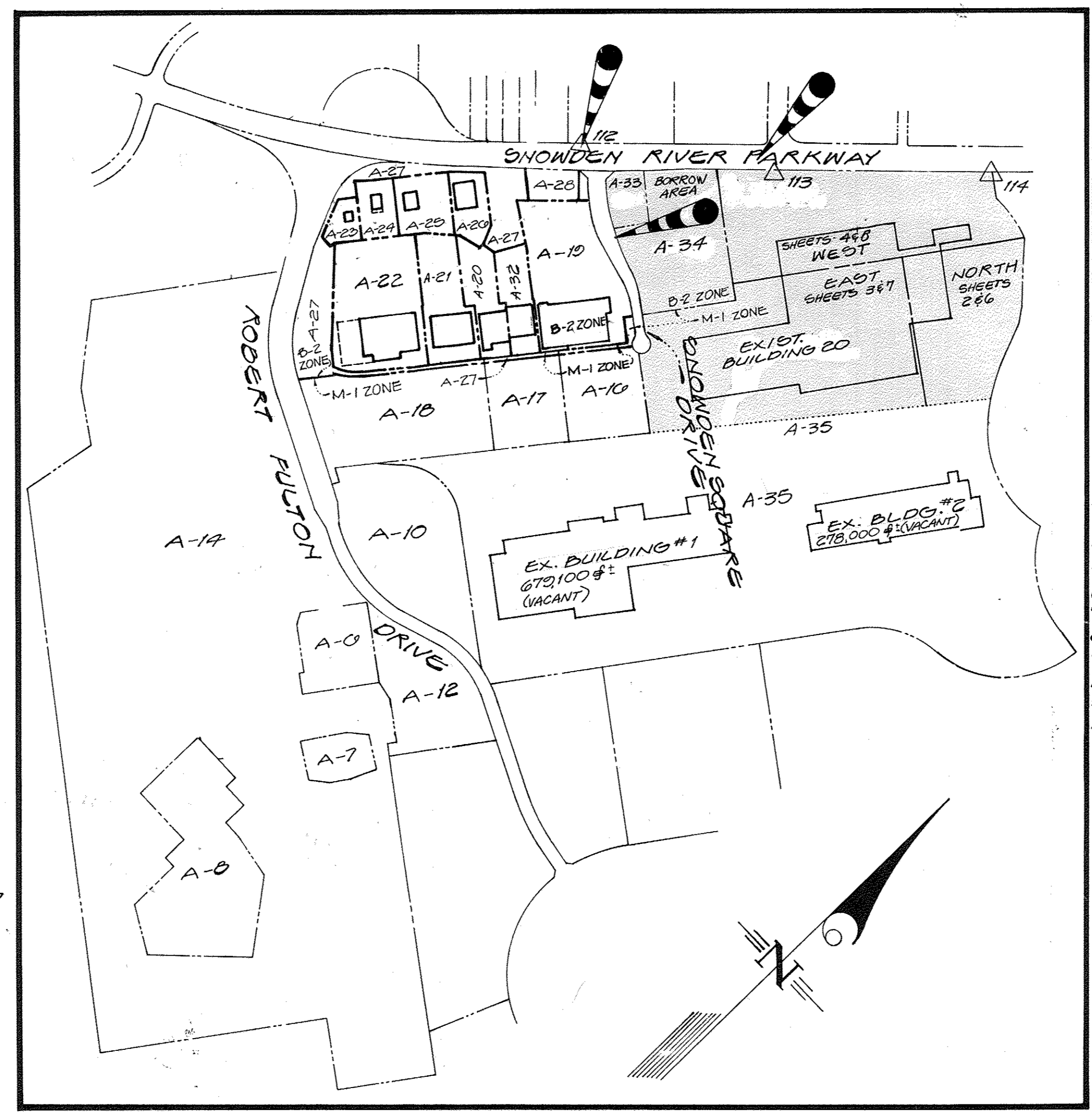


GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUMBING STANDARDS AND SPECIFICATIONS IF APPLICABLE.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF CONSTRUCTION INSPECTION AT (301) 782-7872 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
3. THE CONTRACTOR SHALL NOTIFY "MISC UTILITY" AT 1-800-287-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
4. ALL PROPOSED RAMPS SHALL BE IN ACCORDANCE WITH CURRENT A.D.A. STANDARDS. MAXIMUM SIDEWALK CROSS SLOPE TO BE 2%. SITE AREA: 65.75 AC.
5. TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE FLAGMENT OF ANY ASPHALT.
7. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
8. EXISTING TOPOGRAPHY TAKEN FROM PLANS PREPARED BY PHOTO SCIENCE, INC.
9. COORDINATED AND BEARINGS ARE BASED UPON THE MD. STATE PLANE SYSTEM.
10. WATER AND SEWER SERVING THIS PARCEL IS PUBLIC.
11. STORMWATER MANAGEMENT FOR THIS SITE IS EXISTING ON PARCEL A-14. (F02-1001)
12. ALL FIRE HYDRANTS NOT LOCATED BEHIND CONCRETE CURBS SHALL BE PROTECTED SEE SHEET 12 OF 13 FOR DETAIL.
13. ALL CURB RADII ARE 5' UNLESS NOTED OTHERWISE.
