANCE AND INSPECTION

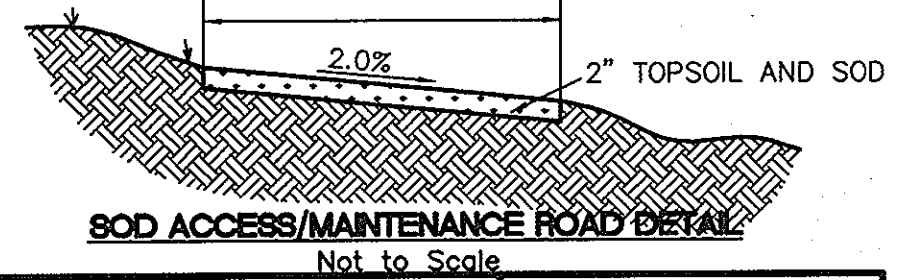
INSPECTION OF THE POND(S) SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SCS "STANDARDS AND SPECIFICATIONS FOR PONDS" (MD-378). THE POND OWNER(S) AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

MAINTENANCE SCHEDULE / REQUIREMENTS

THE STORMWATER MANAGEMENT FACILITIES SHALL BE MAINTAINED BY THE PROPERTY OWNER AS FOLLOWS:
1. REMOVAL OF ACCUMULATED PAPER, TRASH, AND DEBRIS AS NECESSARY;
2. ANNUAL INSPECTION AND REPAIR OF THE STRUCTURES AND PERFORATED PIPE.

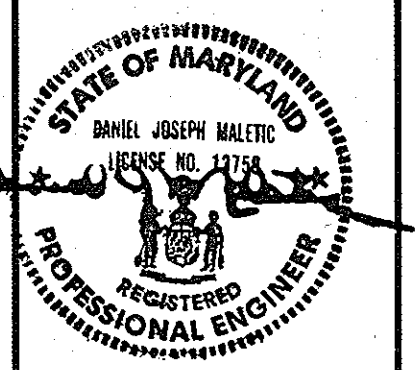
EMBANKMENT NOTES

- EXACT LOCATION AND DEPTH OF CORE TRENCH TO BE DETERMINED BY GEOTECHNICAL ENGINEER.
- CORE TRENCH MATERIAL SHALL CONFORM TO UNIFIED SOIL CLASSIFICATIONS GC, SC, CH & CL. AND SHOULD BE 95% COMPACTED.
- EMBANKMENT MATERIAL SHALL CONFORM TO UNIFIED SOIL CLASSIFICATIONS GC, SC, CL & CH. ML MATERIAL MAY BE USED UNDER DIRECT SUPERVISION OF GEOTECHNICAL ENGINEER.
- CORE TRENCH AND EMBANKMENT MATERIAL IS AVAILABLE IN THE AREA OF SOIL BORINGS 63, 64 & 71. THESE SOILS MAY BE WET AND REQUIRE DEWATERING. SEE SHEET 1 AND 3 FOR BORING LOGS.
- CONSTRUCTION OF CORE TRENCH AND EMBANKMENT SHALL BE SUPERVISED BY A GEOTECHNICAL ENGINEER WHO SHALL REMAIN ON-SITE DURING THE CONSTRUCTION.
- PROVIDE CORE TRENCH 4.0 FEET (MIN.) BELOW STRIPPED GROUND OR CONCRETE GRADE.
- PRIOR TO FILLING CORE TRENCH, GEOTECHNICAL ENGINEER CERTIFICATE IS REQUIRED FOR FILLING AND BOTTOM WIDTH OF CORE TRENCH.
- THE DEPTH OF CORE TRENCH SHALL BE EXCAVATED INTO IMPERVIOUS MATERIAL AND A CERTIFICATE SHOULD BE OBTAINED FROM GEOTECHNICAL ENGINEER BEFORE FILLING THE TRENCH.



SOD ACCESS/MAINTENANCE ROAD DETAIL
Not to Scale

Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 13759, Expiration Date: 12/27/2007.



| Date | No. | Revision Description |
|------|-----|----------------------|
| | | |

BY THE ENGINEER:
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Daniel J. Maletic 8/10/07
Daniel J. Maletic DATE

BY THE DEVELOPER:
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL EMPLOY A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD CONSERVATION DISTRICT.

Curtis Hall 8/10/07
Curtis Hall DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Jim Malone 8/30/07
Jim Malone DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John S. ... 8/30/07
John S. ... DATE

William ... 9/1/07
William ... DATE

Cindy ... 9/2/07
Cindy ... DATE

David ... 9/2/07
David ... DATE

JESSUP ASPHALT PLANT
"PARCEL A"
TAX MAP 48 GRID 8 PARCEL 191
ELECTION DISTRICT No. 6
HOWARD COUNTY, MD

GPI GREENMAN-PEDERSEN, INC.
ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS
10677 GULFORD ROAD, ANNAPOLIS JUNCTION, MD 20701
WASH. (301) 470-2772 BALT. (410) 880-3005
FAX (301) 490-2849 www.gpi.net

STORMWATER MANAGEMENT, LANDSCAPING PLAN & DETAILS

| | | |
|-----------|----------------|------------------|
| Des By LT | Scale AS SHOWN | Proj No. 2005068 |
| Dwn By LT | Date 7/27/07 | DRAWING NO. |
| Chk By | Approved | 9 OF 16 |

CONSTRUCTION SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard for practice MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

Site Preparation

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative.

Earth Fill

Material - The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6", frozen or other objectionable materials.

Placement - Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8" thick (before compaction) layers which are to be continuous over the entire length of the fill.

LOG OF BORING NO. SB-01

Log of Boring SB-01 data table with columns for Sample No., Depth, Description, and Remarks. Includes project details for Jessup Asphalt Plant and notes on sampling methods.

Compaction - The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of heavy equipment or compaction shall be achieved by a minimum of four complete passes of a sheepfoot, rubber tired or vibratory roller.

Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used.

When required by the reviewing agency the minimum required density shall not be less than 95% maximum dry density with a moisture content within ±2% of the optimum.

Out Off Trench - The cutoff trench shall be excavated into impervious material along or parallel to the centerline of the embankment as shown on the plans.

Embankment Core - The core shall be parallel to the centerline of the embankment as shown on the plans. The top width of the core shall be a minimum of four feet.

Structure Backfill - Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material.

Structure backfill may be flowable fill meeting the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 313 as modified.

LOG OF BORING NO. SB-02

Log of Boring SB-02 data table with columns for Sample No., Depth, Description, and Remarks. Includes project details for Jessup Asphalt Plant and notes on sampling methods.

resistivity of 2,000 ohm-cm. Material shall be placed such that a minimum of 6" (measured perpendicular to the outside of the pipe) of flowable fill shall be under (bedding), over and, on the sides of the pipe.

At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure.

Pipe Conduits

All pipes shall be circular in cross section.

Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe:

- 1. Materials - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM C-361.
2. Bedding - Reinforced concrete pipe conduits shall be laid in a concrete bedding/cradle for their entire length.
3. Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream.
4. Backfilling shall conform to "Structure Backfill".
5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Plastic Pipe - The following criteria shall apply for plastic pipe:

- 1. Materials - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D 1785 or ASTM D-2241. Corrugated High Density Polyethylene (HDPE) pipe, couplings and fittings shall conform to the following: 4" - 10" inch pipe shall meet the requirements of AASHTO M252 Type S, and 12" through 24" inch shall meet the requirements of AASHTO M294 Type S.
2. Joints and connections to anti-seep collars shall be completely watertight.
3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length.
4. Backfilling shall conform to "Structure Backfill".
5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Design Diaphragms

When a drainage diaphragm is used, a registered professional engineer will supervise the design and construction inspection.

Concrete

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 414, Mix No. 3.

Rock Riprap

Rock riprap shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 311.

Geotextile shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 921.09, Class C.

Care of Water during Construction

All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the area to be occupied by the permanent works.

Stabilization

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Natural Resources Conservation Service Standards and Specifications for Critical Area Planting (M1-342) or as shown on the accompanying drawings.

Erosion and Sediment Control

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed.

OPERATION AND MAINTENANCE

An operation and maintenance plan in accordance with Local or State Regulations will be prepared for all ponds. As a minimum, the dam inspection checklist located in Appendix A shall be included as part of the operation and maintenance plan and performed at least annually.

LOG OF BORING NO. SB-06

Log of Boring SB-06 data table with columns for Sample No., Depth, Description, and Remarks. Includes project details for Jessup Asphalt Plant and notes on sampling methods.

LOG OF BORING NO. SB-07

Log of Boring SB-07 data table with columns for Sample No., Depth, Description, and Remarks. Includes project details for Jessup Asphalt Plant and notes on sampling methods.

LOG OF BORING NO. SB-08

Log of Boring SB-08 data table with columns for Sample No., Depth, Description, and Remarks. Includes project details for Jessup Asphalt Plant and notes on sampling methods.

LOG OF BORING NO. SB-09

Log of Boring SB-09 data table with columns for Sample No., Depth, Description, and Remarks. Includes project details for Jessup Asphalt Plant and notes on sampling methods.

