

SHEET INDEX	
#	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	PROFILES AND DETAILS
4	DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN
5	NOTES AND DETAILS
6	PLANTING PLAN

SITE DEVELOPMENT PLAN

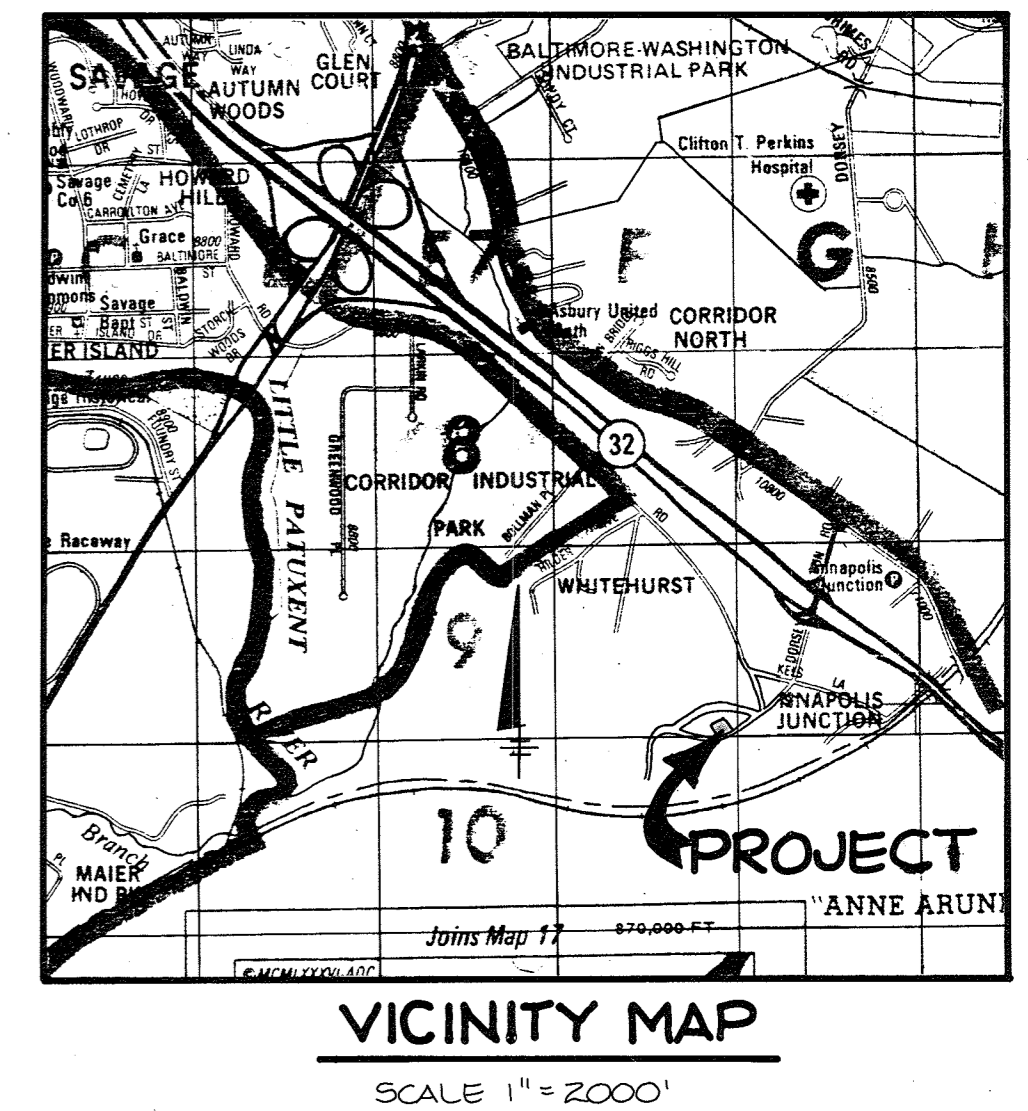
PARCEL J

THE JUNCTION INDUSTRIAL PARK

SECTION 2 AREA 1

6TH ELECTION DISTRICT

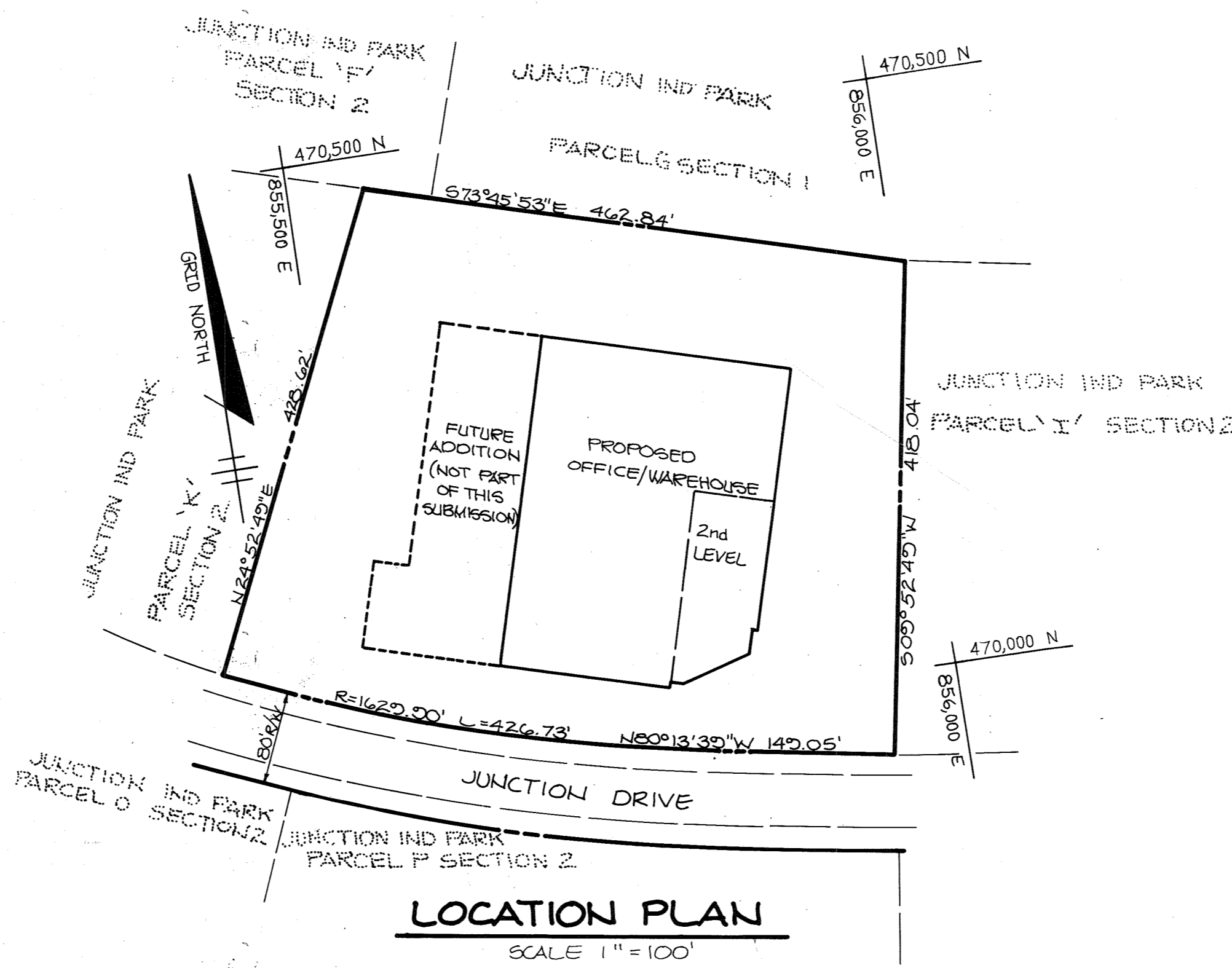
HOWARD COUNTY, MARYLAND



GENERAL NOTES

- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. FROM BEST AVAILABLE INFORMATION THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:

MISS UTILITY	1-800-257-7777
C & P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS & ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
- TOPO TAKEN FROM F-26-126
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2.01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- STORM WATER MANAGEMENT FOR THIS SITE IS PROVIDED BY A CENTRAL SWM FACILITY AS SHOWN AND APPROVED UNDER F-26-126, JUNCTION IND PARK SEC. 2 AREA 1.

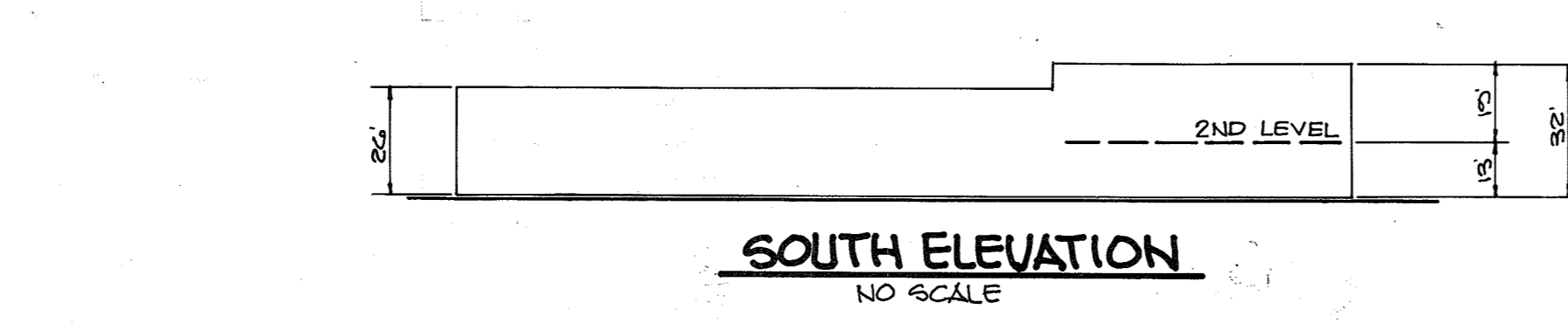
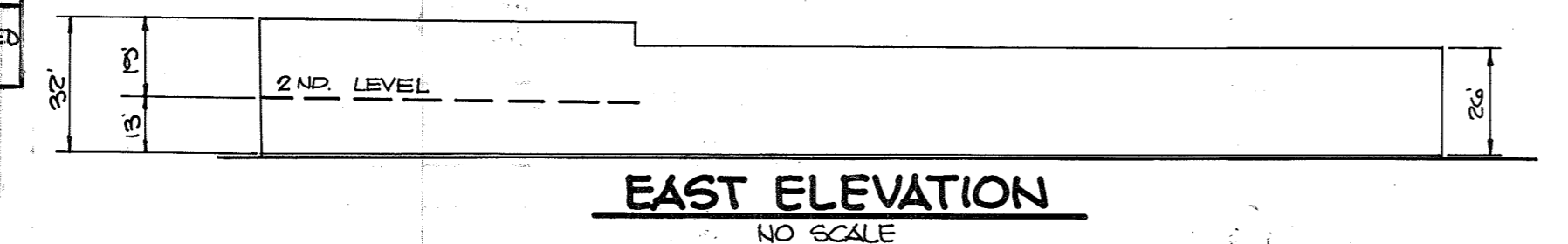


FLOOR AREA SUMMARY 10/2/19	CURRENT USE(SF)	PROPOSED USE(SF)
1ST FLOOR		
OFFICE	9550	9550
WAREHOUSE	48350	48350
TOTAL AREA 1ST FLOOR	57900	57900
2ND FLOOR		
OFFICE	4360	9448
WAREHOUSE	5608	0
TOTAL AREA 2ND FLOOR	9968	9448

Note: 1st floor warehouse to house modular SCIF, no additional employees associated with SCIF.

SITE TABULATION

TOTAL AREA THIS SUBMISSION	5.18 Ac. (225,641 S.F.)
EXISTING ZONING	M-2
PROPOSED USE	Office/Warehouse
BUILDING COVERAGE	66.2% OF (66.3%)
1st FLOOR TOTAL: 68255 SF	2ND FLOOR TOTAL: 11500 SF
OFFICE: 9550 SF	OFFICE: 9500 SF
WAREHOUSE: 58705 SF	WAREHOUSE: 7600 SF
OPEN SPACE REQUIRED	25% (56,410 S.F.)
OPEN SPACE PROVIDED	46.5% (104,980 S.F.)
PARKING REQUIRED (AS STATED IN LETTER)	25 Employees
# OF OFFICE EMPLOYEES	18 Spaces
# OF WAREHOUSE EMPLOYEES	59 Employees
# OF 1 SPACE/2 EMP.	30 Spaces
TOTAL PARKING REQUIRED	48 Spaces
TOTAL PARKING PROVIDED	74 Spaces
HANDICAPPED PARKING REQUIRED	3 Spaces
HANDICAPPED PARKING PROVIDED	3 Spaces
TOTAL PARKING AREA	22,806 S.F.
LANDSCAPED ISLANDS REQUIRED	1,140 S.F. (5%)
LANDSCAPED ISLANDS PROVIDED	1,710 S.F. (7.5%)



PARKING SUMMARY	EX. EMPLOYEES	NEW EMPLOYEES	GUESTS	TOTAL
	41	24	7	72

PER LETTER 6/11/19 - PARKED AT 1 SPACE/EMPLOYEE OR GUEST = 72 REQUIRED

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
J	2045 JUNCTION DRIVE

SUBDIVISION NAME	SECT./AREA	PARCEL
JUNCTION INDUSTRIAL PARK	2 / 1	J

PLAT # OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR
7146	18	M-2	48	6	6064

WATER CODE	SEWER CODE
C 04	4020000

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-29-87
AES

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
James H. Smith 4-28-88 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
William J. Smith 5-6-88 PLANNING DIRECTOR DATE

James H. Smith 5/2/88 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James H. Smith 4/22/88 DIRECTOR DATE

William J. Smith 4-22-88 CHIEF, BUREAU OF ENGINEERING DATE

10/31/19 4 REUSED USE TABLE AND PARKING, ADDED 8 SPACES
DATE NO REVISION

OWNER/DEVELOPER
Frank U. Jaret and Malcolm Jaret
CALICO INDUSTRIES
PO BOX 850
4721 BOSTON WAY
LANHAM, MARYLAND 20706