14. UTILITY INFORMATION TAKEN FROM AS BUILT PREPARED BY FISHER, COLLING & CARTER.
15. EXISTING & PROPOSED WATER, SEWER & STORM DRAIN ARE PUBLIC IF SHOWN IN A PUBLIC R/W. AN EASEMENT OR LABELED WITH A CONTRACT NUMBER OTHERWISE, WATER, SEWER & STORM DRAIN ARE PRIVATE.
16. ALL THE DIMENSIONS TO THE PROPERTY LINES FROM BUILDINGS AND PARKING AREAS ARE APPROXIMATE (EXISTING FEATURES) AND SHOULD NOT BE USED FOR CONSTRUCTION STAKE OUT.
17. ON NOVEMBER 16, 1992, NP 93-48, WAIVER OF SECTION 16.113 (F)(6), WAS GRANTED TO ALLOW A PRIVATE COMMERCIAL DRIVEWAY TO HAVE DIRECT ACCESS TO AN ARTERIAL HIGHWAY.
18. USE TRENCH BEDDING CLASS "C" FOR STORM DRAINS.
19. PAVED AREAS INDICATED ARE PRIVATE. (EXCEPT FOR SNOWDEN RIVER PARKWAY).
20. PROJECT BACKGROUND: ZONING CASE ZB-915 SEE DEPT. OF PLANNING & ZONING FILE NUMBERS: S-34-44, S-05-50, F-80-01, F-87-00, F-88-50, VP-84-100, VP-86-34, F-90-170, VP-86-36, VP-86-81, VP-88-17, WP-88-03, WP-90-141, AA-91-19, ZB-91B, S-92-10, SDF-92-40, F-92-16, F-92-57, F-92-130, F-92-140, WP-93-48, F-93-47
21. RECORDING REFERENCE: PLAT NO. 10602-10605 (F-93-47)