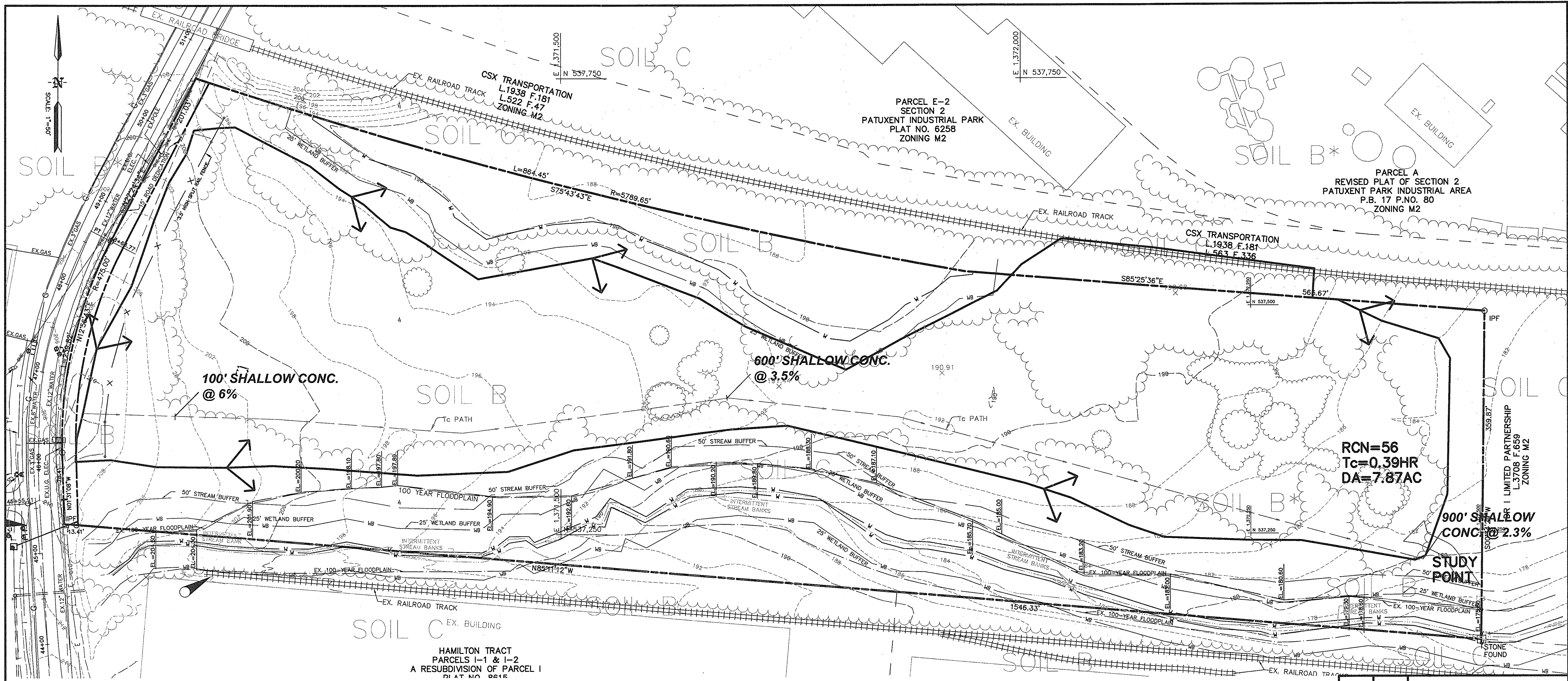
LOG OF BORING NO. SB-05

Log of Boring SB-05 data table with columns for Sample No., Depth, Description, and Remarks. Includes project details for Jessup Asphalt Plant and notes on sampling methods.

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 13759, Expiration Date: 12/27/2007.



Approval and title block for Stormwater Management Plan & Details. Includes approval signatures for Department of Planning and Zoning, Chief of Engineering Division, and Chief of Land Development. Title: JESSUP ASPHALT PLANT "PARCEL A" TAX MAP 48 GRID 8 PARCEL 191 ELECTION DISTRICT NO. 6 HOWARD COUNTY, MD. OWNER: JESSUP ASPHALT PARTNERS, LP. ENGINEER: GREENMAN-PEDERSEN, INC.



HAMILTON TRACT
PARCELS 1-1 & 1-2
A RESUBDIVISION OF PARCEL 1
PLAT NO. 8615

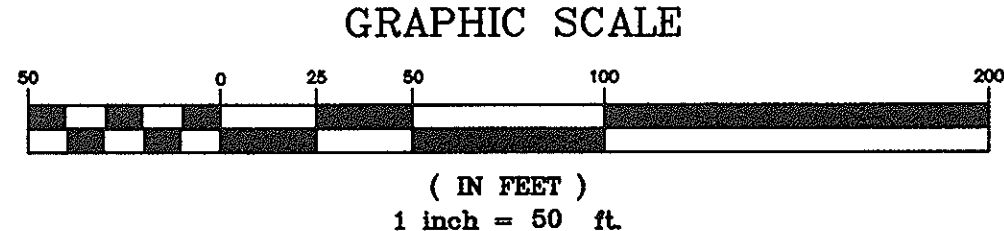
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Tc=0.39HR
DA=7.87AC

LIMITED PARTNERSHIP
L.3708 F.659
ZONING M2

LEGEND

- | | | | |
|--|-------------------------|--|---------------------------------------|
| | EXISTING CONTOUR | | STREAM LINE |
| | PROPOSED CONTOUR | | EXISTING GASLINE |
| | PROPOSED SPOT ELEVATION | | EXISTING WATER |
| | PROPERTY LINE | | PROPOSED STORM DRAIN |
| | RIGHT-OF-WAY | | PUBLIC UTILITY EASEMENT |
| | PROPOSED CURB | | PROPOSED SEWER |
| | PROPOSED WATER | | PROPOSED SEWER MANHOLE |
| | EXISTING TREE LINE | | PROPOSED STORM DRAIN INLET |
| | PROPOSED TREE LINE | | PROPOSED STORM DRAIN MANHOLE |
| | LIMIT OF DISTURBANCE | | PROPOSED BUILDING LIGHT |
| | 100-YEAR FLOODPLAIN | | LOW POINT, HIGH POINT |
| | FLOODPLAIN EASEMENT | | GRAVEL HATCH |
| | WETLAND | | PAVING HATCH |
| | 25' WETLAND BUFFER | | CONCRETE HATCH |
| | 50' STREAM BUFFER | | FENCE |
| | | | PROPOSED SODDED SWALE |
| | | | PROPOSED RIPRAP |
| | | | PROPOSED SOD MAINTENANCE ROAD |
| | | | STORMWATER MANAGEMENT DRAINAGE DIVIDE |
| | | | HYDROLOGIC SOIL BOUNDARY |

Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 13759, Expiration Date: 12/27/2007.



OWNER
JESSUP ASPHALT PARTNERS, LP
638 LANCASTER AVE.
MALVERN, PA. 19355
ATTN: CURTIS HALL
PHONE: (610) 560-7913
FAX: (610) 560-7921

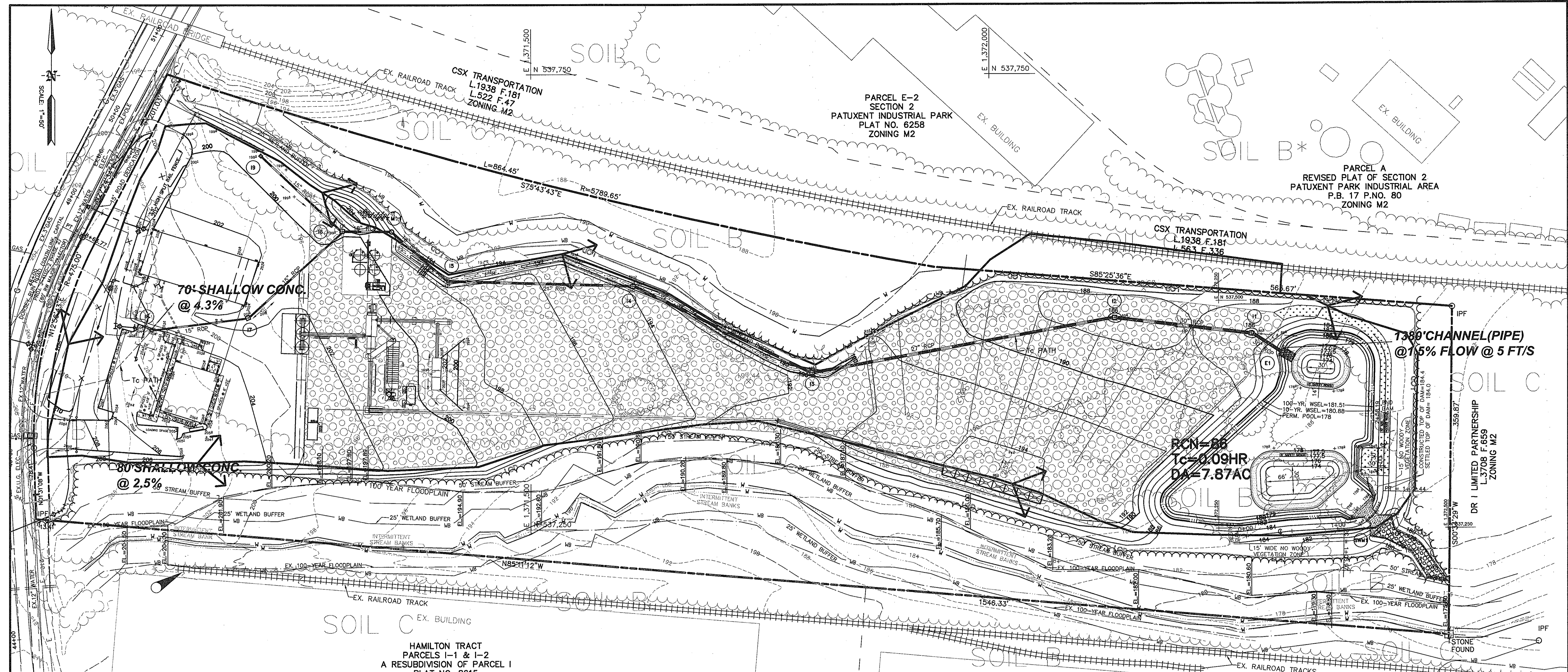
| Date | No | Revision Description |
|---------|----|---|
| 9/2/07 | | APPROVED: DEPARTMENT OF PLANNING AND ZONING |
| 9/20/07 | | CHIEF DEVELOPMENT ENGINEERING DIVISION |
| 7/24/07 | | DIRECTOR |

JESSUP ASPHALT PLANT
"PARCEL A"
TAX MAP 48 GRID 8 PARCEL 191
ELECTION DISTRICT No. 6
HOWARD COUNTY, MD

GPI GREENMAN-PEDERSEN, INC.
ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS
10077 GULFORD ROAD, ANNAPOLIS JUNCTION, MD 20701
WASH. (301) 470-2772 BALT. (410) 880-3055
FAX: (301) 490-2649 www.gpi.net

DRAINAGE AREA MAP
SWM-EXISTING

| | | |
|------------|-----------------|------------------|
| Des By: LT | Scale: 1" = 50' | Proj No. 2005068 |
| Drn By: LT | Date: 7/27/07 | DRAWING NO. |
| Chk By: CR | Approved: | 11 OF 16 |