PROJECT: JUNCTION INDUSTRIAL PARK SECTION 2 AREA 1 PARCEL J OFFICE/WAREHOUSE

AREA JUNCTION INDUSTRIAL PARK SECTION 2 AREA 1 TAX MAP 48 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

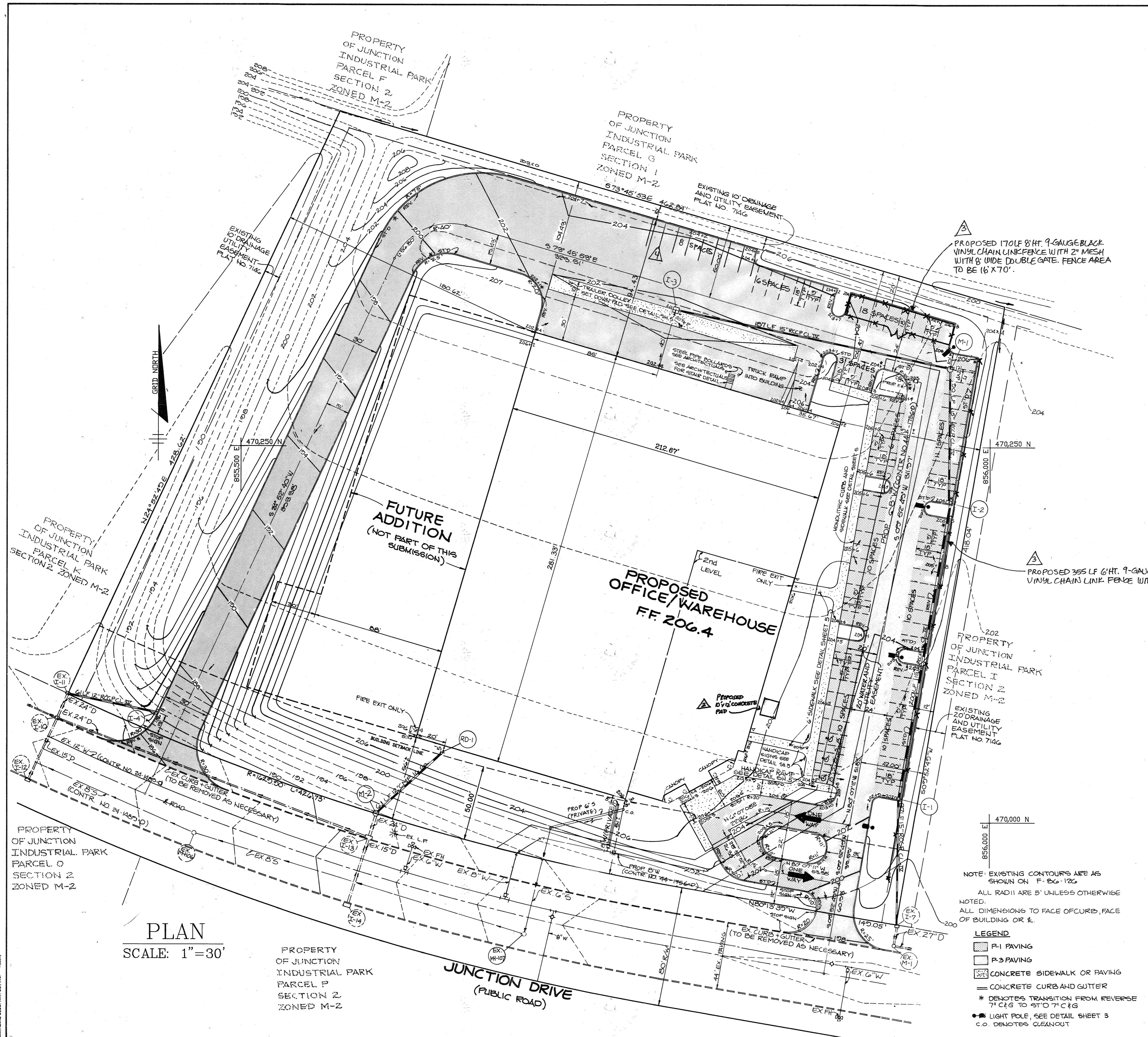
TITLE: TITLE SHEET

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2600

DATE 4-6-88

DESIGNED BY: CJR
DRAWN BY: DDB
PROJECT NO: 37200
DATE: SEPTEMBER 30, 1987
SCALE: AS SHOWN
DRAWING NO. 1 OF 6

ARTHUR E. MUEGGE # 8701



PLAN
SCALE: 1" = 30'

PROPERTY OF JUNCTION INDUSTRIAL PARK PARCEL P SECTION 2 ZONED M-2

JUNCTION DRIVE (PUBLIC ROAD)

NOTE: EXISTING CONTOURS ARE AS SHOWN ON F-26-126
ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
ALL DIMENSIONS TO FACE OF CURB, FACE OF BUILDING OR E.

- LEGEND
- P-1 PAVING
 - P-3 PAVING
 - CONCRETE SIDEWALK OR PAVING
 - CONCRETE CURB AND GUTTER
 - * DENOTES TRANSITION FROM REVERSE 7" C&G TO STD 7" C&G
 - LIGHT POLE, SEE DETAIL SHEET 3
 - DENOTES CLEANOUT

NOTE: THE LOD OF 200 SQ FT MAXIMUM IS EXEMPT FROM PROVIDING STORM WATER MANAGEMENT. ANY FUTURE INCREASE EXCEEDING 5000 SQ FT SHALL BE REQUIRED TO MEET CURRENT STORM WATER MANAGEMENT CRITERIA.

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 10-29-87
LKS

10/21/87	4	REVISED USE TABLE AND PAVING, ADDED 8 SPACES
4/19/87	3	ADD FENCES AND GATE
DATE NO.		REVISION

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

J. J. ... 4-28-88
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

W. ... 5.6.88
PLANNING DIRECTOR DATE

A. ... 5/2/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

J. ... 4/2/88
DIRECTOR DATE

R. ... 4-22-88
CHIEF, BUREAU OF ENGINEERING DATE

09/07/87	2	PROPOSED 10' X 12' CONCRETE PAD (ARJUN AELLG)
05/10/87	1	PROPOSED 10' X 10' CONCRETE PAD (ARJUN AELLG)
DATE NO.		REVISION