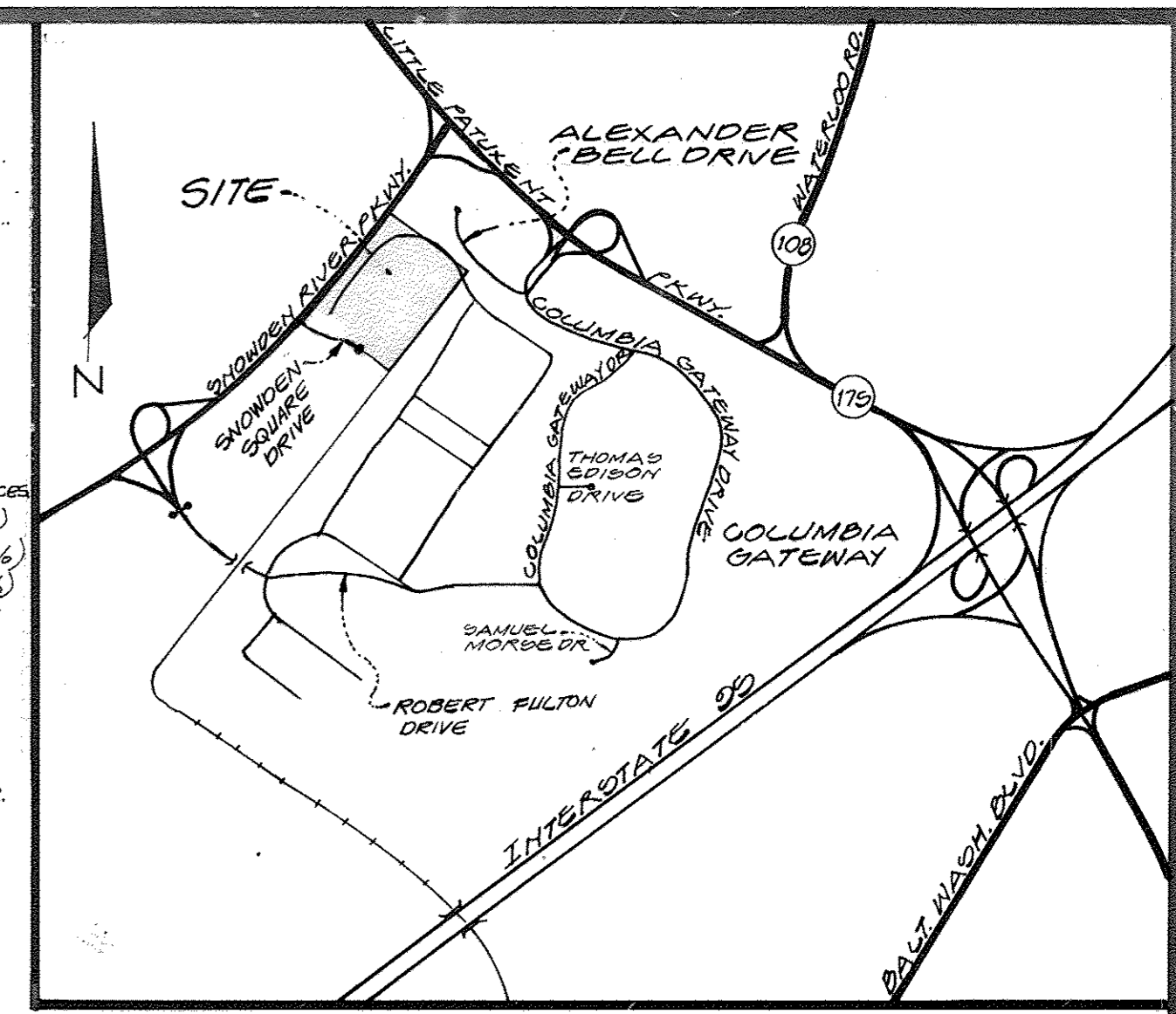
**BUILDING 20
GATEWAY COMMERCE CENTER
SITE DEVELOPMENT PLAN
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND**



KEY MAP
SCALE: 1"=600'

SITE ANALYSIS

1. ZONING: PARCEL A-33: B-2
PARCEL A-34: B-2
PARCEL A-35: M-1
2. LIMITS OF SUBMISSION: 2,809,052 SQ FT OR 65.75 AC.
3. MAX. NO. OF EMPLOYEES ON MAJOR SHIFT: 100/105
4. NUMBER OF PARKING SPACES REQ.:
70 EMPLOYEES @ 2 SPACES/EMPLOYEE = 140 SPACES
5. NUMBER OF HANDICAP PARKING SPACES REQUIRED: 6 SPACES
6. NUMBER OF HANDICAP VAN PARKING SPACES REQ'D: 1 SPACE
7. NUMBER OF PARKING SPACES PROVIDED: 140 SPACES, 137
8. NUMBER OF HANDICAP PARKING SPACES PROVIDED: 9 SPACES
9. NUMBER OF HANDICAP VAN PARKING SPACES PROVIDED: 2 SPACES
10. BUILDING COVERAGE: 1,012,732 SQ FT. OR 23.25 AC (35.4%)
11. EX. LANDSCAPE AREA: 1,353,400 SQ FT. OR 31.07 AC (47.3%)
12. PROP. LANDSCAPE AREA: 1,023,000 SQ FT. OR 23.01 AC (34.1%)
13. AREA OF PARKING LOTS: 76,665 SQ FT. 130,420 SQ. FT.
14. AREA OF LANDSCAPED ISLANDS CONTAINED WITHIN PARKING LOTS: 16,405 SQ FT. (21%)
15. AREA OF PARCEL A-33: 70,656 SQ FT. OR 1.63 AC.
PARCEL A-34: 462,050 SQ FT. OR 10.6 AC.
PARCEL A-35: 7,072,815 SQ FT. OR 163.03 AC.
16. PROPOSED USE: PARCEL A-33 (UNDEVELOPED)
PARCEL A-34 (UNDEVELOPED)
PARCEL A-35 (WAREHOUSE)