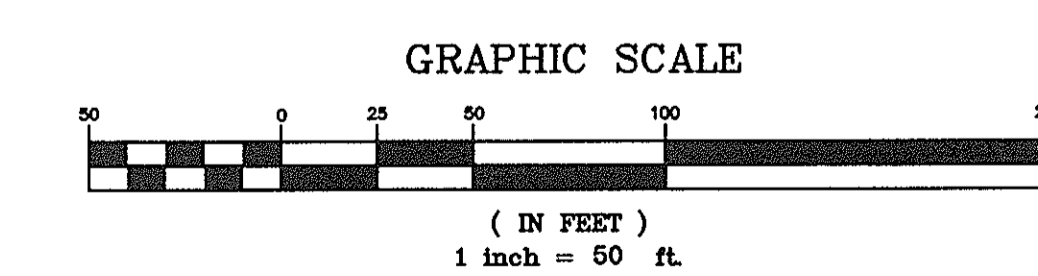


HAMILTON TRACT
PARCELS I-1 & I-2
A RESUBDIVISION OF PARCEL I
PLAT NO. 8615

LEGEND

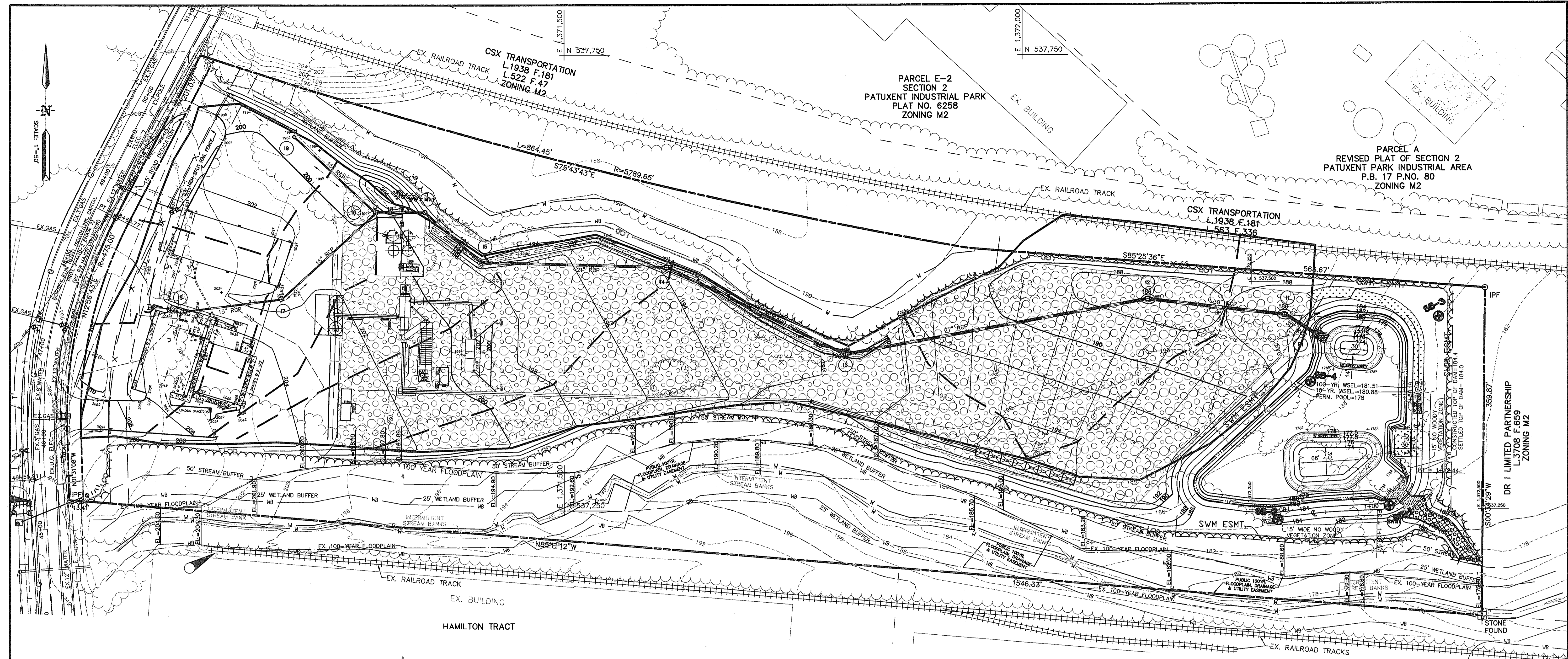
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|--|-------------------------|--|---------------------------------------|
| | EXISTING CONTOUR | | STREAM LINE |
| | PROPOSED CONTOUR | | EXISTING GASLINE |
| | PROPOSED SPOT ELEVATION | | EXISTING WATER |
| | PROPERTY LINE | | PROPOSED STORM DRAIN |
| | RIGHT-OF-WAY | | PUBLIC UTILITY EASEMENT |
| | PROPOSED CURB | | PROPOSED SEWER |
| | PROPOSED WATER | | PROPOSED SEWER MANHOLE |
| | EXISTING TREE LINE | | PROPOSED STORM DRAIN INLET |
| | PROPOSED TREE LINE | | PROPOSED STORM DRAIN MANHOLE |
| | LIMIT OF DISTURBANCE | | PROPOSED BUILDING LIGHT |
| | 100-YEAR FLOODPLAIN | | LOW POINT, HIGH POINT |
| | FLOODPLAIN EASEMENT | | GRAVEL HATCH |
| | WETLAND | | PAVING HATCH |
| | 25' WETLAND BUFFER | | CONCRETE HATCH |
| | 50' STREAM BUFFER | | FENCE |
| | | | PROPOSED SODDED SWALE |
| | | | PROPOSED RIPRAP |
| | | | PROPOSED SOD MAINTENANCE ROAD |
| | | | STORMWATER MANAGEMENT DRAINAGE DIVIDE |
| | | | HYDROLOGIC SOIL BOUNDARY |

Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 13759, Expiration Date: 12/27/2007.



OWNER
JESSUP ASPHALT PARTNERS, LP
638 LANCASTER AVE.
MALVERN, PA. 19355
ATTN: CURTIS HALL
PHONE: (610) 560-7913
FAX: (610) 560-7921

| | | |
|---|----------------|----------------------|
| Date | No | Revision Description |
| | | |
| APPROVED: DEPARTMENT OF PLANNING AND ZONING | | |
| <i>Mr. Deane</i> | | 9/1/07 |
| CHIEF DEVELOPMENT ENGINEERING DIVISION | | |
| <i>Curtis Hall</i> | | 9/2/07 |
| CHIEF DIVISION OF PLANNING AND ZONING | | |
| <i>David K. ...</i> | | 7/20/07 |
| DIRECTOR | | |
| JESSUP ASPHALT PLANT | | |
| "PARCEL A" | | |
| TAX MAP 48 GRID 8 PARCEL 191 ELECTION DISTRICT No. 6 HOWARD COUNTY, MD | | |
| GPI GREENMAN-PEDERSEN, INC. ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS 10977 GUILFORD ROAD, ANNAPOLIS JUNCTION, MD 20701 WASH. (201) 470-2772 BALT. (410) 880-3055 FAX: (201) 490-2649 www.gpiinc.com | | |
| DRAINAGE AREA MAP SWM-PROPOSED | | |
| Des By: LT | Scale 1" = 50' | Proj No. 2005066 |
| Dim By: LT | Date 7/27/07 | DRAWING NO |
| Chk By: CR | Approved | 12 OF 16 |



PARCEL E-2
SECTION 2
PATUXENT INDUSTRIAL PARK
PLAT NO. 6258
ZONING M2

PARCEL A
REVISED PLAT OF SECTION 2
PATUXENT INDUSTRIAL AREA
P.B. 17 P.NO. 80
ZONING M2

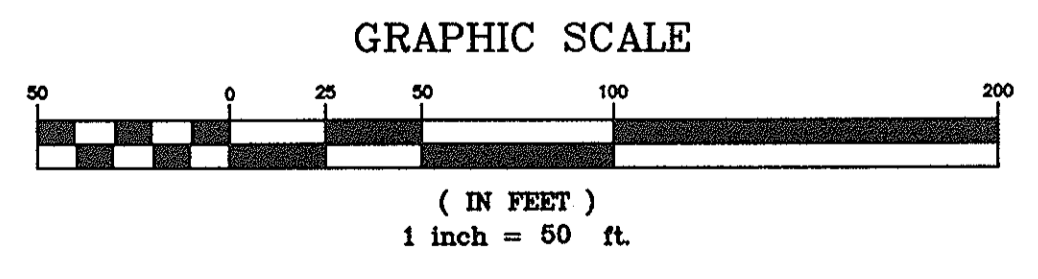
DR I LIMITED PARTNERSHIP
L.3708 F.659
ZONING M2

| SUB AREA | AREA (FT-FT) | AREA (AC) | % IMP | "C" |
|----------|--------------|-----------|-------|------|
| 11 | 31326 | 0.72 | 83.8 | 0.82 |
| 12 | 57816 | 1.33 | 76.5 | 0.76 |
| 13 | 55625 | 1.28 | 92.3 | 0.89 |
| 14 | 43145 | 0.99 | 93.3 | 0.90 |
| 15 | 24093 | 0.55 | 93.9 | 0.90 |
| 16 | 24586 | 0.56 | 88.7 | 0.86 |
| 17 | 17939 | 0.41 | 58.3 | 0.62 |
| 18 | 14156 | 0.33 | 94.0 | 0.90 |
| 19 | 22940 | 0.53 | 86.6 | 0.84 |

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPERTY LINE
- RIGHT-OF-WAY
- PROPOSED CURB
- PROPOSED WATER
- EXISTING TREE LINE
- PROPOSED TREE LINE
- LIMIT OF DISTURBANCE
- 100-YEAR FLOODPLAIN
- FLOODPLAIN EASEMENT
- WETLAND
- 25' WETLAND BUFFER
- 50' STREAM BUFFER
- STREAM LINE
- EXISTING GASLINE
- EXISTING WATER
- PROPOSED STORM DRAIN
- PUBLIC UTILITY EASEMENT
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED BUILDING LIGHT
- LOW POINT, HIGH POINT
- GRAVEL HATCH
- PAVING HATCH
- CONCRETE HATCH
- FENCE
- PROPOSED SODDED SWALE
- PROPOSED RIPRAP
- PROPOSED SOD MAINTENANCE ROAD
- TC PATH
- STORM DRAIN DRAINAGE DIVIDE
- STORMWATER MANAGEMENT DRAINAGE DIVIDE

Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 13759, Expiration Date: 12/27/2007.