OWNER/DEVELOPER
FRANK W. JARET AND MALCOLM JARET
CALICO INDUSTRIES
PO BOX 850
4721 BOSTON WAY
LANHAM, MARYLAND 20706

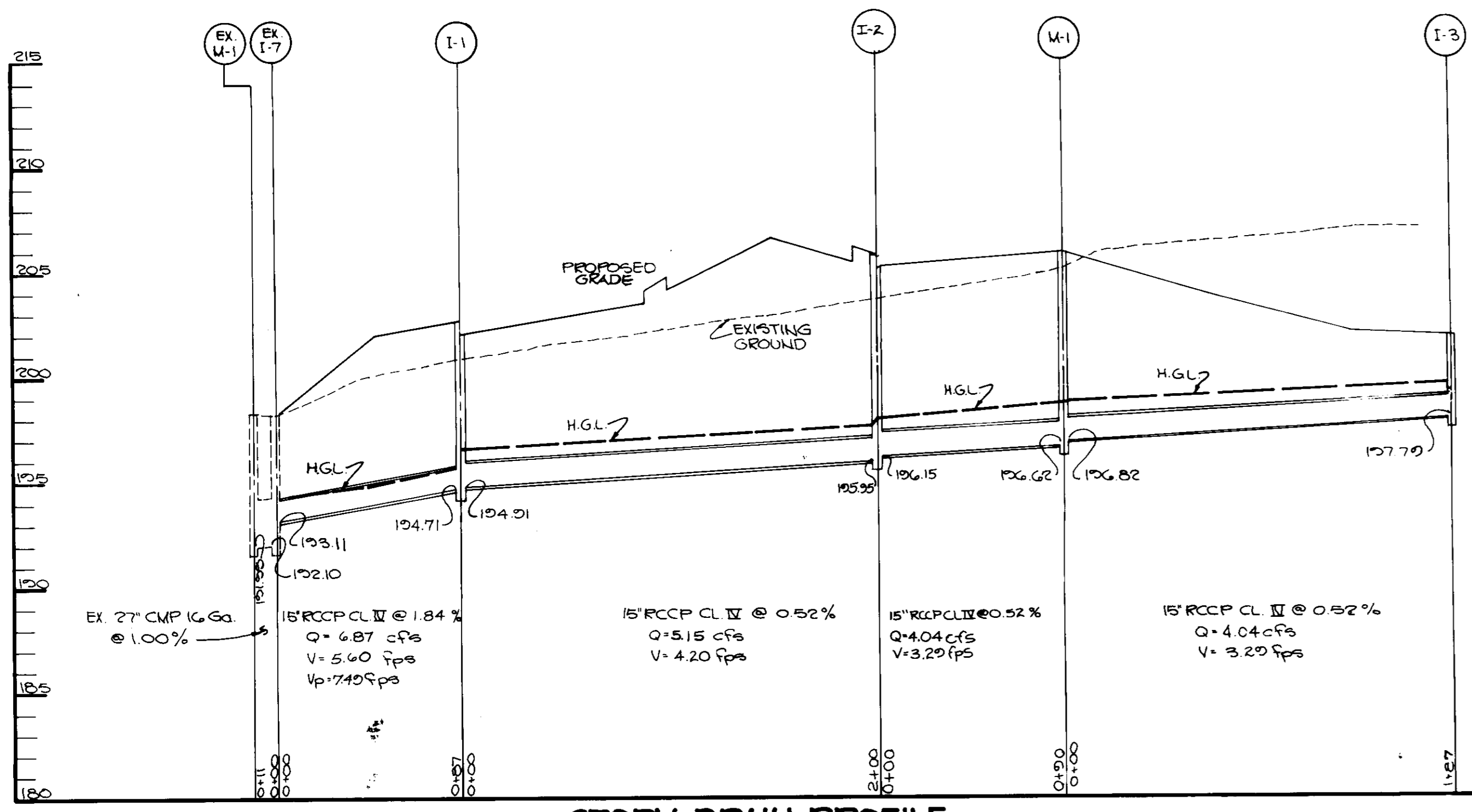
PROJECT: JUNCTION INDUSTRIAL PARK SECTION 2 AREA 1 PARCEL J OFFICE/WAREHOUSE

AREA: JUNCTION INDUSTRIAL PARK SECTION 2 AREA 1 PARCEL J 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

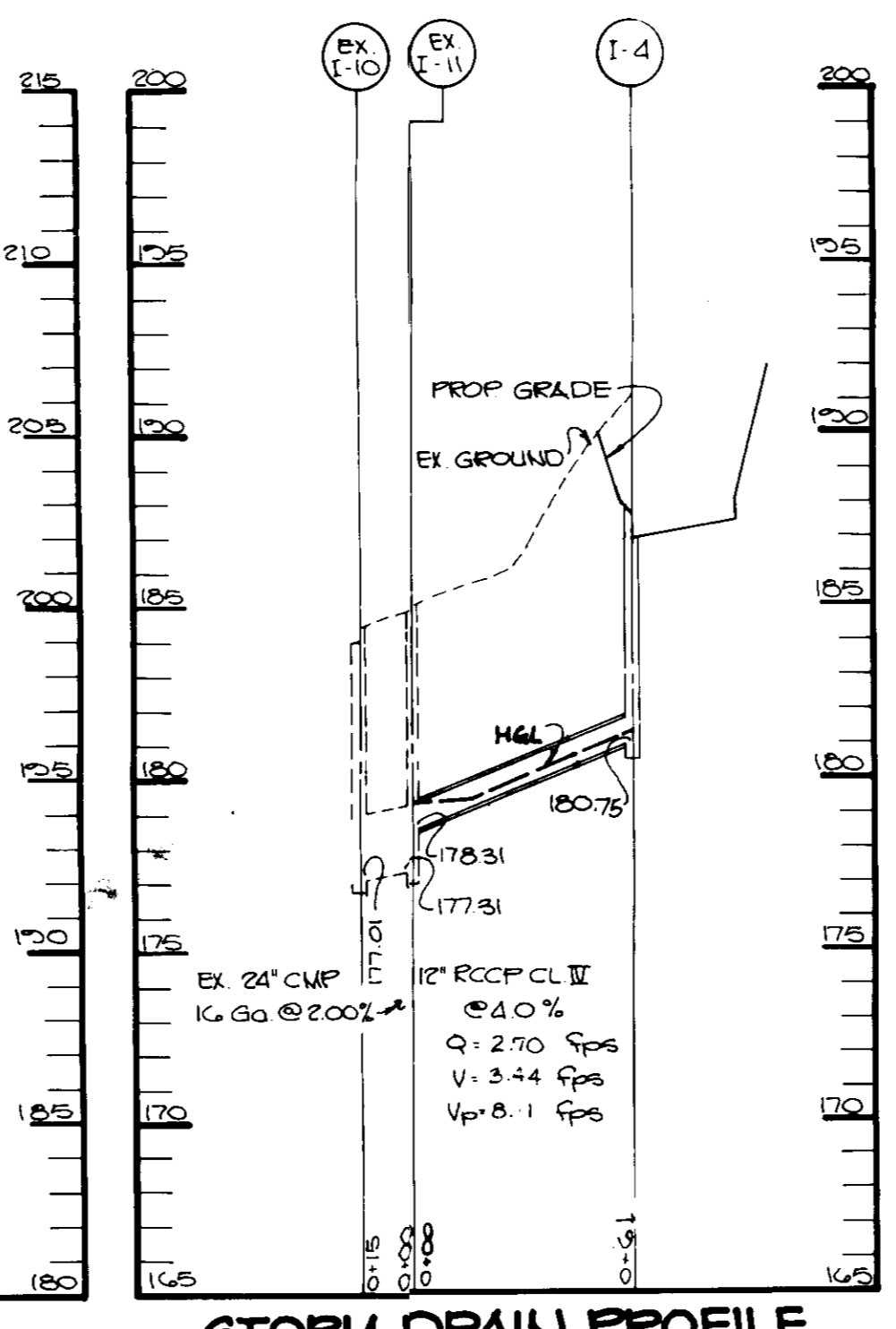
TITLE: SITE DEVELOPMENT PLAN

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2690

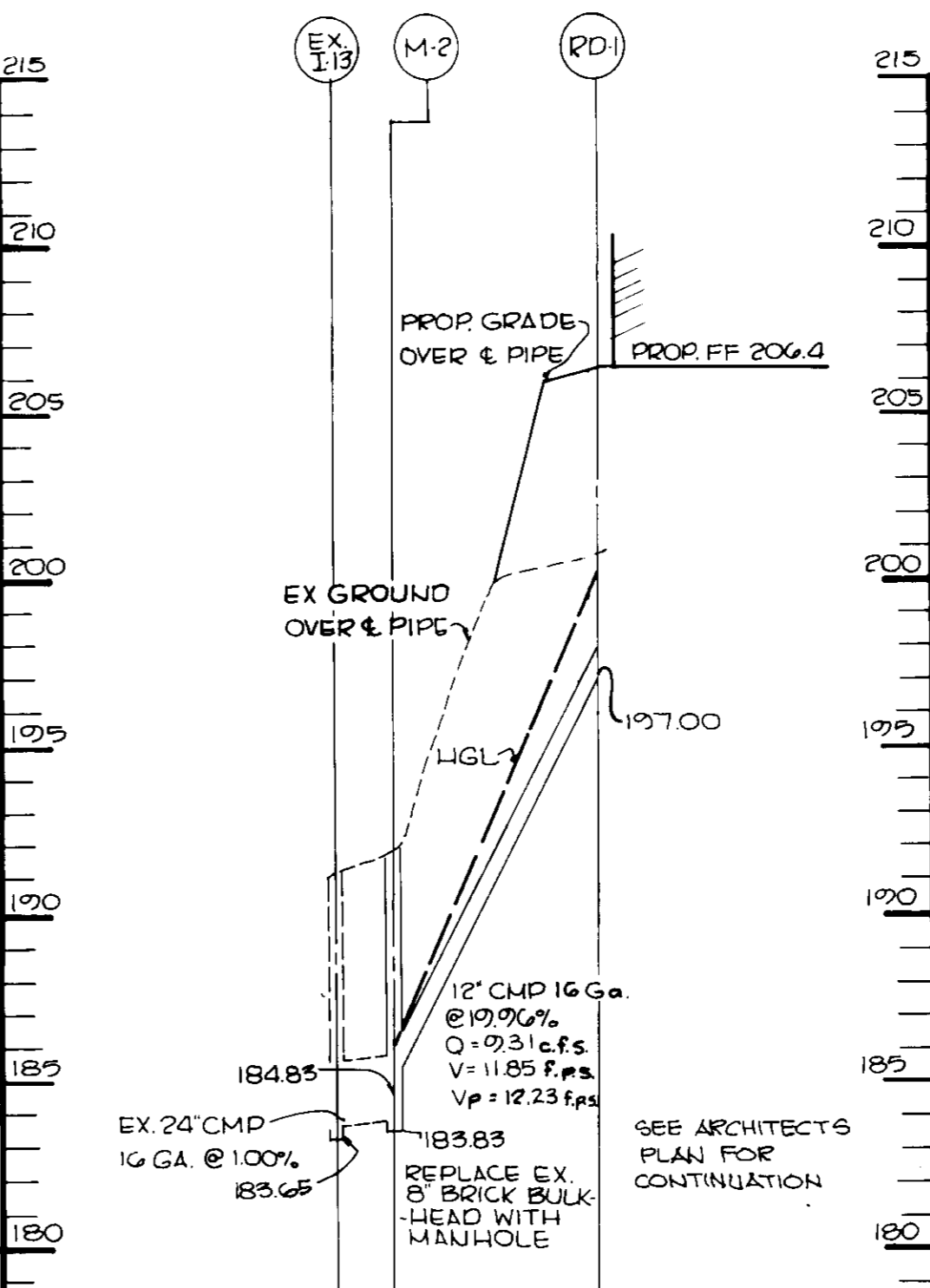
DATE: 4-6-86	DESIGNED BY: CJR
DATE: 10-29-87	DRAWN BY: DDB
DATE: SEPTEMBER 30, 1987	PROJECT NO: 37200
SCALE: AS SHOWN	DATE: SEPTEMBER 30, 1987
DRAWING NO. 2 OF 6	ARTHUR E. MUEGGE #2707



STORM DRAIN PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'

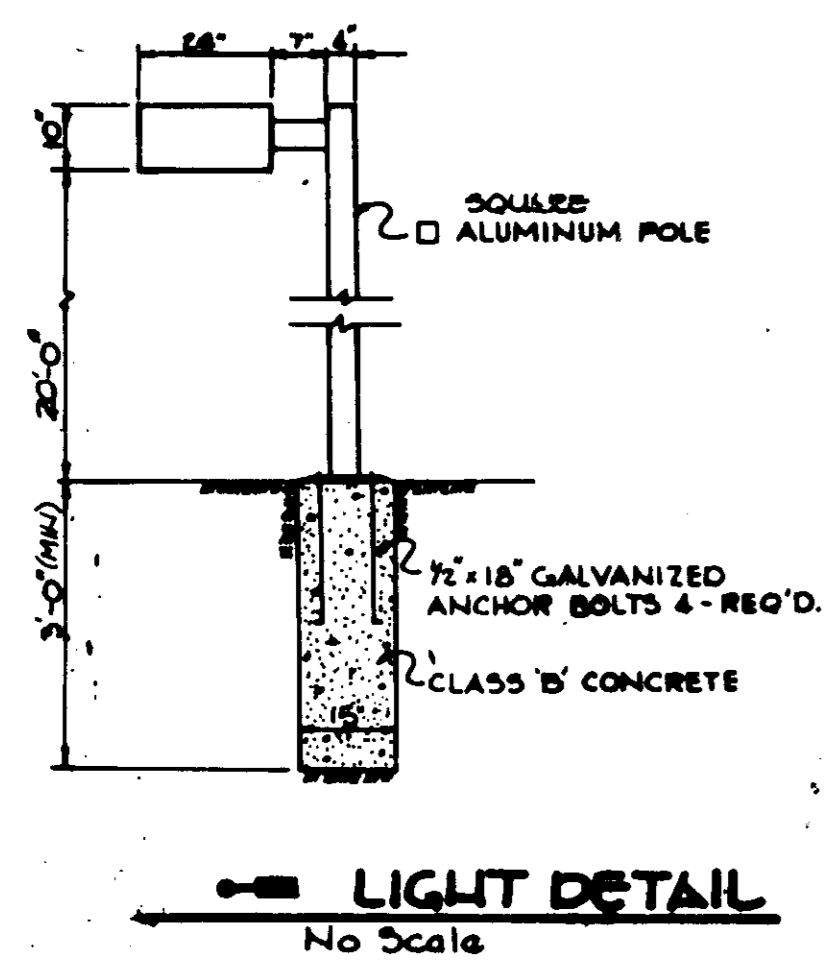


STORM DRAIN PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'

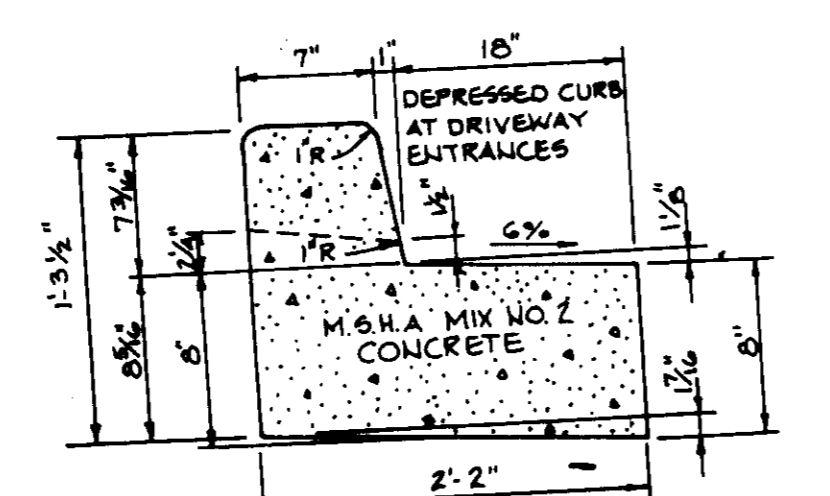


STORM DRAIN PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'

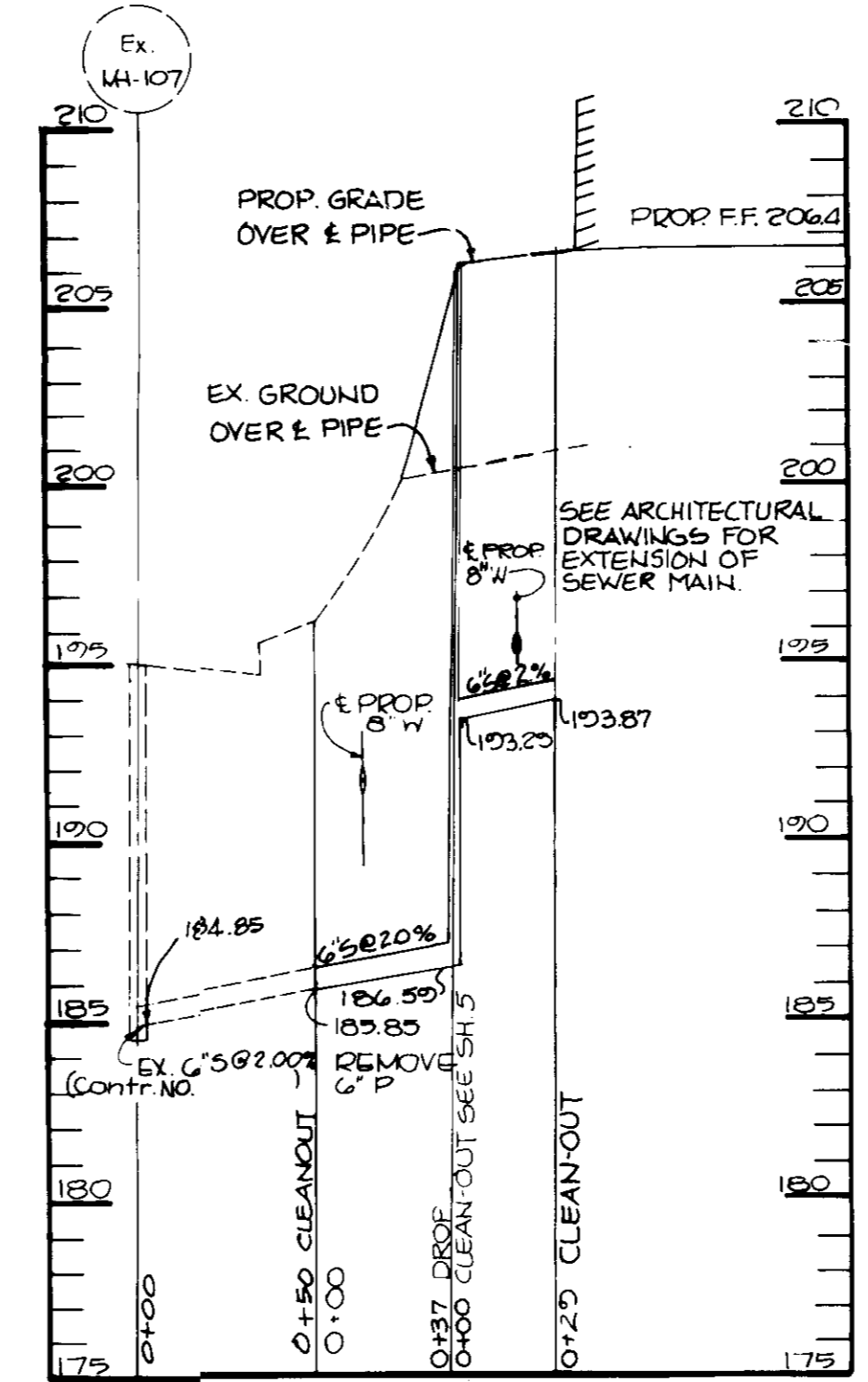
- NOTES:**
- ALL LIGHT FIXTURES TO BE SINGLE LUMINAIRE 400 WATT MERCURY TYPE 30" HIGH WITH METAL POLES AND DIRECTED DOWNWARD.
 - LOCATIONS OF LIGHT FIXTURES ARE ON THE PLAN AND ARE SHOWN THIS WAY.
 - LIGHTS TO BE MODULE II TYPE AS MANUFACTURED BY MOLDCAST OR APPROVED EQUAL.
 - POLE AND FIXTURE TO HAVE BLACK POLYESTER ENAMEL FINISH.
 - POLE TO BE LOCATED 5' BACK FROM BACK OF CURB.



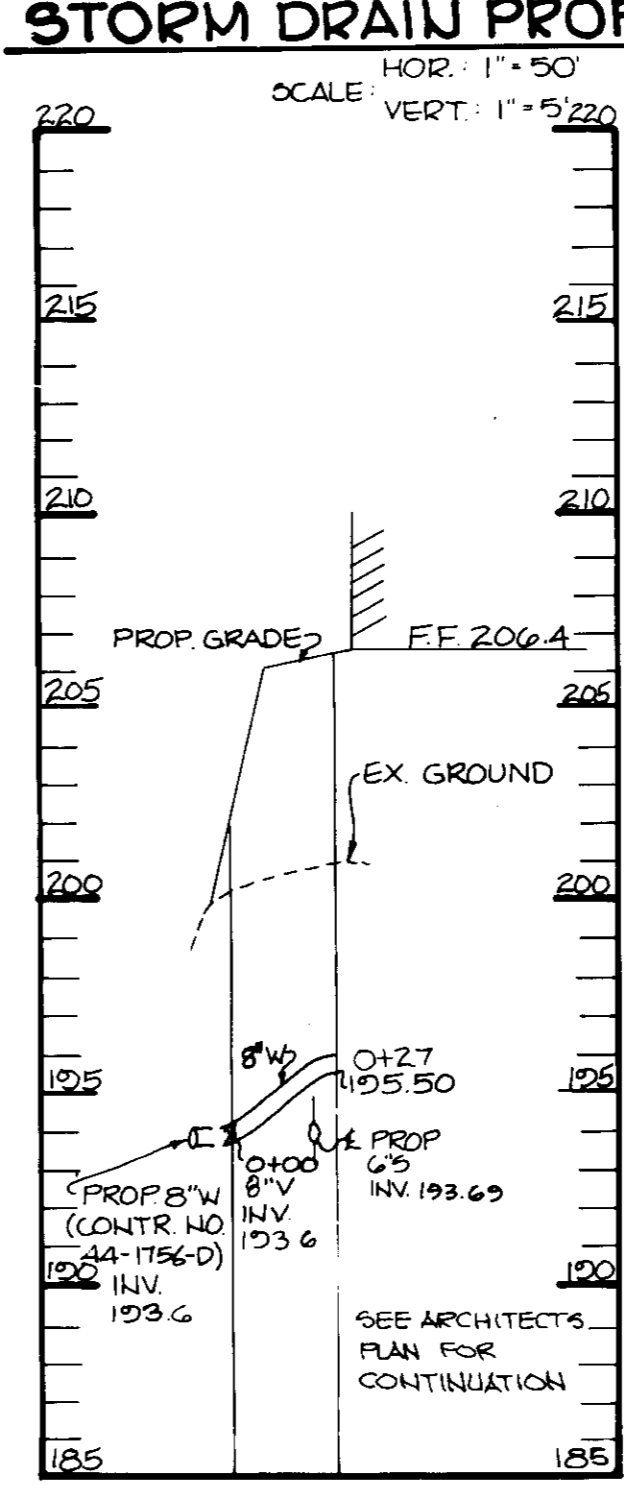
LIGHT DETAIL
No Scale



REVERSE 7" COMBINATION CURB AND GUTTER
No Scale



SEWER PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'



WATER PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Joan Zelen 4-28-88
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
W. H. ... 5.6.88
PLANNING DIRECTOR DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND LAND DEVELOPMENT.
James M. Smith 5/2/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James M. Smith 4/2/88
DIRECTOR DATE

W. ... 4-22-88
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER
FRANK U. JARET AND MALCOLM JARET
CALICO INDUSTRIES
P.O. BOX 850
4721 BOSTON WAY
LANHAM, MARYLAND 20706

PROJECT: JUNCTION INDUSTRIAL PARK
SECTION 2 AREA 1 PARCEL J
OFFICE/WAREHOUSE

AREA: JUNCTION INDUSTRIAL PARK
SECTION 2, AREA 1 TAX MAP 4B
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **PROFILES & DETAILS**

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 10-29-87
ARS

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2880

DATE: 4-6-88

DESIGNED BY: CJR
DRAWN BY: M.A.D.
PROJECT NO: 37200
DATE: SEPTEMBER 30, 1987
SCALE: AS SHOWN
DRAWING NO. 3 OF 6

Arthur E. Muegge
ARTHUR E. MUEGGE #3107
PROFESSIONAL ENGINEER

NO.	TYPE	LOCATION	IN ₁ IN	IN ₂ OUT	TOP OF CURB OR RIM ELEVATION	REMARKS
I-1	15" Comb w/ Ret Grate	See Plan	194.91	194.71	202.70	Ho. Co. Std. SD 4.32 & 4.93
I-2	15" Comb w/ Ret Grate	See Plan	196.15	195.95	205.90	Ho. Co. Std. SD 4.32 & 4.93
I-3	15" Grate	See Plan	—	197.70	201.60	Ho. Co. Std. SD 4.22 & 4.92
I-4	A-5 w/ Deflectors	See Plan	—	180.76	187.40	Ho. Co. Std. SD 4.01 & 4.83
M-1	4'-0" STD Precast Manhole	See Plan	196.82	196.62	206.93	Ho. Co. Std. SD 05.12
M-2	4'-0" STD Precast Manhole	See Plan	184.83	183.83	191.90	Ho. Co. Std. SD 05.12

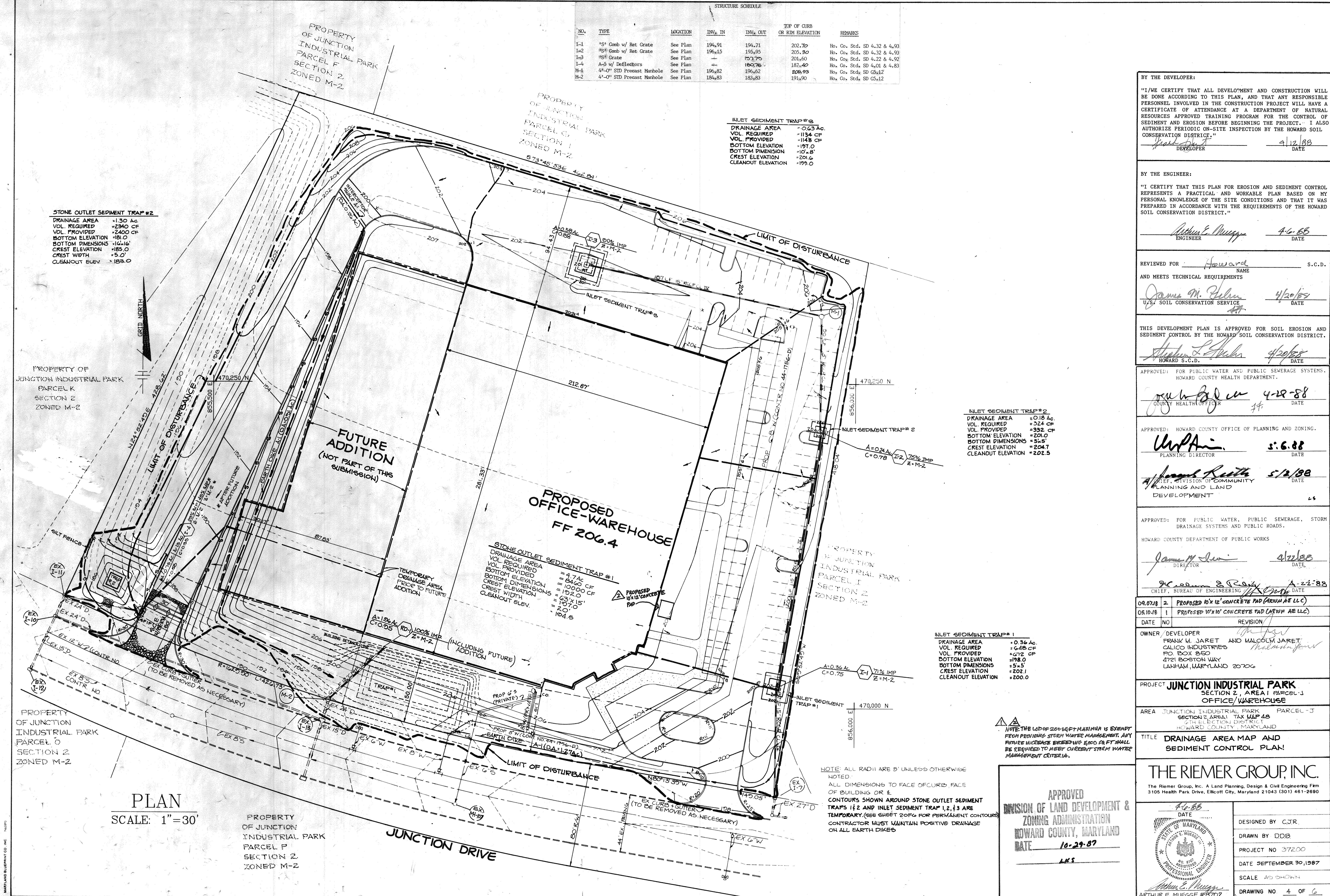
INLET SEDIMENT TRAP #3
 DRAINAGE AREA = 0.63 Ac.
 VOL. REQUIRED = 1134 CF
 VOL. PROVIDED = 1148 CF
 BOTTOM ELEVATION = 197.0
 BOTTOM DIMENSION = 10'-8"
 CREST ELEVATION = 201.6
 CLEANOUT ELEVATION = 199.0

STONE OUTLET SEDIMENT TRAP #2
 DRAINAGE AREA = 1.30 Ac.
 VOL. REQUIRED = 2340 CF
 VOL. PROVIDED = 2400 CF
 BOTTOM ELEVATION = 181.0
 BOTTOM DIMENSIONS = 16'-11"
 CREST ELEVATION = 185.0
 CREST WIDTH = 5.0'
 CLEANOUT ELEV. = 183.0

INLET SEDIMENT TRAP #2
 DRAINAGE AREA = 0.18 Ac.
 VOL. REQUIRED = 324 CF
 VOL. PROVIDED = 332 CF
 BOTTOM ELEVATION = 201.0
 BOTTOM DIMENSIONS = 5'-5"
 CREST ELEVATION = 204.7
 CLEANOUT ELEVATION = 202.5

INLET SEDIMENT TRAP #1
 DRAINAGE AREA = 0.36 Ac.
 VOL. REQUIRED = 648 CF
 VOL. PROVIDED = 672 CF
 BOTTOM ELEVATION = 198.0
 BOTTOM DIMENSIONS = 5'-5"
 CREST ELEVATION = 202.1
 CLEANOUT ELEVATION = 200.0

STONE OUTLET SEDIMENT TRAP #1
 DRAINAGE AREA = 4.7 Ac.
 VOL. REQUIRED = 8460 CF
 VOL. PROVIDED = 10000 CF
 BOTTOM ELEVATION = 152.0
 BOTTOM DIMENSIONS = 63' x 15'
 CREST ELEVATION = 157.0
 CREST WIDTH = 10'-8"
 CLEANOUT ELEV. = 154.5



PLAN
 SCALE: 1" = 30'

PROPERTY OF JUNCTION INDUSTRIAL PARK
 PARCEL P
 SECTION 2
 ZONED M-2

NOTE: ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
 ALL DIMENSIONS TO FACE OF CURB, FACE OF BUILDING OR E.
 CONTOURS SHOWN AROUND STONE OUTLET SEDIMENT TRAPS #2 AND INLET SEDIMENT TRAP 1, 2, 3 ARE TEMPORARY (SEE SHEET 206 FOR PERMANENT CONTOURS). CONTRACTOR MUST MAINTAIN POSITIVE DRAINAGE ON ALL EARTH DIKES.

NOTE: THE LOD OF 200 SQ FT MAXIMUM IS EXEMPT FROM PROVIDING STORM WATER MANAGEMENT. ANY FUTURE INCREASE EXCEEDING 1500 SQ FT SHALL BE REQUIRED TO MEET CURRENT STORM WATER MANAGEMENT CRITERIA.

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 NATURAL RESOURCES 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."
 Developer: *Frank W. Jaret* DATE: 4/12/88

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."
 Engineer: *Arthur E. Muegge* DATE: 4/6/88

REVIEWED FOR: *Howard* NAME: S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS
James M. Helms DATE: 4/20/88
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Stephen L. Helms DATE: 4/20/88
 HOWARD S.C.D.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
John W. ... DATE: 4-12-88
 COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
U.P.A. DATE: 5-6-88
 PLANNING DIRECTOR
James ... DATE: 5/2/88
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James ... DATE: 4/22/88
 DIRECTOR
John ... DATE: 4-22-88
 CHIEF, BUREAU OF ENGINEERING

09.07.88 2. PROPOSED 10'x12' CONCRETE PAD (ARJUN AE LLC)
 05.10.88 1. PROPOSED 10'x10' CONCRETE PAD (ARJUN AE LLC)
 DATE NO. REVISION
 OWNER DEVELOPER: FRANK W. JARET AND MALCOLM JARET, CALICO INDUSTRIES, PO. BOX 850, 4721 BOSTON WAY, LANHAM, MARYLAND 20706

PROJECT: JUNCTION INDUSTRIAL PARK SECTION 2, AREA I PARCEL J OFFICE/WAREHOUSE
 AREA: JUNCTION INDUSTRIAL PARK SECTION 2, AREA I TAX MAP 48 PARCEL J 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN

THE RIEMER GROUP, INC.
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
 3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-2690

DATE: 4-6-88
 DESIGNED BY: CJR
 DRAWN BY: DDB
 PROJECT NO: 37200
 DATE: SEPTEMBER 30, 1987
 SCALE: AS SHOWN
 DRAWING NO: 4 OF 6

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 10-29-87
 L.E.S.

PROFESSIONAL ENGINEER
 ARTHUR E. MUEGGE #8707

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Soil Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Seeding: Apply 8-20-20 fertilizer at the rate of 400 lbs. per acre. For the period March 1 thru April 30, and August 1 thru October 15, seed with 40 lbs. per acre (1 lb./1000 sq. ft.) of a mixture of certified "Marion" Kentucky bluegrass, common Kentucky bluegrass # 40, 20 lbs. per acre (0.5 lb./1000 sq. ft.) for the period May 1 thru July 31, seed with 40-20-20 mix as specified above and 2 lbs. per acre (0.05 lb./1000 sq. ft.) of seeding phosphorus. During the period of October 16 thru February 28, pretest site by (Option 1) 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring. (Option 2) Use seed. (Option 3) Seed with 40-20-20 mix specified above and mulch with 2 tons/acre well-anchored straw.

Seeding: Apply 15 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of mulched small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallon per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallon per acre (8 gal./1000 sq. ft.) for anchoring.

Inspection: Inspect all seeded areas and make needed repairs, replacements and reseeding.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Soil Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Seeding: Apply 600 lbs. per acre 18-10-10 fertilizer (14 lbs./1000 sq. ft.) where soil is highly acidic, apply dolomitic limestone at the rate of 1 ton per acre.

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 140 lbs. per acre of annual ryegrass (3.2 lb./1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of vernal lespedeza (0.07 lb./1000 sq. ft.). For the period from September 15 thru February 28, pretest site by applying 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring, or seed.

Seeding: Apply 15 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of mulched small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 ft. or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. For rules and methods not covered.

SEEDING CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (999-2437)
- All vegetative and structural practices are to be installed according to the specifications in this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within 7 calendar days for all perimeter sediment control structures, dikes, post-tension slopes and all slopes greater than 3:1. b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, for permanent stabilization (Sec. 31) and (Sec. 34). Temporary seeding (Sec. 30) and mulching (Sec. 32). Temporary stabilization with which alone can only be done when recommended seeding dates do not allow for proper preparation and establishment of grass.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permanent for their removal has been obtained from the Howard County Sediment Control Inspector.