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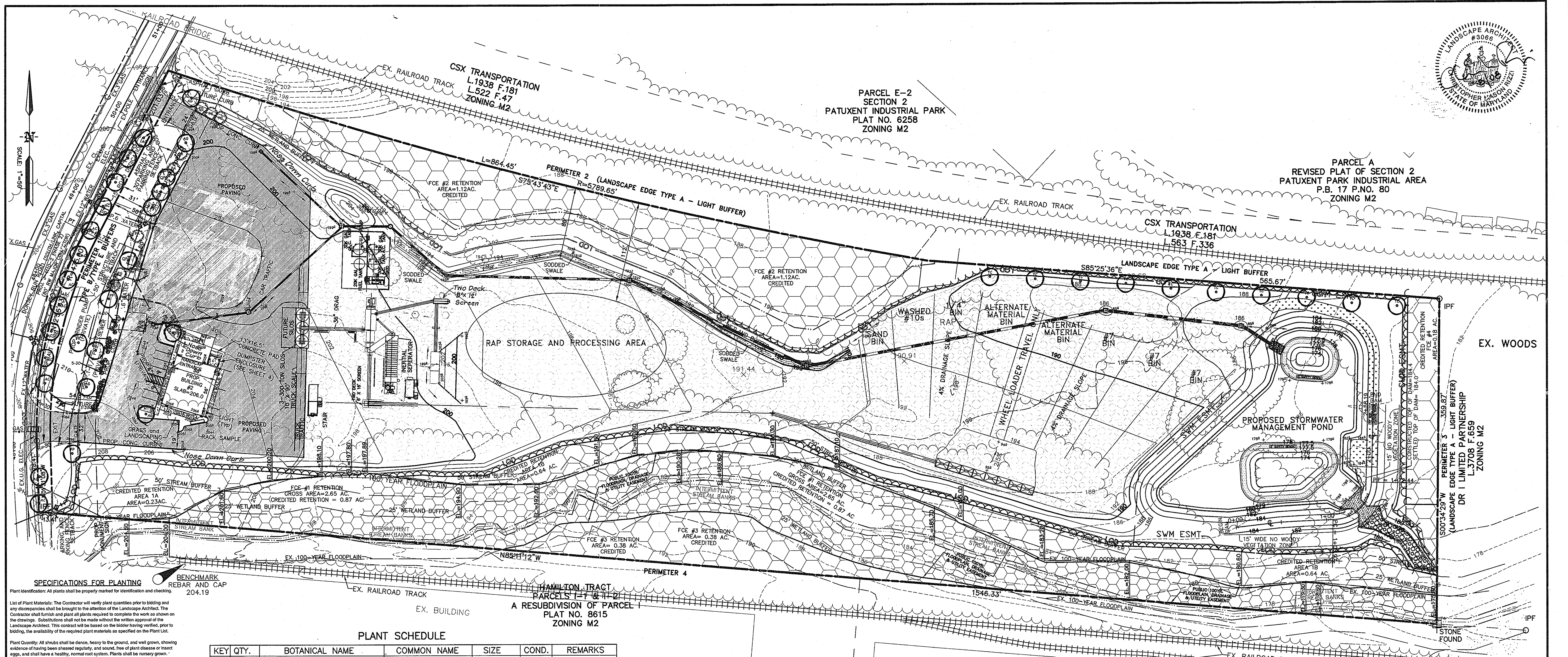
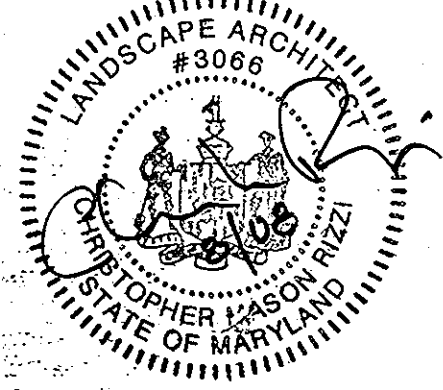
| Date | No | Revision Description |
|--------|----|---|
| 9/2/07 | 1 | APPROVED: DEPARTMENT OF PLANNING AND ZONING |
| 9/2/07 | 2 | CHIEF DEVELOPMENT ENGINEERING DIVISION |
| 9/2/07 | 3 | CHIEF DIVISION OF LAND DEVELOPMENT |
| 9/2/07 | 4 | DIRECTOR |

JESSUP ASPHALT PLANT
"PARCEL A"
TAX MAP 48 GRID 8 PARCEL 191
ELECTION DISTRICT No. 6
HOWARD COUNTY, MD

GREENMAN-PEDERSEN, INC.
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FAX: (301) 490-2849 www.gpi.net

**DRAINAGE AREA MAP
STORM DRAIN**

| | | |
|------------|-----------------|------------------|
| Des By: LT | Scale: 1" = 50' | Proj No: 2005058 |
| Drn By: LT | Date: 7/27/07 | DRAWING NO |
| Chk By: CR | Approved | 13 OF 16 |



SPECIFICATIONS FOR PLANTING
 Plant Identification: All plants shall be properly marked for identification and checking.
 List of Plant Materials: The Contractor will verify plant quantities prior to bidding and any discrepancies shall be brought to the attention of the Landscape Architect. The Contractor shall furnish and plant all plants required to complete the work as shown on the drawings. Substitutions shall not be made without the written approval of the Landscape Architect. This contract will be based on the bidder having verified, prior to bidding, the availability of the required plant materials as specified on the Plant List.
 Plant Quantity: All shrubs shall be dense, heavy to the ground, and well grown, showing evidence of having been sheared regularly, and sound, free of plant disease or insect eggs, and shall have a healthy, normal root system. Plants shall be nursery grown. Plants shall not be provided prior to delivery. The shape of the plant shall in general conform to its natural growth proportions unless otherwise specified. All plants including container grown shall conform to American Standard for Nursery Stock (ANSI Z60.1, latest edition), and shall have a well-shaped, heavy branch structure for the species. Evergreen trees are to have an internode no greater than 24" and shall be uniformly well-shaped. All plant sizes shall average at least the middle of the range given in the plant list.
 Plant Spacing: Plant spacing is to scale on the plan or as shown on the plant list.
 Soil Mix: Soil mix will be 2/3 existing soil and 1/3 leaf mold or equal organic material, thoroughly mixed and homogenized.
 Ball Size: The ball size shall conform to the American Association of Nurserymen's publication entitled American Standard for Nursery Stock, ANSI Z60.1, latest edition.
 Excavation: Holes for all plants shall be 1/2" larger in diameter than size of ball or container and shall be planted in a hole 1/2" wider than ball diameter. Beds for mass planting shall be entirely retolled to a depth of 6" and shall be 1/2" beyond the average outside edge of plant balls. A 2" layer of organic material (i.e., leaf mold) will be incorporated into plant beds by tilling again.
 Planting: Backfilling shall be done with soil mix, reasonably free of stones, silt, clay lumps, stumps, roots, weeds, bermuda grass, litter, toxic substances, or any other material which may be harmful to plant growth or hinder grading, planting, or maintenance operations. Should any unforeseen or unsuitable planting conditions arise, such as faulty soil drainage or chemical residues, they should be called to the attention of the Landscape Architect and Owner for adjustments before planting. The plant shall be set plumb and straight and shall be staked at the time of planting. Backfill shall be well worked about the mole and settled by watering. Plants will be planted higher than surrounding grade.
 Shrubs: Shrubs will be 1" higher and trees will be 3" higher. Remove rope from around tree trunks and lay back burlap from top of ball material. Nylon or vinyl rope and/or burlap will be completely removed from all plant material prior to planting.
 Transplanting Trees by Tree Machines: Trees shall be moved by machines that provide a minimum of 90 per 1" of tree calliper. Holes are to be dug by the same size machine as the one transporting the plant. The plant material shall be transported in approximately the same growing conditions as it is presently growing, in terms of soil type and moisture content. Fertilizer and gus as described in these plans and specifications.
 Cultivation: All branches and shrub beds shall be cultivated, edged and mulched to a depth of 3" with shredded bark. The area around isolated plants shall be mulched to at least 6" greater diameter than that of the hole. Plant beds adjacent to buildings shall be mulched to the building wall.
 Maintenance: The Contractor shall be responsible during the contract and up to the time of acceptance for keeping the planting and work incidental thereto in good condition, by replanting, plant replacement, watering, weeding, cultivating, pruning and spraying, restaking and cleaning up and by performing all other necessary operations of care for promotion of good plant growth so that all work is in satisfactory condition at time of acceptance, at no additional cost to the Owner.
 Fertilizer: Fertilizer shall be a slow release type contained in polyethylene perforated bags with microsphere holes for controlled feeding, such as Easy Grow as manufactured by Specialty Fertilizer, Inc., Box 355, Suffern, New York 10901, or approved equal. The bags shall contain 1 ounce of soluble fertilizer analysis 16-16-16 per unit to last three (3) years and shall be applied during planting as recommended by the manufacturer. If fertilizer packets are not used, the Contractor shall apply granular fertilizer to the soil mix with 10-4-4 analysis, 50% organic, at the following rates: Trees @ 2-3 lbs. per caliper inch; Shrubs @ 3-5 lbs. per 100 sq. ft.; and Groundcover Beds @ 2-3 lbs. per 100 sq. ft.
 Groundcover: All areas of groundcover shall be retolled to a depth of 6". Apply 2" of organic material and rototill until thoroughly mixed. Apply fertilizer as stated above.
 Guarantee and Replacement: All material shall be unconditionally guaranteed for one (1) year. The Contractor is responsible for watering but not for losses or damage caused by mechanical injury or vandalism.

PLANT SCHEDULE

| KEY QTY. | BOTANICAL NAME | COMMON NAME | SIZE | COND. | REMARKS |
|----------|--|------------------------------|-----------------|-------|---|
| FP 5 | Fraxinus pennsylvanica | Patmore Green Ash | 2.5" - 3" cal. | B&B | |
| AG 6 | Acer griseum | Paperbark Maple | 2.5" cal. | B&B | |
| QP 4 | Quercus phellos | Willow Oak | 2.5" - 3" cal. | B&B | |
| PS 5 | Pinus strobus | Eastern White Pine | 6-8 ft. ht. | B&B | |
| PA 3 | Picea abies | Norway Spruce | 6-8 ft. ht. | B&B | |
| TC 14 | Tilia cordata "Greenspire" | Greenspire Littleleaf Linden | 8-10 ft. ht. | B&B | Min 2.5" cal |
| JC 12 | Juniperus chinensis "Pfitzeriana" Compacta | Compact Pfitzer Juniper | 2-2 1/2 ft. ht. | Cont. | |
| CD 13 | Cotoneaster dammeri "Coral Beauty" | Coral Beauty Cotoneaster | 2-2 1/2 ft. ht. | Cont. | |
| AC 13 | Acer compestre (STREET TREE) | Hedge Maple | 2.5" cal. | B&B | LIMP-UP AS NEEDED TO MEET SIGHT DISTANCE REQUIREMENTS |

NOTE:
 LANDSCAPE SURETY IN THE AMOUNT OF \$9,900.00 HAS BEEN POSTED AS A PART OF THE DEVELOPER'S AGREEMENT.