Site Analysis

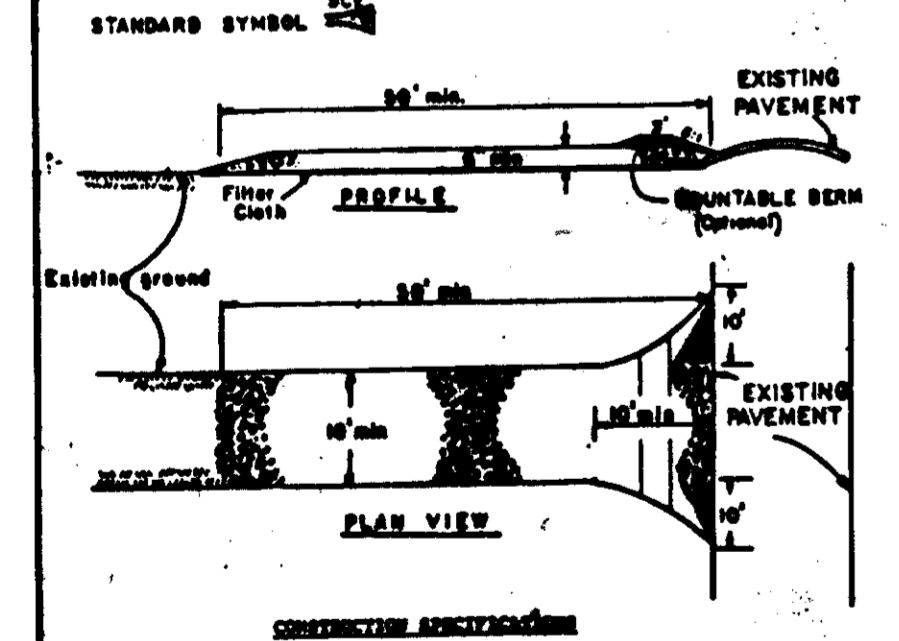
Total Area of Site: _____ acres
 Area Disturbed: _____ acres
 Area to be reseeded or planted: _____ acres
 Area to be vegetatively stabilized: _____ acres
 Total: _____ acres

Any sediment control practices which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

Additional sediment controls must be provided, if deemed necessary by the Howard County SW sediment control inspector.

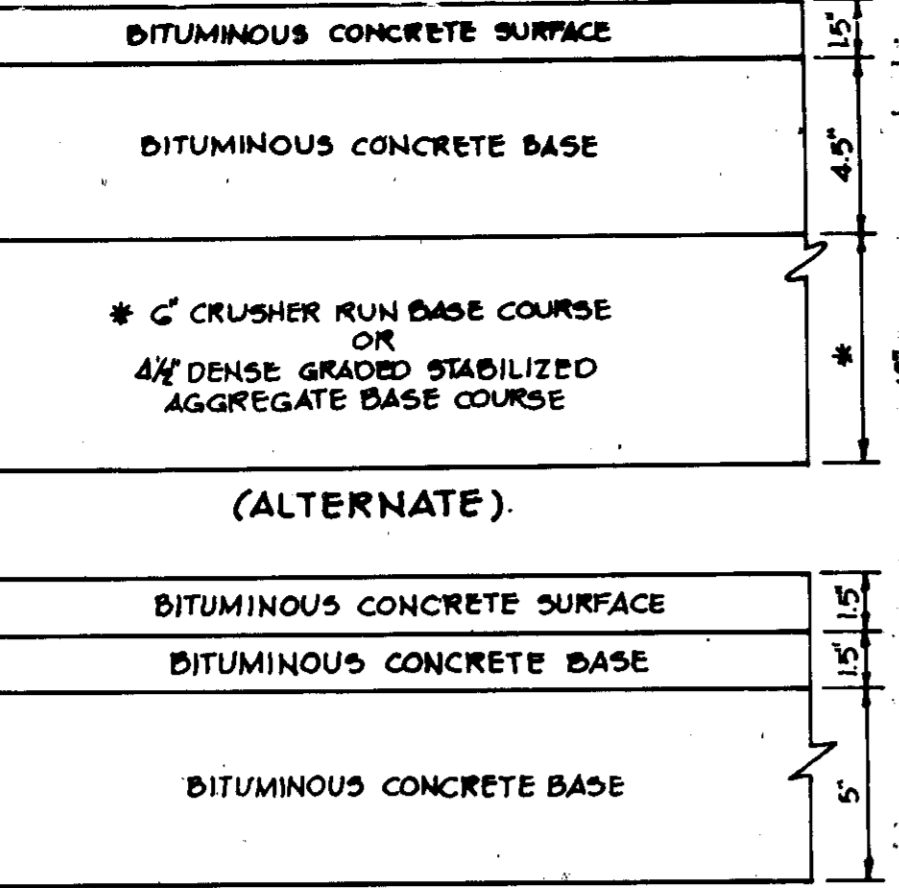
Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.

Sediment will be removed from traps when its depth reaches the clean out elevation shown on the plans.

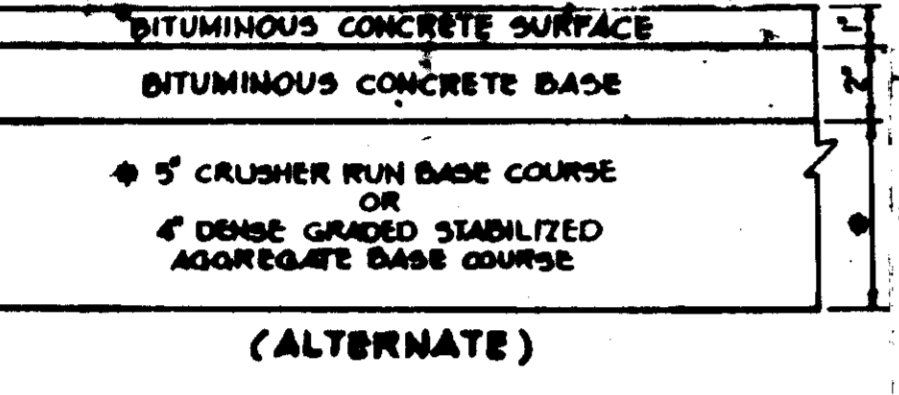


STABILIZED CONSTRUCTION ENTRANCE
NO SCALE

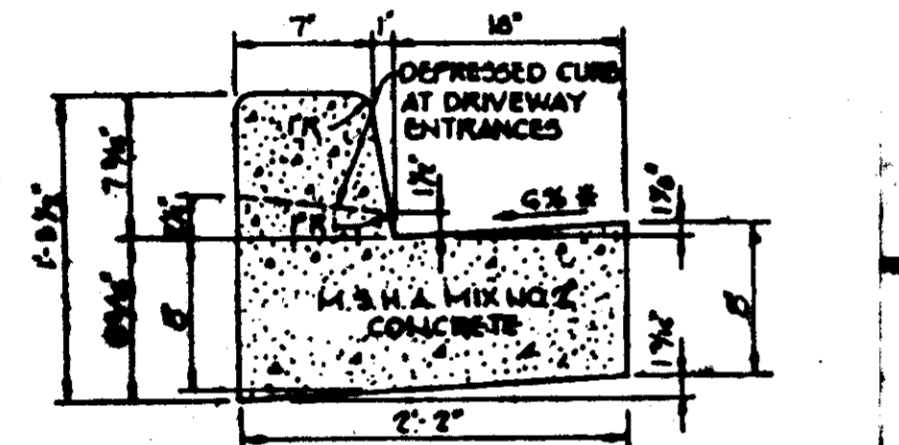
- Some size - 36" stone, or crushed or recycled concrete equivalent.
- Length - As required, but not less than 36 feet (except on a single road - those less than 36 feet shall be 36 feet long).
- Distance - Not less than 10 feet from the curb.
- Width - 36" (18" from curb, but not less than the full width at outside where top or other curbs).
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be replaced on a single family residential lot.
- Bottom Stone - All surface water flows or directed toward construction entrance shall be filtered across the entrance. If piping is impractical, a minimum 6" diameter pipe shall be installed in a condition which will prevent the possibility of sediment onto public right-of-way. All and repair any/any element of any entrance used to help conditions around sediment control. Deposed, moved or located onto public right-of-way must be removed immediately.
- Warning - Stone shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Perforated impervious and sealed relationships shall be provided after each gain.



HOWARD COUNTY DESIGN MANUAL VOLUME III - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)
(8" PAVING, P-3)

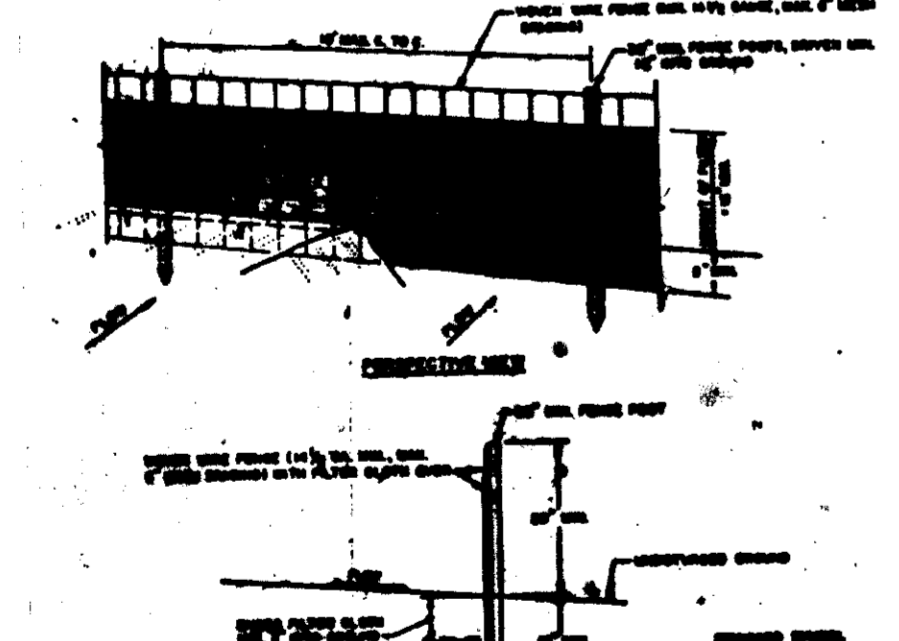


HOWARD COUNTY DESIGN MANUAL VOLUME III - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)
(5" PAVING, P-1)



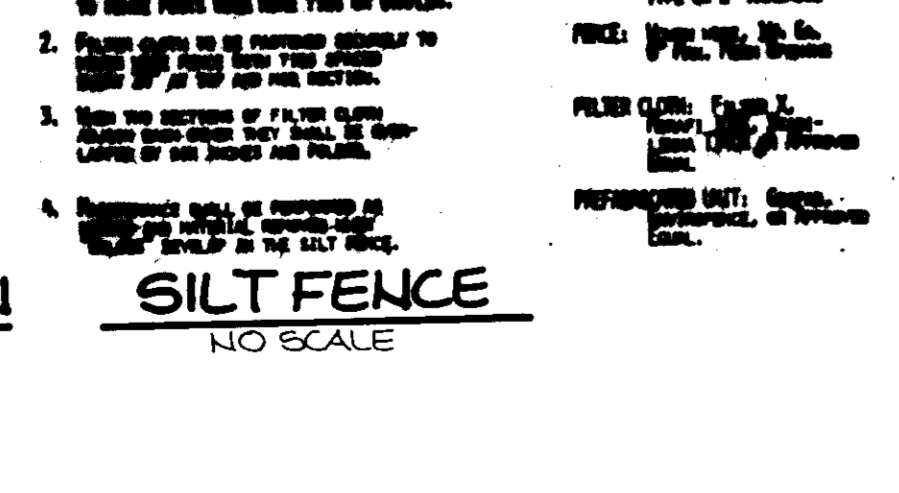
HOWARD COUNTY DESIGN MANUAL VOLUME III - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)
SE GUTTER RUN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AS THE PAVEMENT.

STANDARD 7" COMBINATION CURB AND GUTTER
NO SCALE

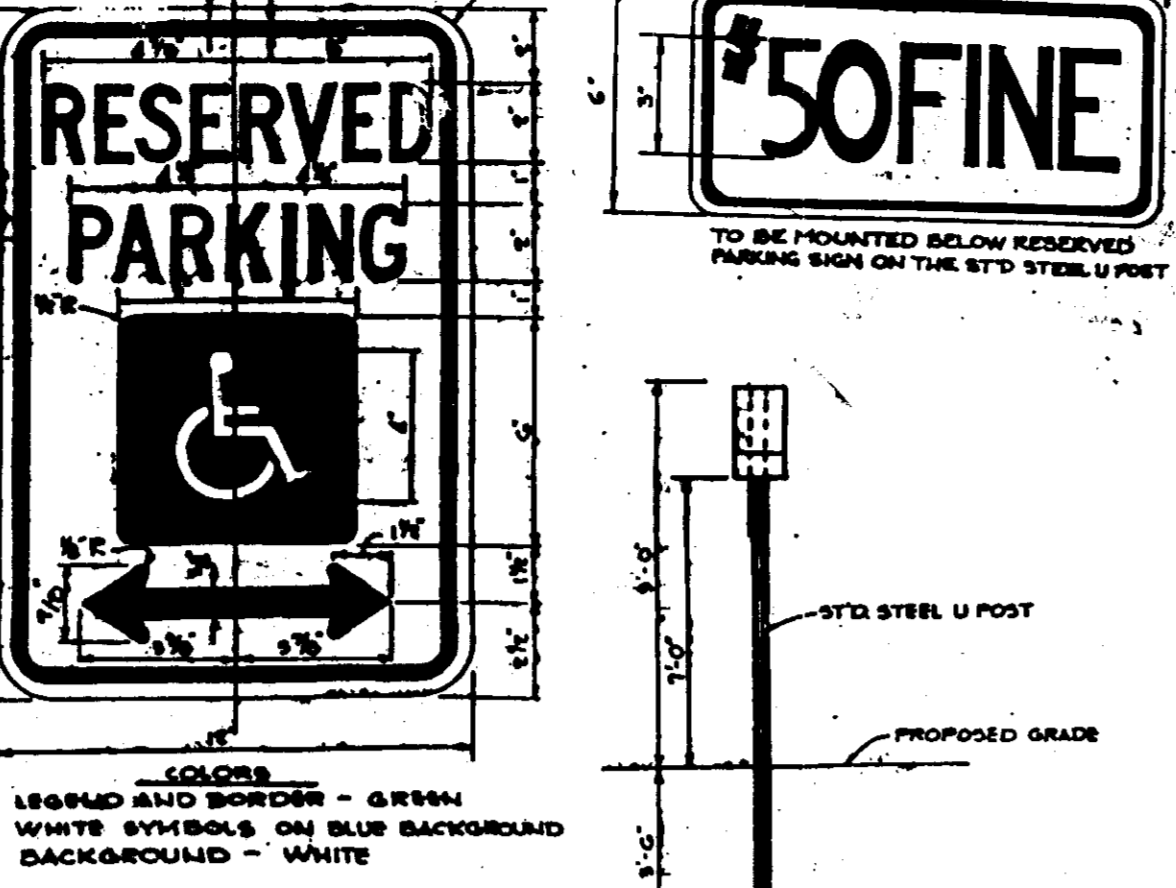


STANDARD SYMBOL

EXISTING PAVEMENT
 EXISTING CURB
 EXISTING GUTTER
 EXISTING SIDEWALK

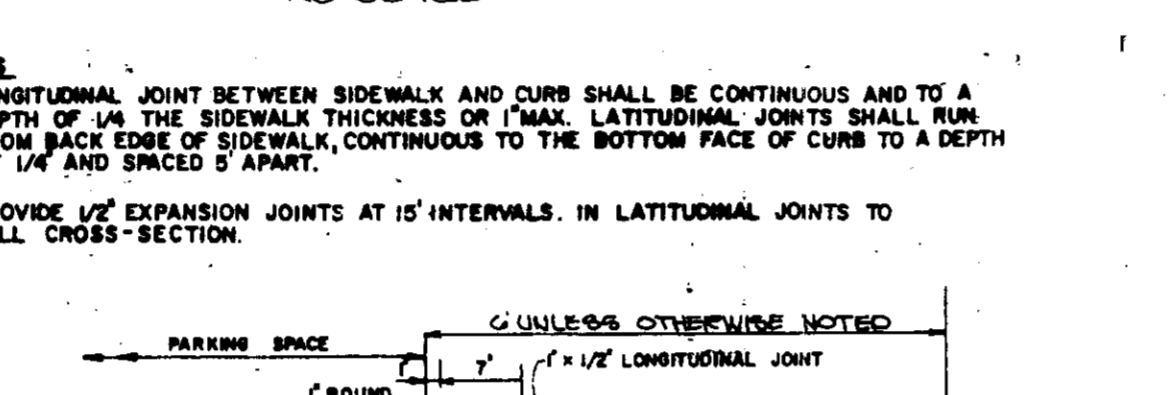


SILT FENCE
NO SCALE

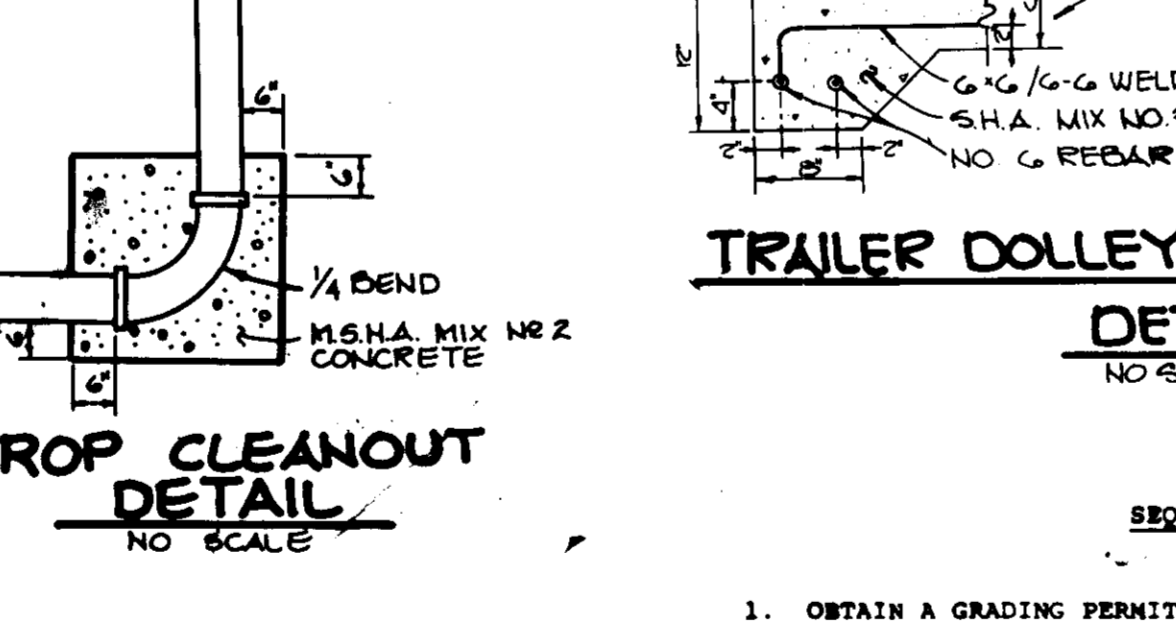
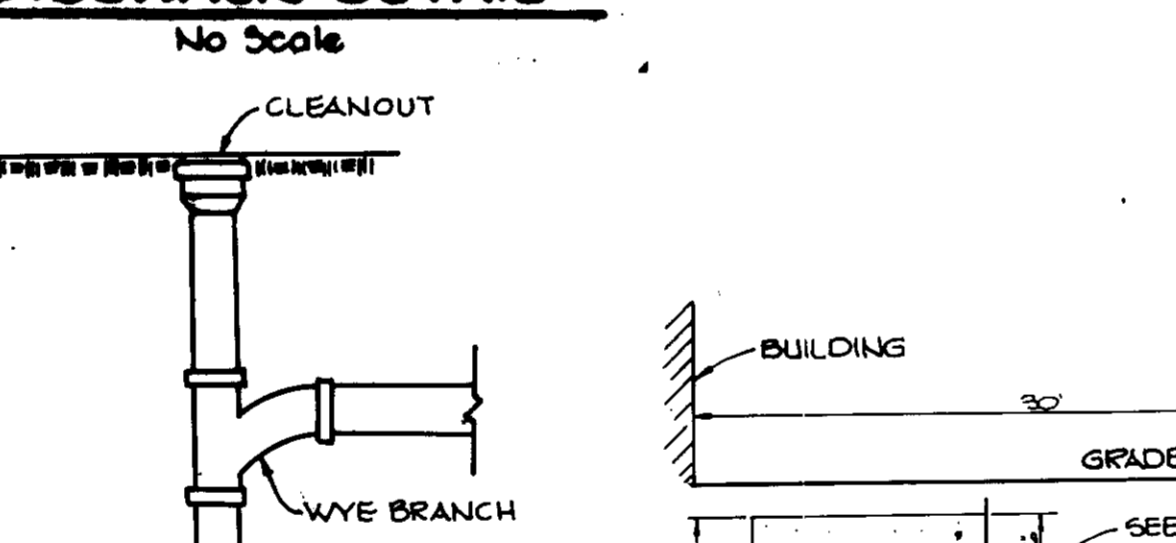
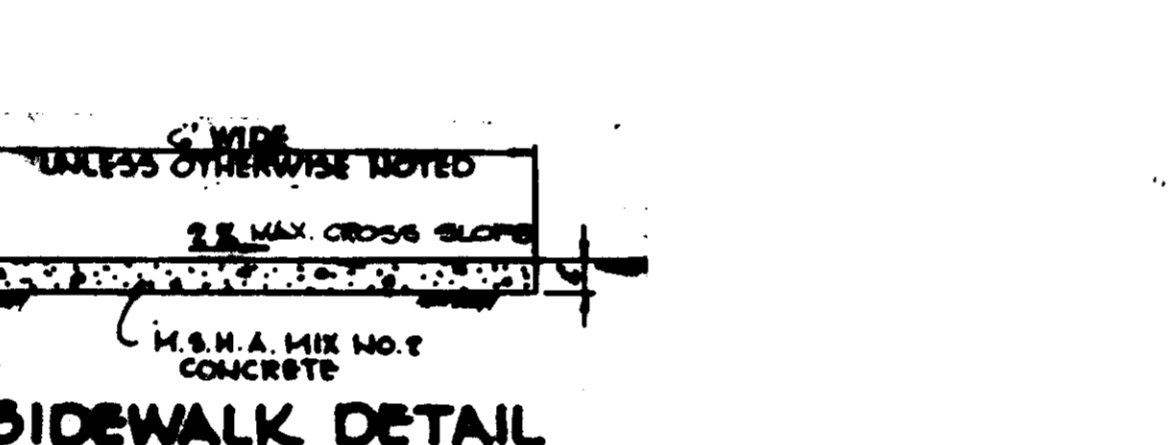


HANDICAP SIGN DETAIL
NO SCALE

LEGEND AND DIMENSIONS - GREEN WHITE SYMBOLS ON BLUE BACKGROUND BACKGROUND - WHITE



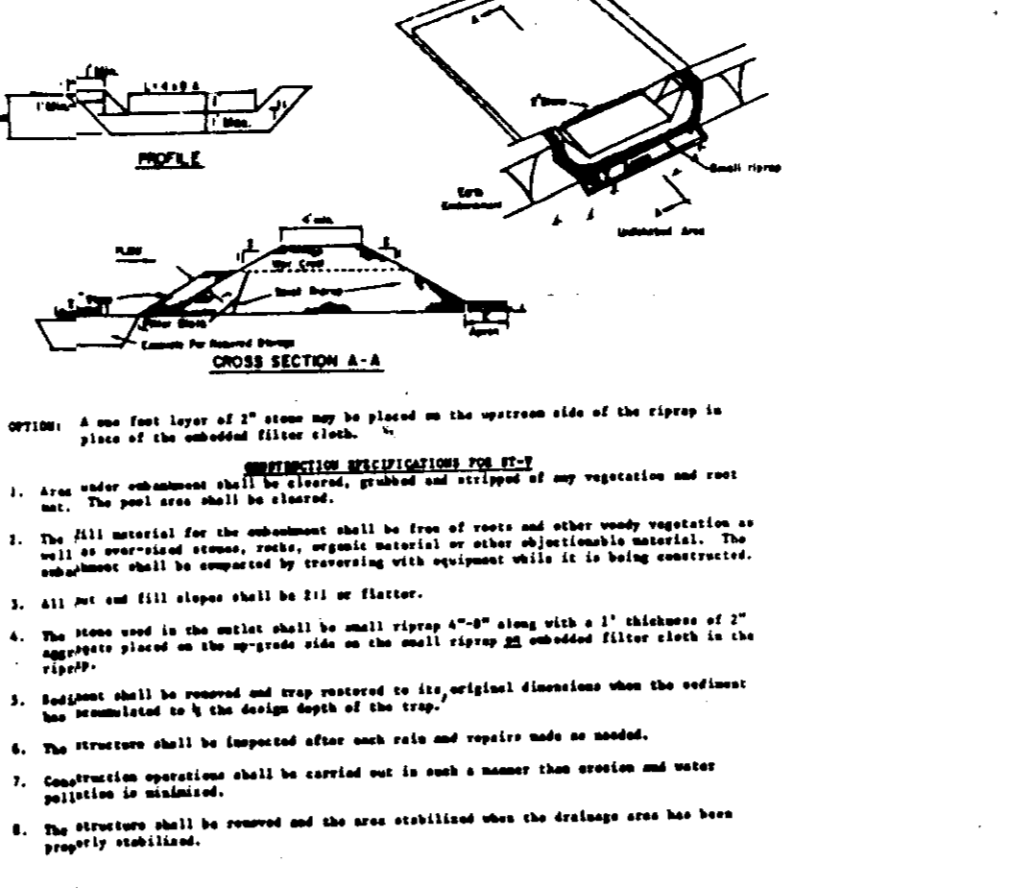
MONOLITHIC CURB AND SIDEWALK
NO SCALE



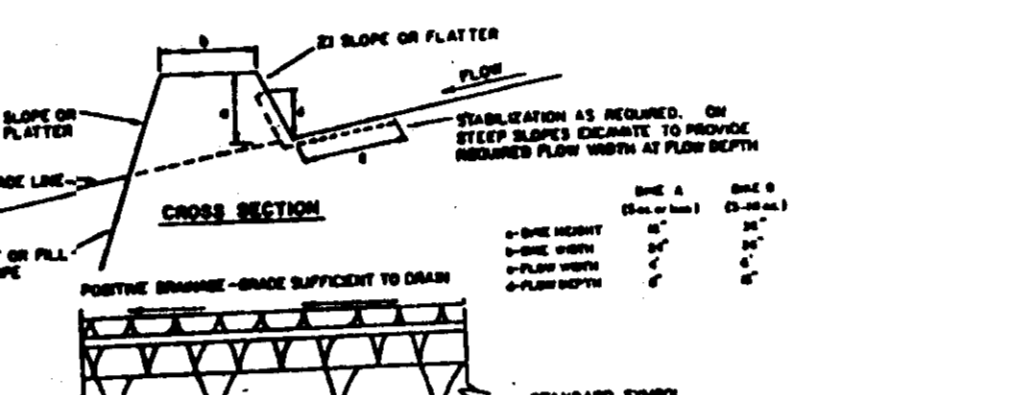
TRAILER DOLLY SETDOWN PAD DETAIL
NO SCALE