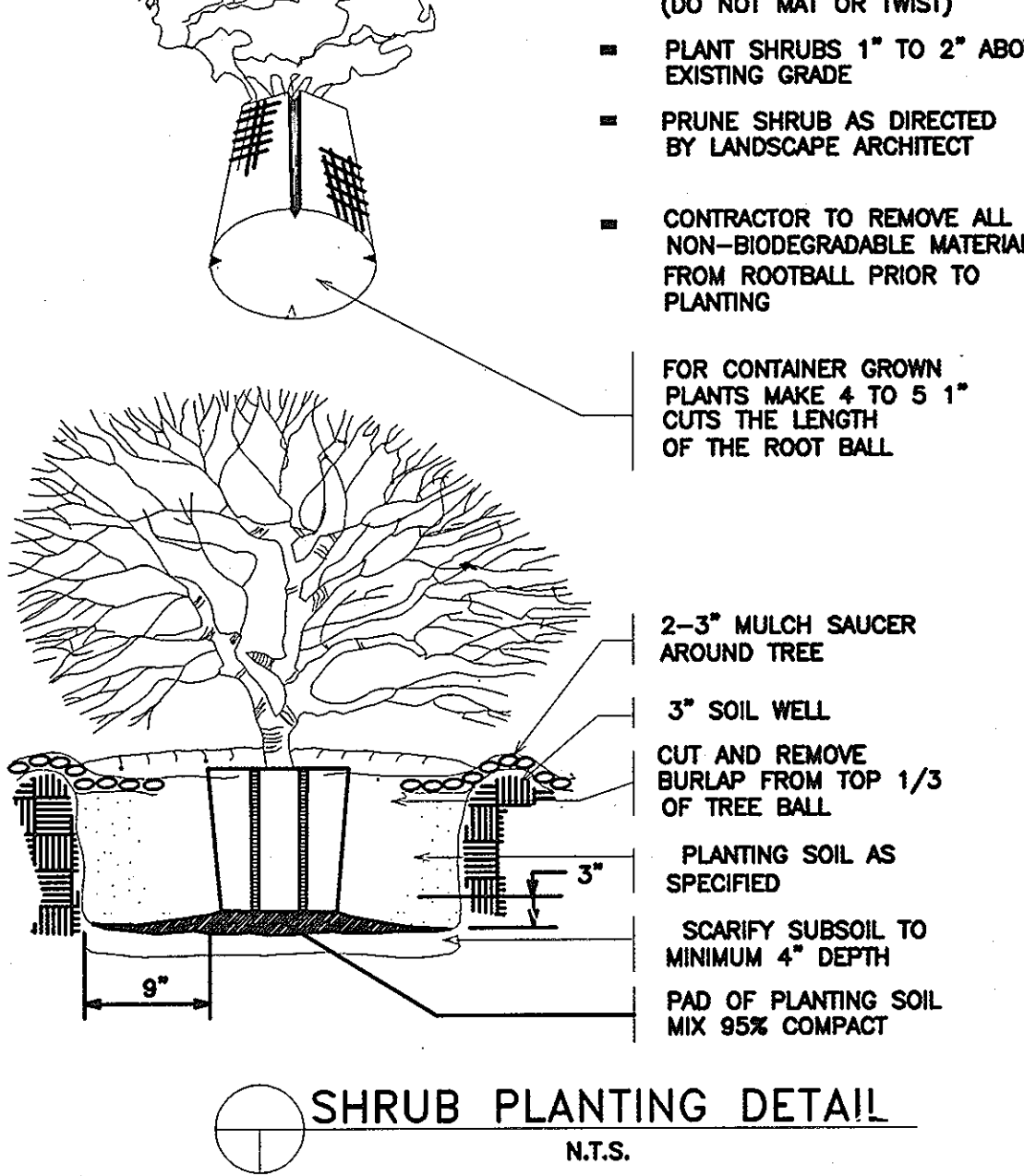
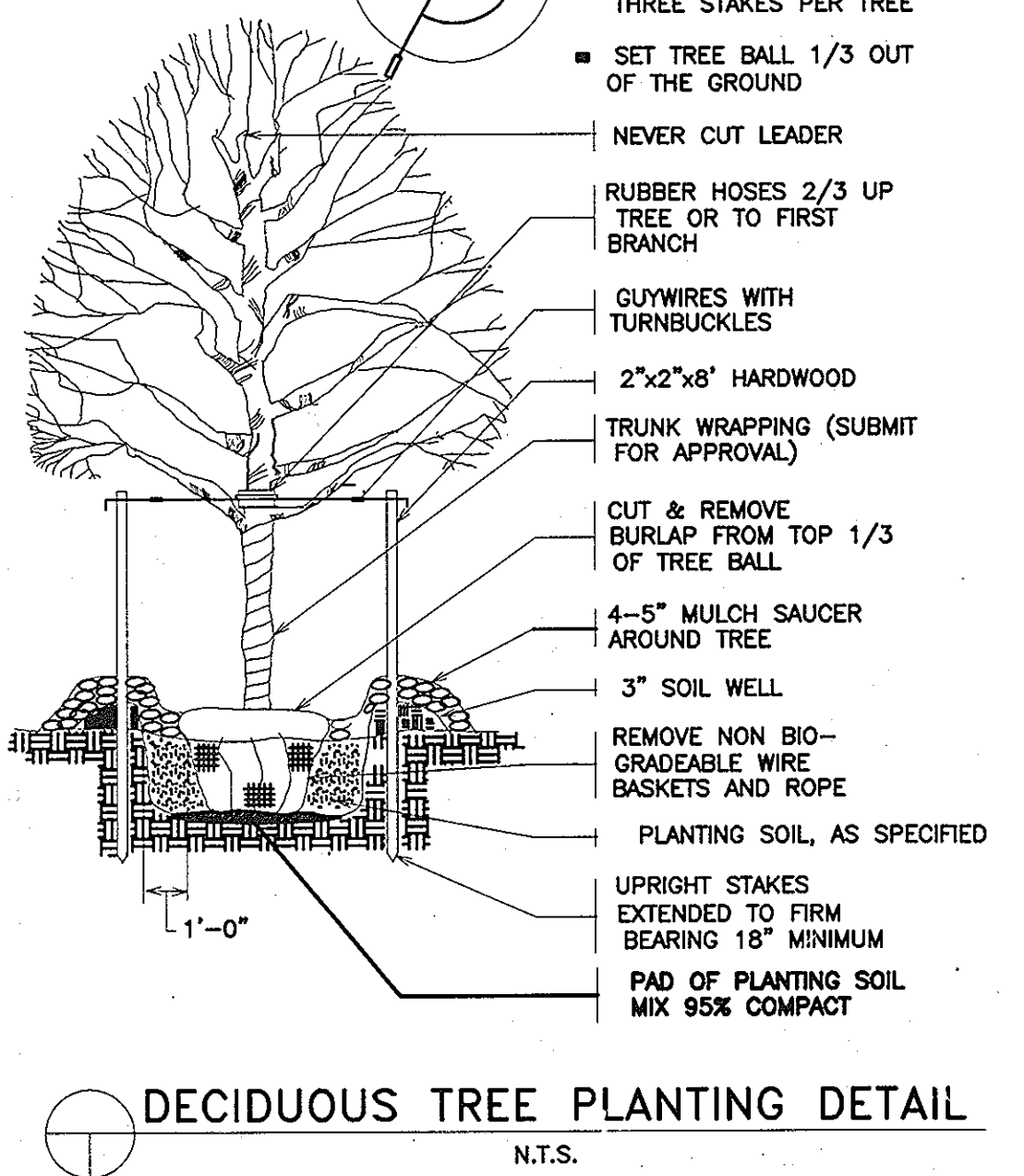
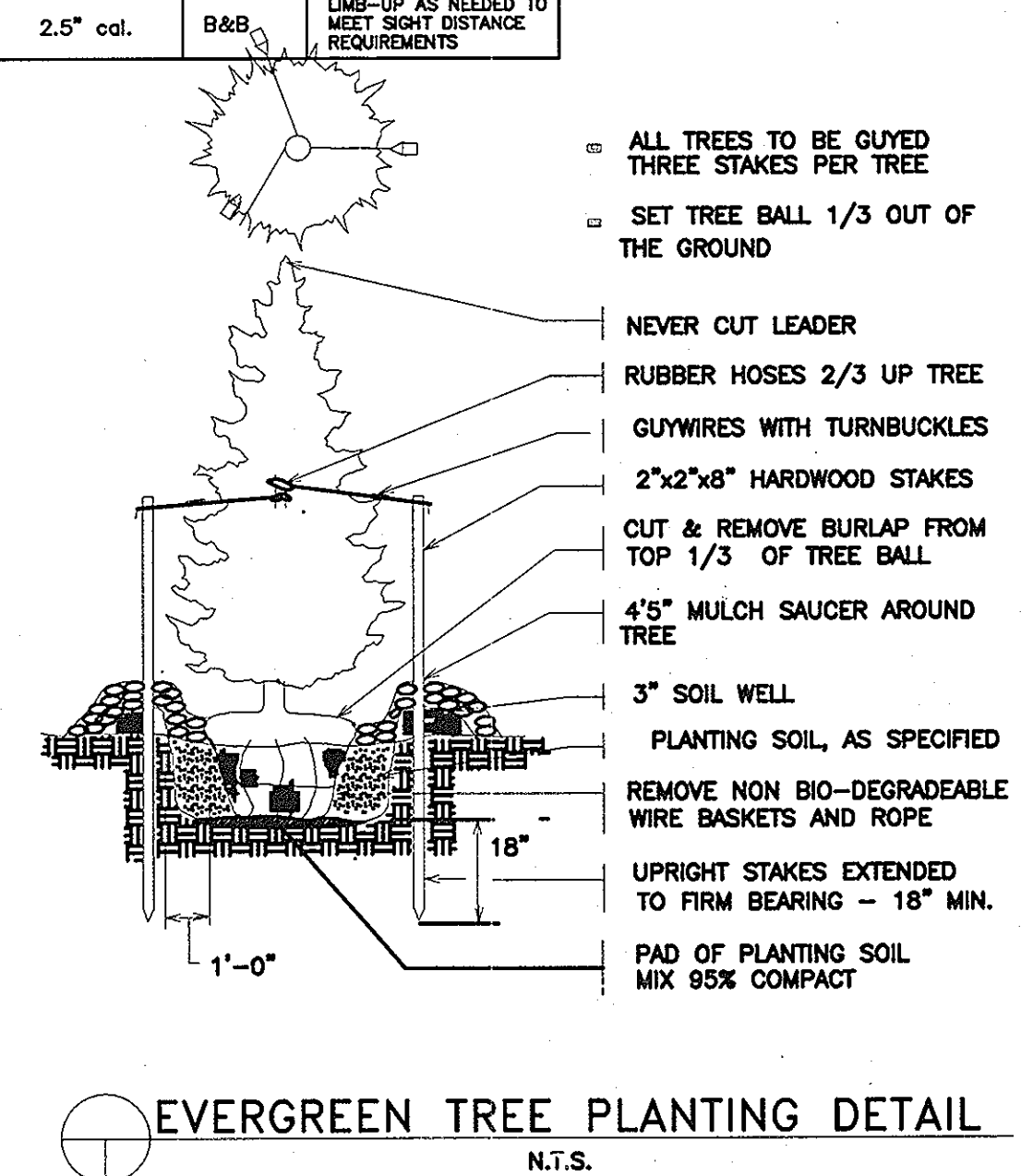
STREET TREE NOTE:
 STREET TREE PLANTING TO BE PROVIDED & INSTALLED IN COORDINATION WITH LANDSCAPING SHOWN ON CIP-34110-2, AND SURETY FOR THE CAPITAL PROJECTS IS NOT PROVIDED AS PART OF THE LANDSCAPE SURETY FOR THIS PLAN.

**SCHEDULE A
 PERIMETER LANDSCAPE EDGE**

| Perimeter | PERIMETER | | | |
|--------------------------------|--------------------------|------------------|-------------|-------------|
| | PERIMETER 1 | PERIMETER 2 | PERIMETER 3 | PERIMETER 4 |
| Landscape Edge Type | B/E | A | A | A |
| Linear Feet of Perimeter | TYPE B 518 LF, 100 LF | TYPE E 520 LF | 360 LF | 1,546 LF |
| Credit for Existing Vegetation | NO | YES(910) | YES(340) | YES(1540) |
| Credit for Wall, Fence or Berm | NO | NO | NO | NO |
| Number of Plants Required | TYPE B 13 | TYPE E 3 | 0 | 0 |
| Shade Trees | 0 | 0 | 0 | 0 |
| Evergreen Trees | 0 | 0 | 0 | 0 |
| Shrubs | 0 | 0 | 0 | 0 |
| Number of Plants Provided | TYPE B 12 | TYPE E 3 | 10 | 0 |
| Shade Trees (C21 substitution) | 0 | 0 | 0 | 0 |
| Other Trees (C21 substitution) | 0 | 0 | 0 | 0 |
| Shrubs (C21 substitution) | 0 | 0 | 0 | 0 |
| Other Plants | 0 | 0 | 0 | 0 |
| EX. VEG. (1010) | | | | |
| EX. VEG. (1540) | | | | |

**SCHEDULE B
 PARKING LOT INTERNAL LANDSCAPING**

| | |
|---------------------------------------|----|
| Number of Parking Spaces | 18 |
| Number of Trees Required | 1 |
| Number of Trees Provided | 4 |
| Shade Trees (C21 substitution) | 0 |
| Other Trees (C21 substitution) | 0 |
| Number of Landscaped Islands Required | 1 |
| Number of Landscaped Islands Provided | 4 |



| Date | No | Revision Description |
|---------|----|---|
| 2-26-09 | 1 | Eliminated BLDG #1, Revised Limit of Planting Control Center, Screen, Stair, 2" Water Location & FH Location. |

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 9/7/07
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 [Signature] 9/20/10
 CHIEF-DIVISION OF LAND DEVELOPMENT
 [Signature] 9/26/12
 DIRECTOR

JESSUP ASPHALT PLANT
 "PARCEL A"
 TAX MAP 48 GRID 8 PARCEL 191
 ELECTION DISTRICT NO. 6
 HOWARD COUNTY, MD

GREENMAN-PEDERSEN, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS
 10077 GOLFVIEW ROAD, ANNAPOLIS JUNCTION, MD 20701
 WASH. (301) 470-2772 BALT. (410) 880-3005
 FAX: (301) 490-2649 www.gpi.net

**FINAL
 LANDSCAPE PLAN**

| | | |
|---------------|-----------------|----------------------|
| Des By: CR | Scale: 1" = 50' | Proj No: 2005068 |
| Drn By: LT/NB | Date: 7/27/07 | DRAWING NO: 14 OF 16 |
| Chk By: CR | Approved: | |

NET TRACT AREA:

| | | |
|---|---|-------|
| A. Total tract area..... | = | 13.82 |
| B. Area within 100 year floodplain..... | = | 1.78 |
| C. Area to remain in agricultural production..... | = | 0.00 |
| D. Net tract area..... | = | 12.04 |

LAND USE CATEGORY: (from table 3.2.1, page 40, manual)

Input the number "1" under the appropriate land use zoning, and limit to only one entry

| ARA | NDR | IDA | HDR | MPD | CIA |
|-----|-----|-----|-----|-----|-----|
| 0 | 0 | 0 | 0 | 0 | 1 |

| | | |
|---------------------------------|-----------|------|
| E. Afforestation threshold..... | 15% x D = | 1.81 |
| F. Conservation threshold..... | 15% x D = | 1.81 |

EXISTING FOREST COVER:

| | |
|--|------|
| G. Existing forest cover (excluding floodplain)..... | 5.87 |
| H. Area of forest above afforestation threshold..... | 4.06 |
| I. Area of forest above conservation threshold..... | 4.06 |

BREAK EVEN POINT:

| | |
|---|------|
| J. Forest retention above threshold with no mitigation..... | 3.18 |
| K. Clearing permitted without mitigation..... | 5.44 |

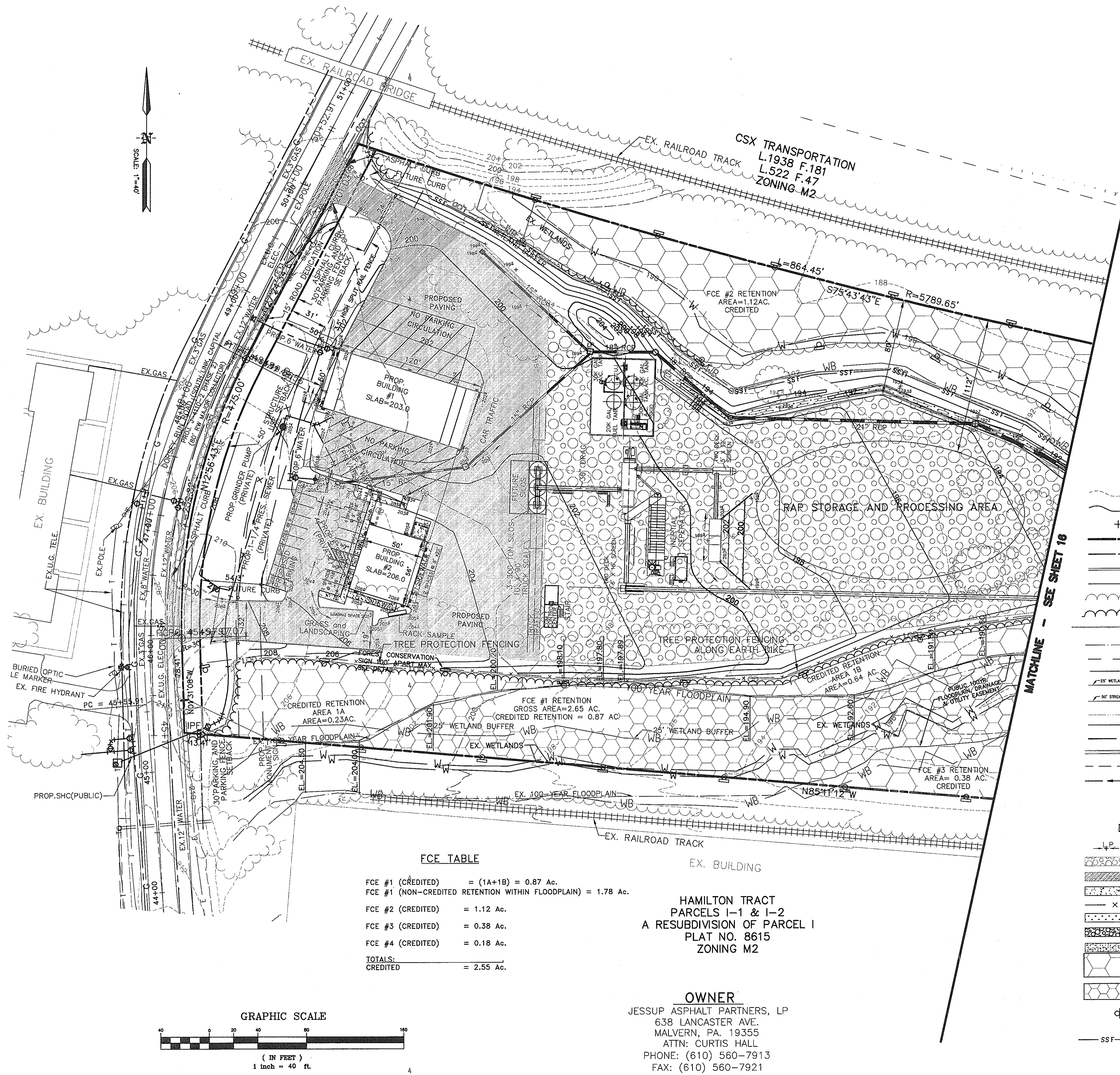
PROPOSED FOREST CLEARING:

| | |
|---|------|
| L. Total area of forest to be cleared..... | 3.32 |
| M. Total area of forest to be retained..... | 2.55 |

PLANTING REQUIREMENTS:

| | |
|---|------|
| N. Reforestation for clearing above conservation threshold..... | 1.07 |
| P. Reforestation for clearing below conservation threshold..... | 0.00 |
| Q. Credit for retention above conservation threshold..... | 0.74 |
| R. Total reforestation required..... | 0.00 |
| S. Total afforestation required..... | 0.00 |
| T. Total reforestation and afforestation required..... | 0.00 |

The Forest Conservation obligation for this plan has been met by providing 2.55 AC of credited on-site retention, within FCE's #1-4 and a fee in lieu payment of \$2943.30 made to the Ho. Co. Forest Conservation Fund for the remaining 0.09 acre if reforestation obligation.
Forest Conservation surety in the amount of \$22,215.60 has been posted as a part of the Developers Agreement for the 2.55 acres of credited on-site retention within FCE's #1-4.