SEQUENCE OF CONSTRUCTION

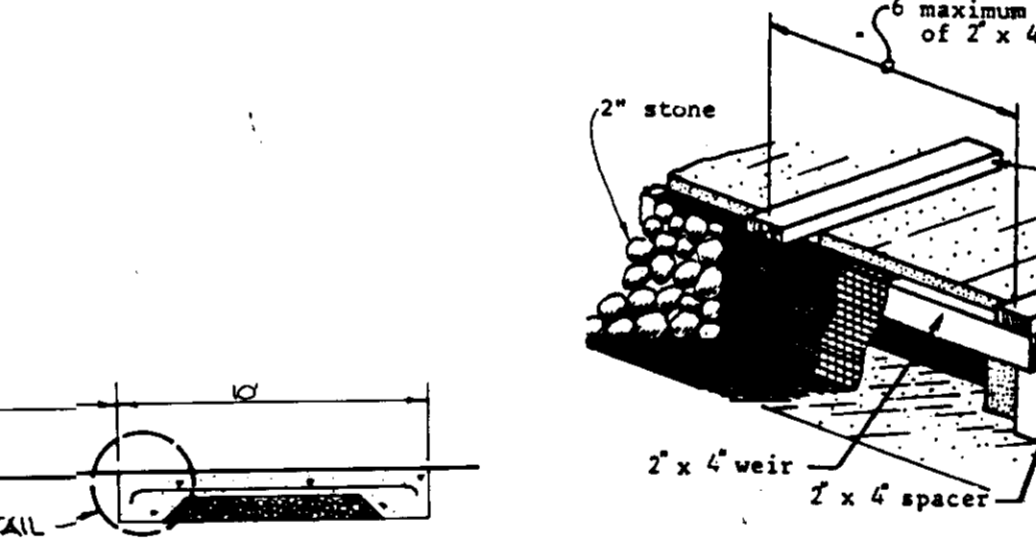
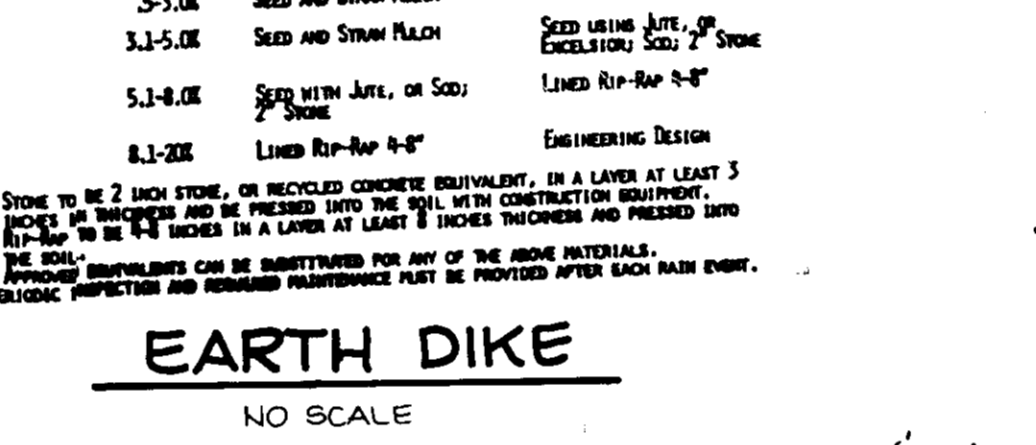
- OBTAIN A GRADING PERMIT.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILTFENCE, EARTH DIKE, TEMPORARY SWALE AND STONE OUTLET SEDIMENT TRAP #1. (4 days)
- PERFORM ROUGH GRADING. (2 weeks)
- INSTALL STORM DRAINS (EXCEPT I-4 TO EX. I-11), SEDIMENT TRAPS AT I-1, I-2, & I-3. (1 week)
- INSTALL REMAINING UTILITIES. (1 week)
- COMPLETE REMAINING CONSTRUCTION ACTIVITIES (EXCEPT I-4 TO EX. I-11). (8 weeks)
- STABILIZE ALL DISTURBED AREA IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (3 days)
- UPON PERMISSION OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROLS AND STABILIZE ANY AREAS DISTURBED IN THEIR REMOVAL IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES. (3 days)
- INSTALL STORM DRAIN FROM I-4 TO EX. I-11. STABILIZE ALL DISTURBED AREA IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (2 days)



STONE OUTLET SEDIMENT TRAP
NO SCALE



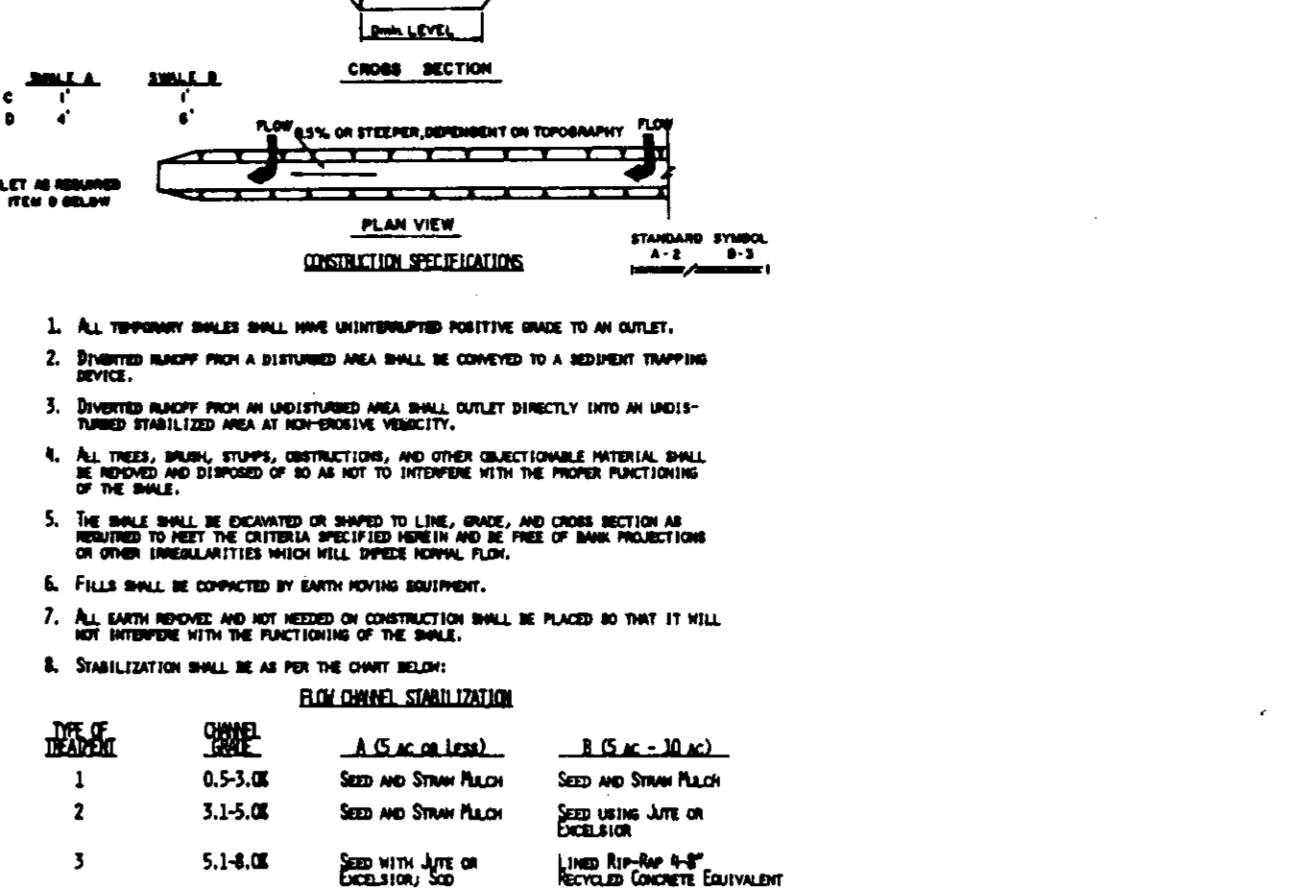
INLET SEDIMENT TRAP
NO SCALE



HANDICAP RAMP
NO SCALE

STONE FILTER INLET PROTECTION NOTES

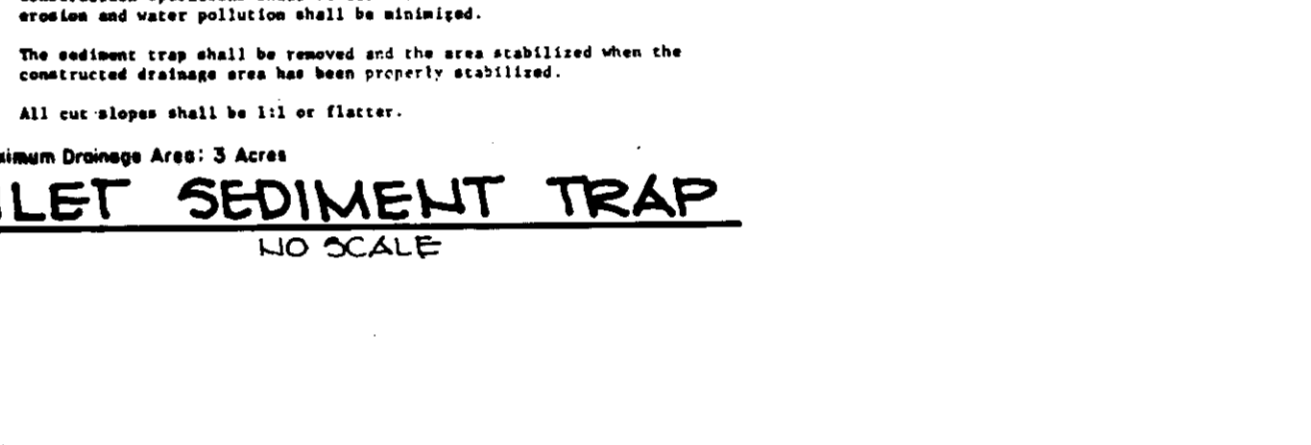
- Materials
- Wooden frame is to be constructed of 2" x 4" construction grade lumber.
- Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.
- Filter cloth must be of a type approved for this purpose resistant to sunlight with a minimum 200, 40-55, to allow sufficient passage of water and prevent sediment.
- Stone is to be 3/4" in size and clean, since fines would clog the cloth.
- Curb Inlet Protection
- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
- Place a piece of approved filter cloth (40-55 mesh) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
- Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6' apart).
- Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
- The assembly shall be placed so that the spacers are at minimum 1' beyond both ends of the throat opening.
- Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
- This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.



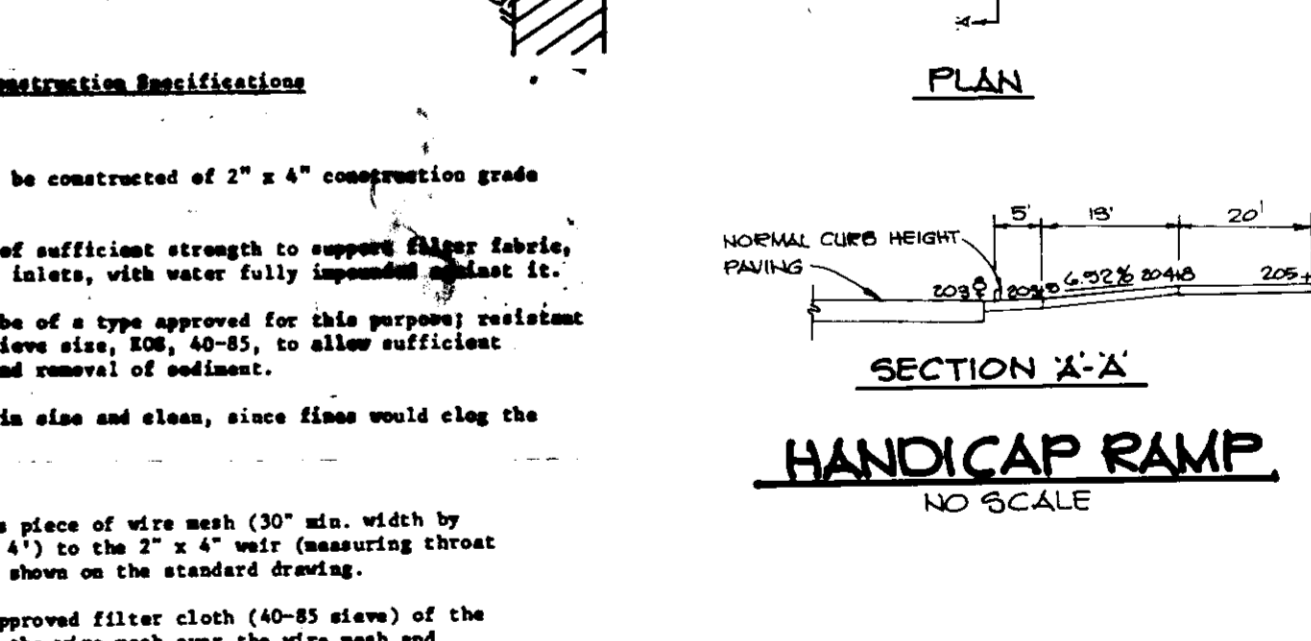
TEMPORARY SWALE
NO SCALE



STONE FILTER INLET
NO SCALE



STONE FILTER INLET
NO SCALE



STONE FILTER INLET
NO SCALE

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 NATURAL RESOURCES 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.

Arthur E. Muegge
 ENGINEER
 DATE: 4/12/88

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.

James M. Helm
 U.S. SOIL CONSERVATION SERVICE
 DATE: 4/20/88

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Stephen L. Helm
 HOWARD S.C.D.
 DATE: 4/20/88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

John J. Lee
 COUNTY HEALTH OFFICER
 DATE: 4-28-88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

William
 PLANNING DIRECTOR
 DATE: 5-6-88

APPROVED: DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

James M. Helm
 DIRECTOR
 DATE: 5/12/88

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

James M. Helm
 DIRECTOR
 DATE: 5-22-88

CHIEF, BUREAU OF ENGINEERING

OWNER/DEVELOPER
 FRANK M. JARET AND MALCOLM JARET
 CALICO INDUSTRIES
 PO BOX 850
 4721 BOSTON WAY
 LANHAM, MARYLAND 20706

PROJECT: JUNCTION INDUSTRIAL PARK
 SECTION 2 AREA 1 PARCEL J
 OFFICE/WAREHOUSE

AREA: JUNCTION INDUSTRIAL PARK
 SECTION 2 AREA 1 PARCEL J
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

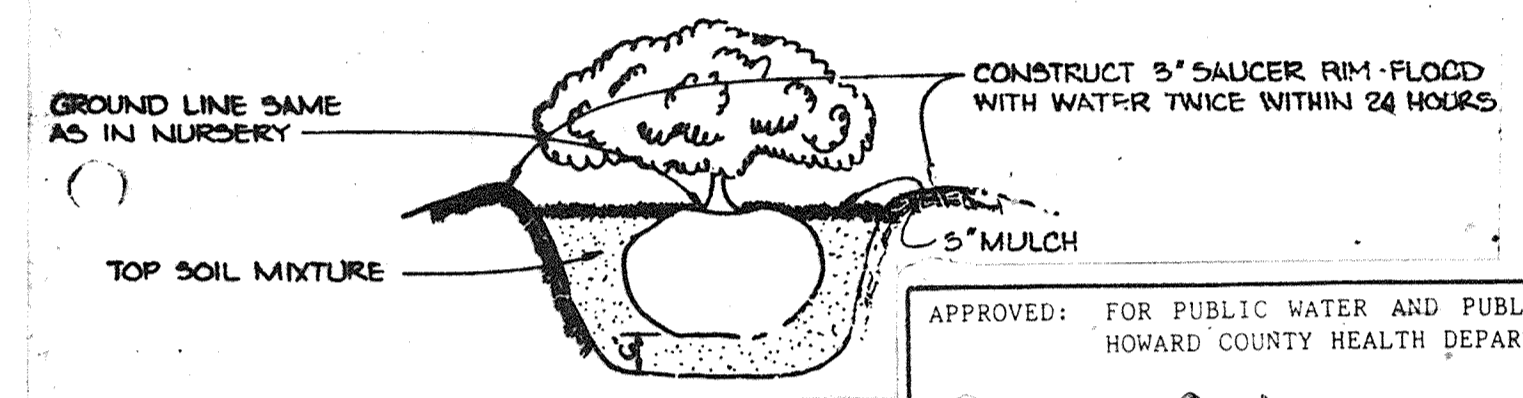
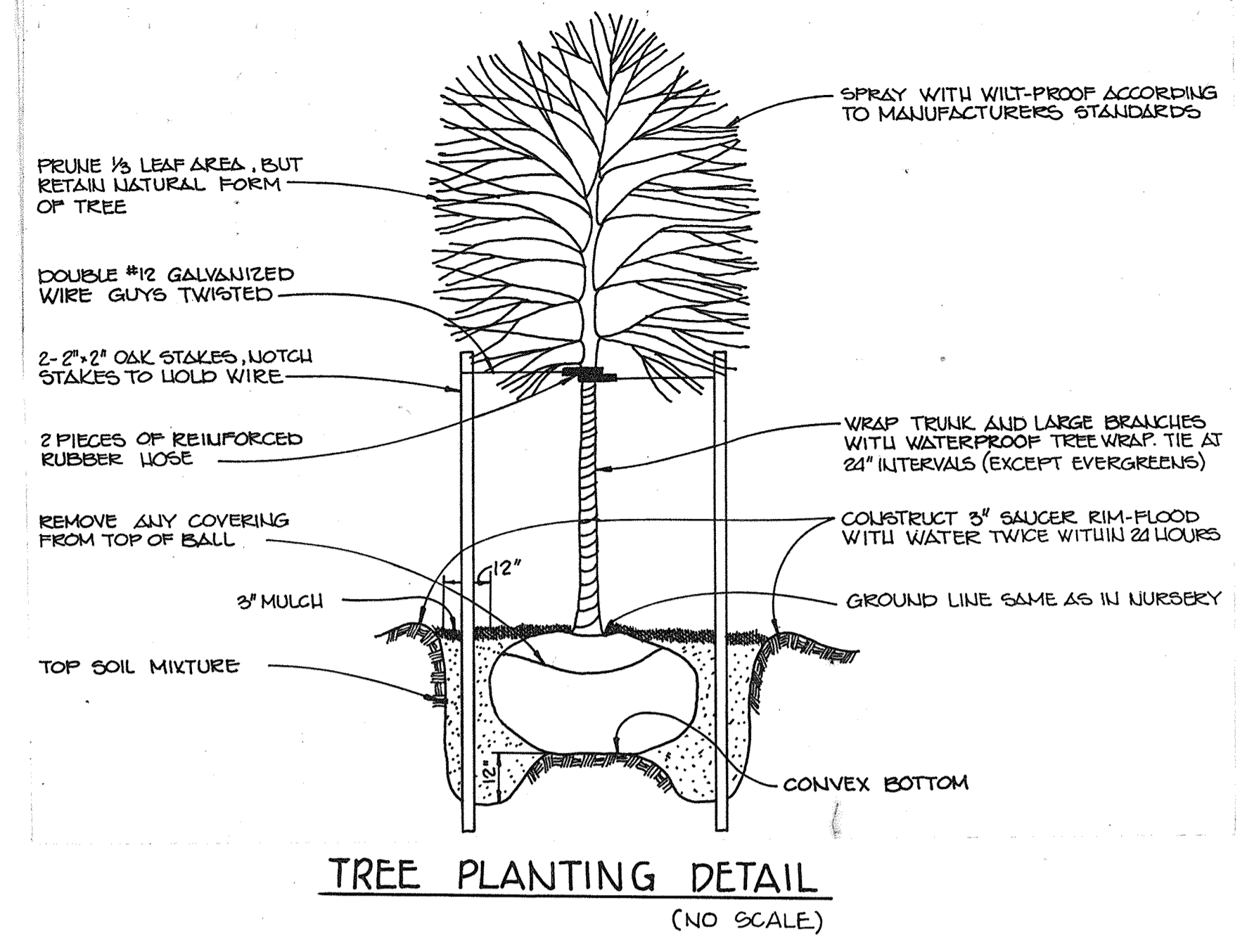
TITLE:
NOTES AND DETAILS

THE RIEMER GROUP, INC.
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
 3105 Heister Park Drive, Ellicott City, Maryland 21043 (301) 461-2800

DESIGNED BY: CUR
 DRAWN BY: DOB
 PROJECT NO: 37200
 DATE: SEPTEMBER 30, 1987
 SCALE: AS SHOWN
 DRAWING NO: 5 OF 6

APPROVED
 DIVISION OF LAND DEVELOPMENT
 ZONING
 HOWARD COUNTY, MARYLAND
 DATE: 10-29-87
 AKS

Qty.	Symbol	Name	Size	Remarks
TREES				
20	L	LIQUIDAMBAR STYRACIFLUA Sweet Gum	2-2 1/2" Cal., 13-15' Ht.	B&B, Full Head
6	M	MALUS X ZLMI 'CALOCARPA' Redbud Crab	1 3/4-2" Cal., 8'-10' Ht.	B&B, Full Head
1	Od	CEDRUS DEODARA Deodara Cedar	6-8' Ht.	B&B, Unsheared
14	P	PINUS STROBUS White Pine	2 1/2" Cal., 6-8' Ht.	B&B, Well Branched, Unsheared
SHRUBS				
16	C	COTONEASTER APICULATA Cranberry Cotoneaster	18-24" SPD	Container
14	I	ILEX GREENATA 'GREEN LASTER' Green Luster Holly	18-24" SPD	Container
20	J	JUNIPERUS CHINENSIS OLD GOLD Old Gold Juniper	18-24" SPD	Container



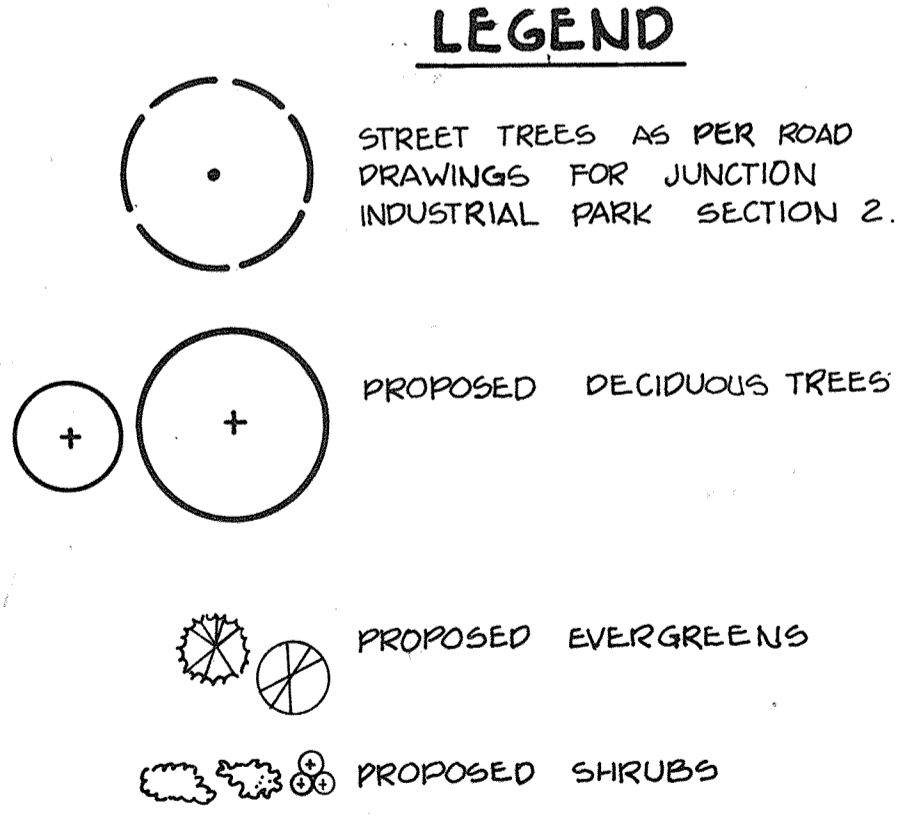
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
James M. ... 4-28-88
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
W. P. ... 5.6.88
 PLANNING DIRECTOR DATE

APPROVED: CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT.
James ... 5/2/88
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James ... 4/22/88
 DIRECTOR DATE

APPROVED: CHIEF, BUREAU OF ENGINEERING.
James ... 4-22-88
 CHIEF, BUREAU OF ENGINEERING DATE



NOTE: ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
 ALL DIMENSIONS TO FACE OF CURB, FACE OF BUILDING OR E.

NOTE: THE LOD OF 200 SQ FT MAXIMUM IS EXEMPT FROM PROVIDING STORM WATER MANAGEMENT. ANY FUTURE INCREASE EXCEEDING 200 SQ FT SHALL BE REQUIRED TO MEET CURRENT STORM WATER MANAGEMENT CRITERIA.

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 10-29-87
 LKS

09.07.18 2 PROPOSED 10\"/>
 05.10.18 1 PROPOSED 10\"/>
 DATE NO REVISION

OWNER / DEVELOPER
 FRANK M. JARET AND MALCOLM JARET
 CALICO INDUSTRIES
 PO BOX 850
 4721 BOSTON WAY
 LANHAM, MARYLAND 20706

PROJECT JUNCTION INDUSTRIAL PARK SECTION 2 AREA 1 PARCEL J OFFICE / WAREHOUSE

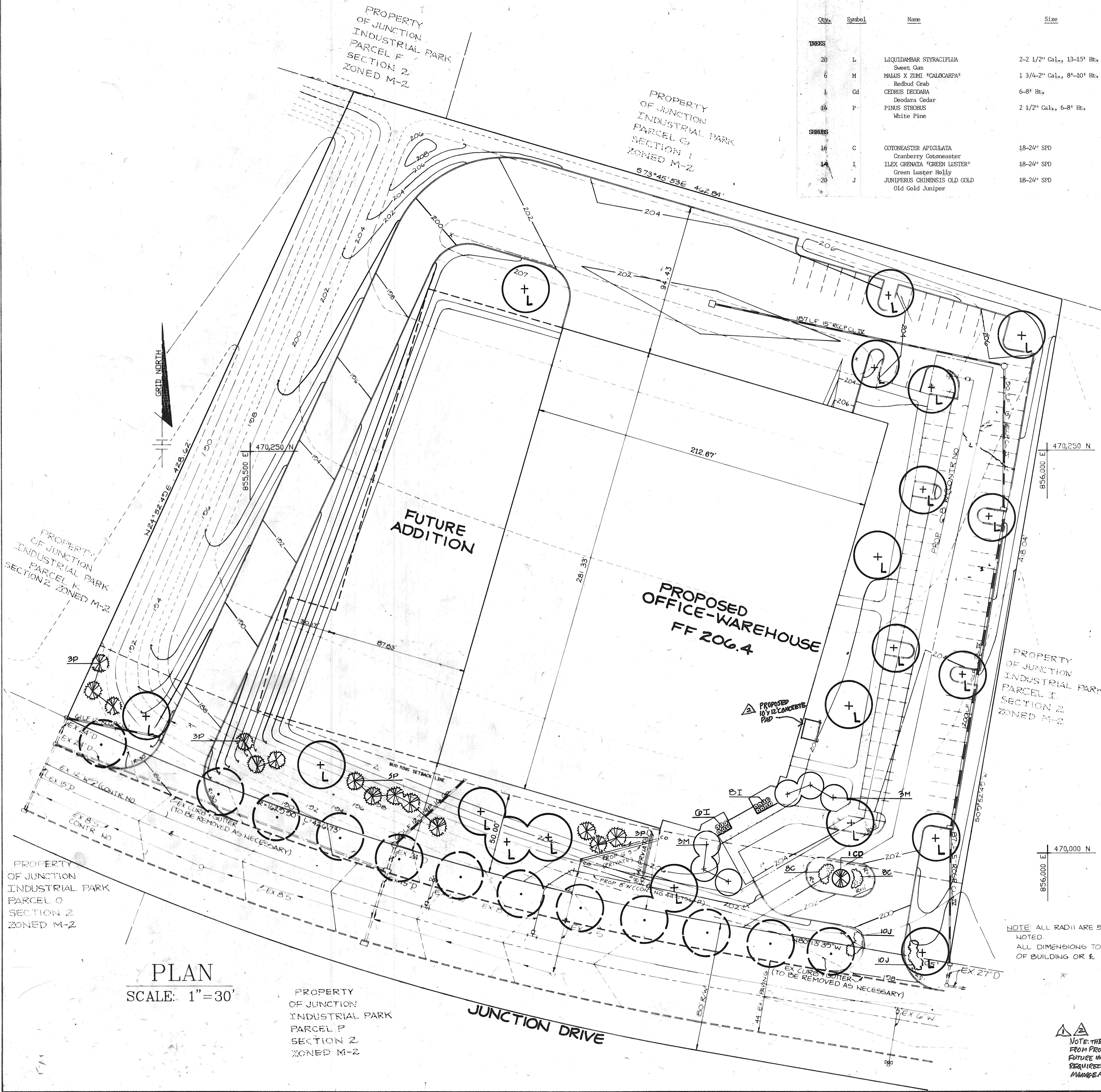
AREA JUNCTION INDUSTRIAL PARK SECTION 2 AREA 1 TAX MAP 48 6TH FLECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE PLANTING PLAN

THE RIEMER GROUP, INC.
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
 3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-2690

4-6-88 DATE
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 10-29-87
 LKS

DESIGNED BY M.C.S.
 DRAWN BY M.S.
 PROJECT NO 37200
 DATE SEPTEMBER 30, 1987
 SCALE AS SHOWN
 DRAWING NO 6 OF 6



PLAN
 SCALE: 1"=30'

PROPERTY OF JUNCTION INDUSTRIAL PARK PARCEL P SECTION 2 ZONED M-2

JUNCTION DRIVE

MARYLAND BLUEPRINT CO., INC.