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPERTY LINE
- RIGHT-OF-WAY
- PROPOSED CURB
- PROPOSED WATER
- EXISTING TREE LINE
- PROPOSED TREE LINE
- LIMIT OF DISTURBANCE
- 100-YEAR FLOODPLAIN
- FLOODPLAIN EASEMENT
- WETLAND
- 25' WETLAND BUFFER
- 50' STREAM BUFFER
- STREAM LINE
- EXISTING GASLINE
- EXISTING WATER
- PROPOSED STORM DRAIN
- PUBLIC UTILITY EASEMENT
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED BUILDING LIGHT
- LOW POINT, HIGH POINT
- GRAVEL HATCH
- PAVING HATCH
- CONCRETE HATCH
- TREE PROTECTION FENCE
- PROPOSED SODDED SWALE
- PROPOSED RIPRAP
- PROPOSED SOD MAINTENANCE ROAD
- CREDITED FOREST RETENTION AREA
- FOREST RETENTION AREA IN FLOODPLAIN
- FOREST CONSERVATION SIGN (100' APART MAX.)
- SSF SUPER SILT FENCE

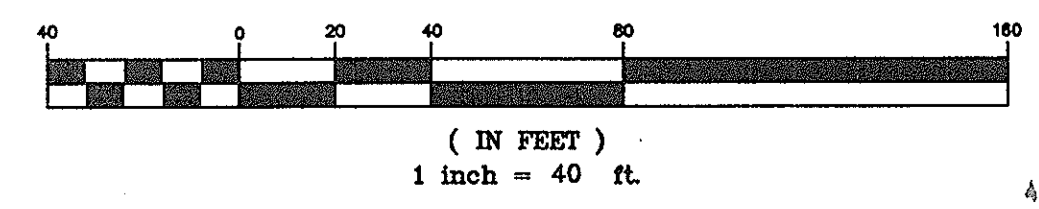
FCE TABLE

| | |
|---|----------------------|
| FCE #1 (CREDITED) | = (1A+1B) = 0.87 Ac. |
| FCE #1 (NON-CREDITED RETENTION WITHIN FLOODPLAIN) | = 1.78 Ac. |
| FCE #2 (CREDITED) | = 1.12 Ac. |
| FCE #3 (CREDITED) | = 0.38 Ac. |
| FCE #4 (CREDITED) | = 0.18 Ac. |
| TOTALS: | |
| CREDITED | = 2.55 Ac. |

HAMILTON TRACT
PARCELS 1-1 & 1-2
A RESUBDIVISION OF PARCEL 1
PLAT NO. 8615
ZONING M2

OWNER
JESSUP ASPHALT PARTNERS, LP
638 LANCASTER AVE.
MALVERN, PA. 19355
ATTN: CURTIS HALL
PHONE: (610) 560-7913
FAX: (610) 560-7921

GRAPHIC SCALE



| Date | No | Revision Description |
|--------|----|---|
| 9/2/10 | | APPROVED: DEPARTMENT OF PLANNING AND ZONING |
| 9/2/10 | | CHIEF DEVELOPER ENGINEERING DIVISION |
| 9/2/10 | | CHIEF DEVELOPER LAND DEVELOPMENT |
| 9/2/10 | | DIRECTOR |

JESSUP ASPHALT PLANT
"PARCEL A"
TAX MAP 48 GRID 8 PARCEL 191
ELECTION DISTRICT No. 6
HOWARD COUNTY, MD

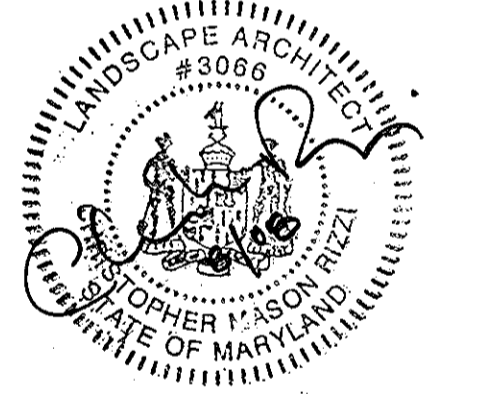
GPI GREENMAN-PEDERSEN, INC.
ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS
10677 GULFORD ROAD, ANNAPOLIS JUNCTION, MD 20701
WASH. (301) 470-2772 BALT. (410) 880-3055
FAX: (301) 490-2648 www.gpi.net.com

FOREST CONSERVATION PLAN

| | | |
|-----------|----------------|------------------|
| Des By LT | Scale 1" = 40' | Proj No. 2005068 |
| Dwn By LT | Date 7/27/07 | DRAWING NO |
| Chk By | Approved | 15 OF 16 |

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPERTY LINE
- RIGHT-OF-WAY
- PROPOSED CURB
- PROPOSED WATER
- EXISTING TREE LINE
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- 100-YEAR FLOODPLAIN
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- PROPOSED STORM DRAIN
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- PROPOSED SEWER MANHOLE
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- GRAVEL HATCH
- PAVING HATCH
- CONCRETE HATCH
- TREE PROTECTION FENCE
- PROPOSED SODDED SWALE
- PROPOSED RIPRAP
- PROPOSED SOD MAINTENANCE ROAD
- CREDITED FOREST RETENTION AREA
- FOREST RETENTION AREA IN FLOODPLAIN
- FOREST CONSERVATION SIGN (100' APART MAX.)
- SUPER SILT FENCE



| Date | No. | Revision Description |
|---------|-----|---|
| 9/7/07 | | APPROVED: DEPARTMENT OF PLANNING AND ZONING CHIEF DEVELOPMENT ENGINEERING DIVISION |
| 9/20/09 | | CHIEF DIVISION OF LAND DEVELOPMENT |
| 9/20/07 | | DIRECTOR |

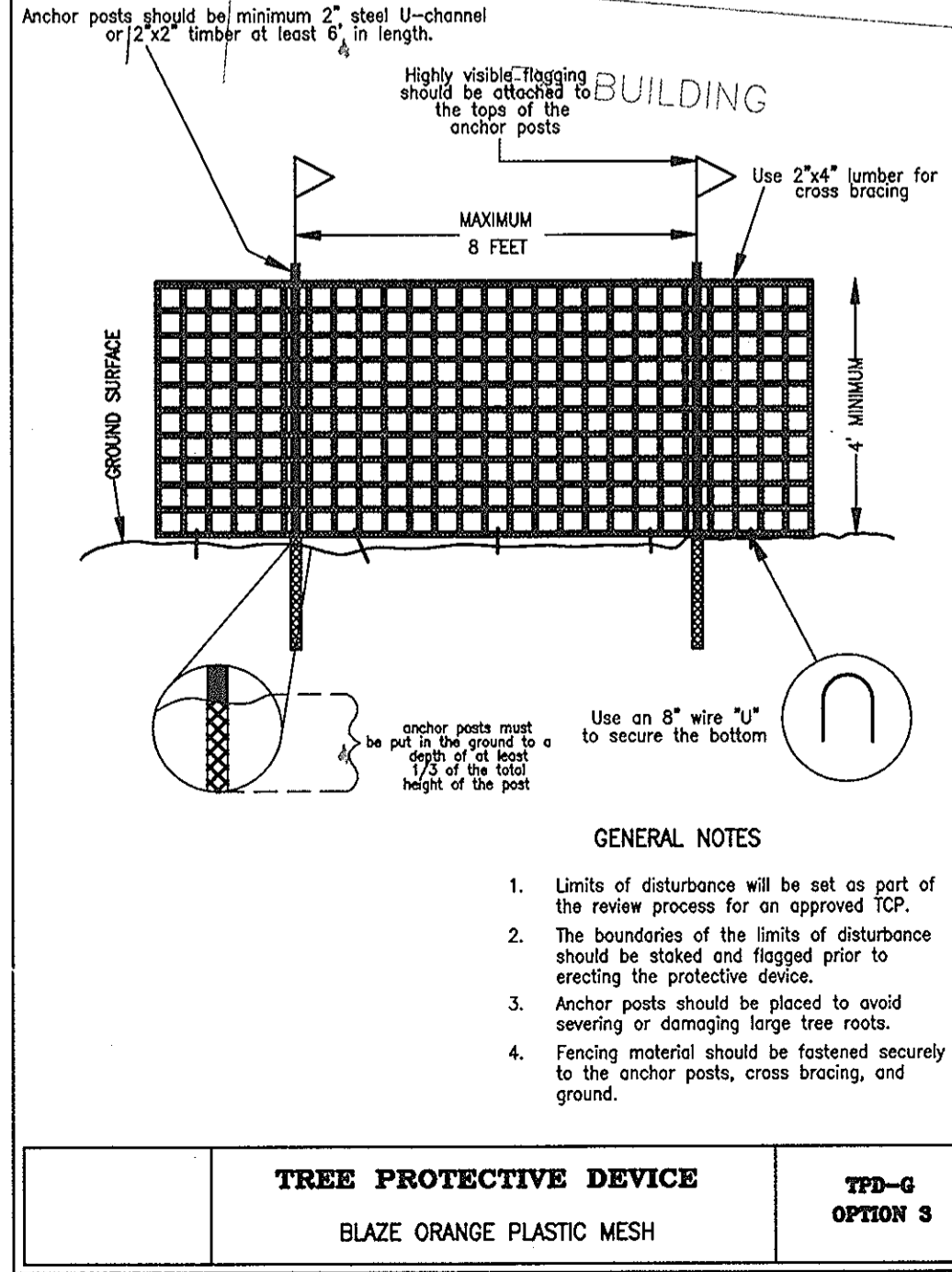
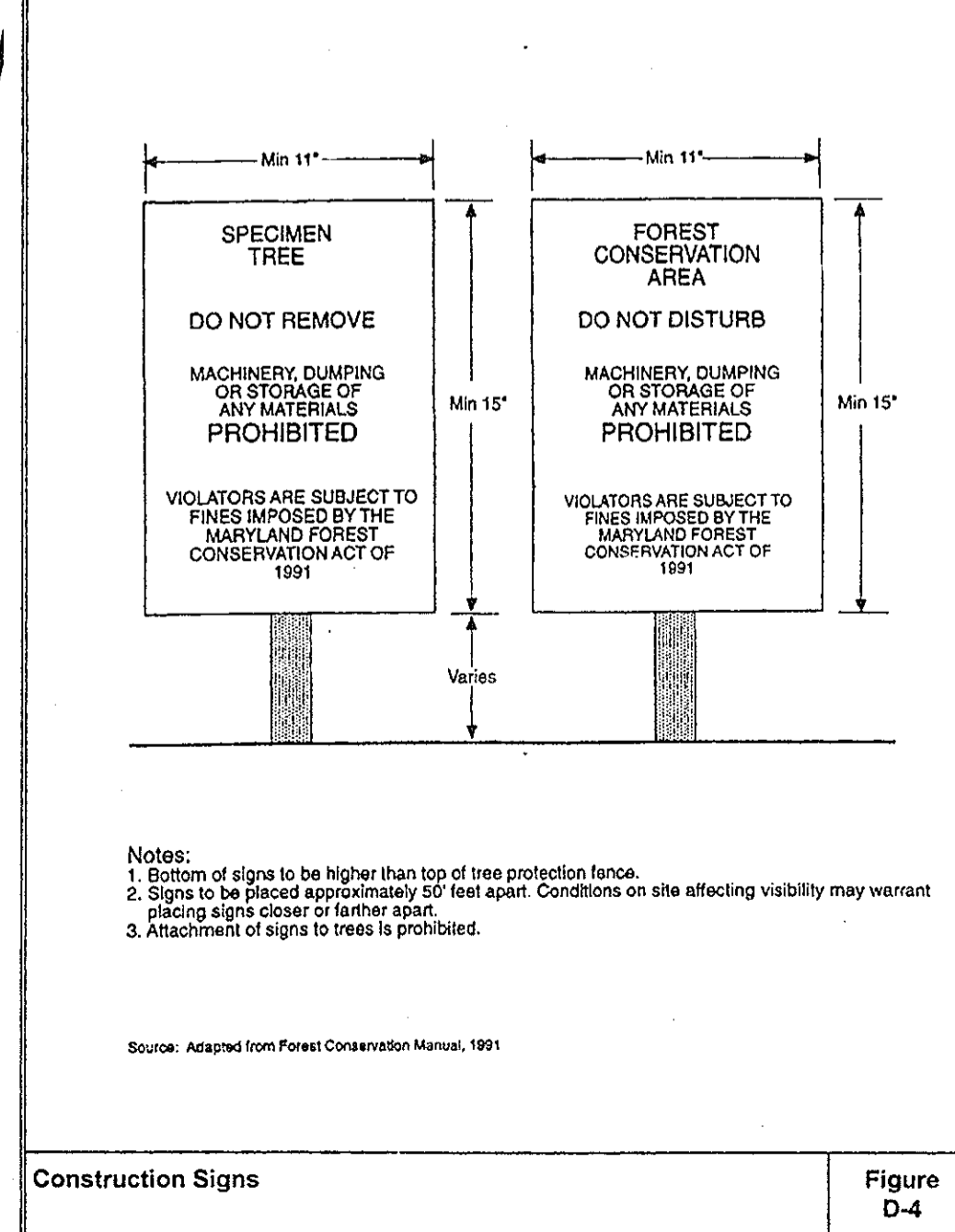
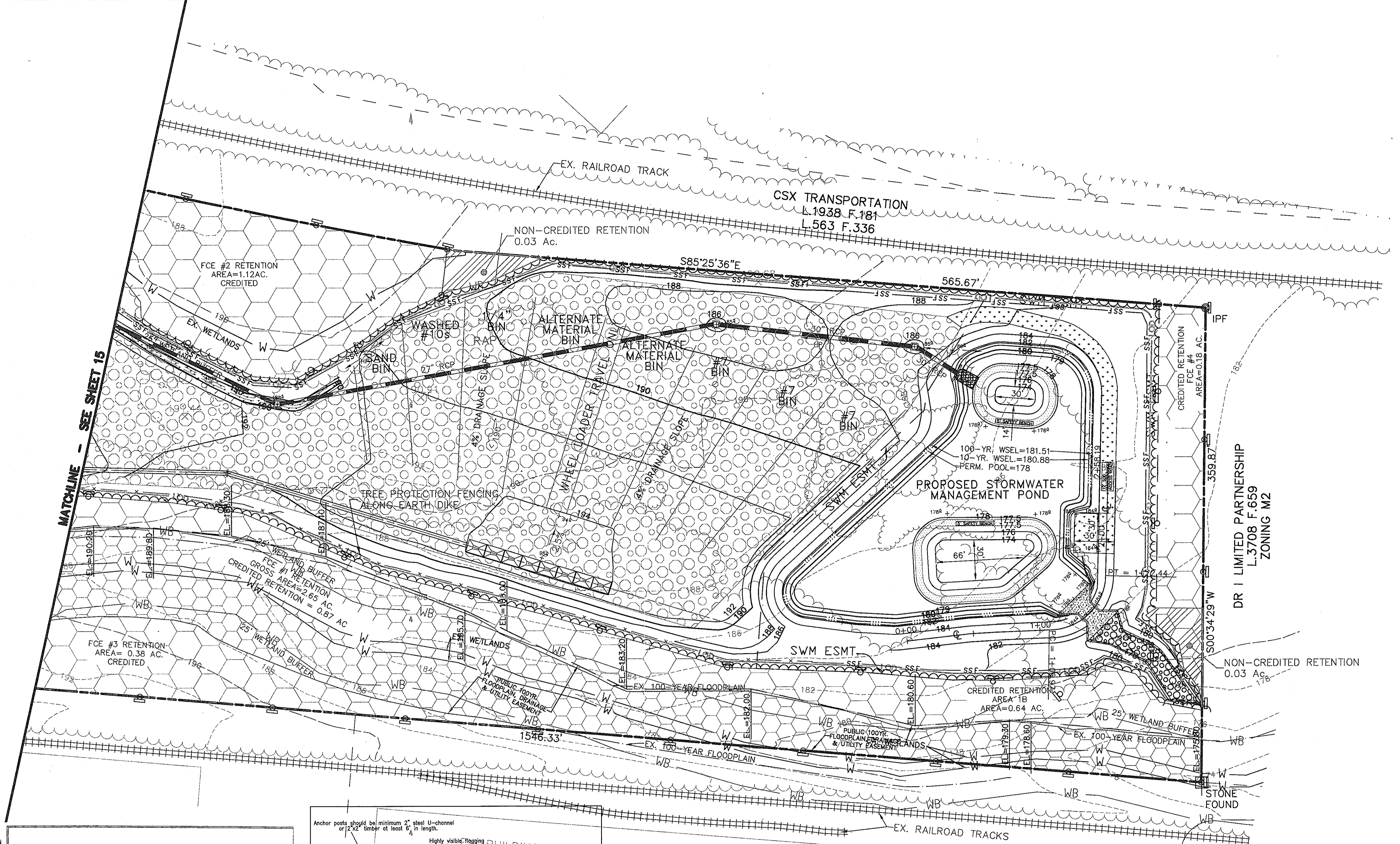
JESSUP ASPHALT PLANT
 "PARCEL A"
 TAX MAP 48 GRID 8 PARCEL 191
 ELECTION DISTRICT No. 6
 HOWARD COUNTY, MD

GPI GREENMAN-PEDERSEN, INC.
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 10777 GULFORD ROAD, ANNAPOLIS JUNCTION, MD 20701
 WASH. (201) 470-2772 BALT. (410) 880-3055
 FAX: (301) 490-2649 www.gpinet.com

FOREST CONSERVATION PLAN

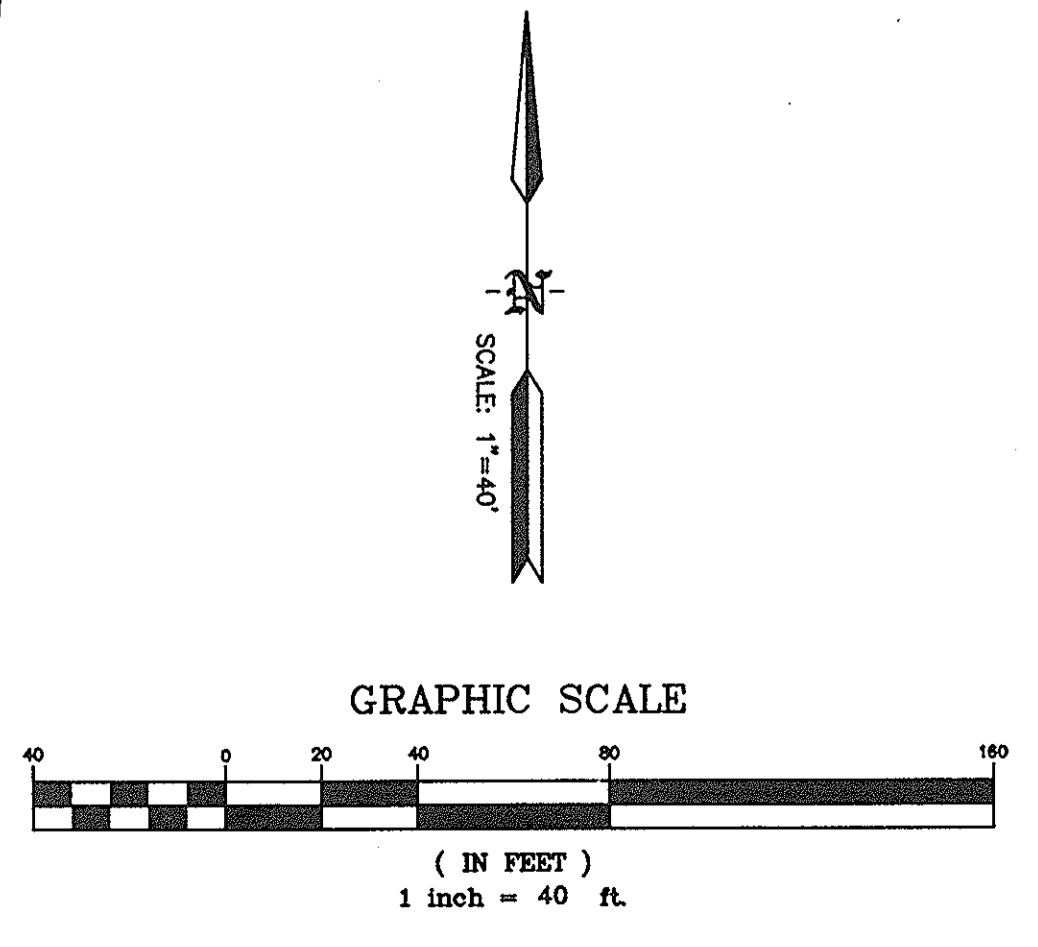
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|-----------|----------------|------------------|
| Des By LT | Scale 1" = 40' | Proj No. 2005058 |
| Drn By LT | Date 7/27/07 | DRAWING NO. |
| Chk By | Approved | 16 OF 16 |

SDP-07-012



PARCEL A
W. DEEMER CLASS SUBDIVISION
PLAT NO. 15849
ZONING M2

OWNER
 JESSUP ASPHALT PARTNERS, LP
 638 LANCASTER AVE.
 MALVERN, PA. 19355
 ATTN: CURTIS HALL
 PHONE: (610) 560-7913
 FAX: (610) 560-7921



TREE PROTECTIVE DEVICE YFD-G OPTION 3
 BLAZE ORANGE PLASTIC MESH