VICINITY MAP
SCALE: 1"=2,000'

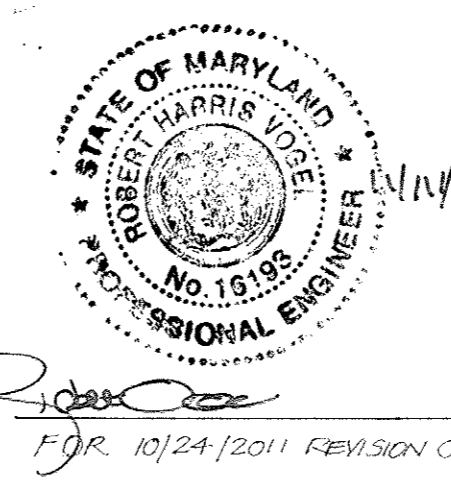
ADDRESS CHART		
BUILDING	PARCEL NUMBER	STREET ADDRESS
20	A-35	8901 SNOWDEN RIVER PARKWAY

SHEET INDEX

- 1 COVER SHEET
- 2 SITE PLAN-NORTH
- 3 SITE PLAN-EAST
- 4 SITE PLAN-WEST
- 5 SITE PLAN-BORROW AREA
- 6 SED. CONTROL & D.A.M. - NORTH
- 7 SED. CONTROL & D.A.M. - EAST
- 8 SED. CONTROL & D.A.M. - WEST
- 9 SED. CONTROL & D.A.M. - BORROW AREA
- 10 SED. TRAP DATA
- 11 SED. CONTROL DETAILS & NOTES
- 12 UTILITY PROFILES & SCHEDULES
- 13 SCHEDULES & DETAILS
- 14 NEW ENTRANCES, PARKING AREA, EXIT, AND DRIVE IN RAMP

LEGEND

- EXIST. PAVING TO BE REMOVED [Symbol]
- EXIST. GRAVEL TO BE REMOVED [Symbol]
- PROP. PAVING [Symbol]
- PROP. CONCRETE [Symbol]
- PROP. AUTOMOBILE PARKING SPACES [Symbol]
- PROP. TRACTOR TRAILER PARKING SPACES [Symbol]
- EXIST. LANDSCAPING [Symbol]
- EXIST. UTILITY STRUCTURE NUMBERS [Symbol]
- PROP. UTILITY STRUCTURE NUMBERS [Symbol]
- EXIST. CONTOURS [Symbol]
- PROP. CONTOURS [Symbol]
- HANDICAP ACCESS TO BUILDING [Symbol]
- TO BE REMOVED [Symbol]
- TO BE ABANDONED IN PLACE [Symbol]
- TO REMAIN [Symbol]
- PROP. CURB & GUTTER [Symbol]
- PROP. REVERSE CURB & GUTTER [Symbol]



[Signature]
FOR 10/16/13 REVISION ONLY

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 11-20-92
DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
[Signature] 11/20/92
DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS
[Signature] 11/19/92
DATE

[Signature]
FOR 7/29/2013 REVISION ONLY
AND 8/26/2013

CONTROL STATIONS	LOCATION	DESCRIPTION
TRAVERSE STA. 112	N. 491,685.77	E. 850,765.76
TRAVERSE STA. 113	N. 492,517.88	E. 851,646.35
TRAVERSE STA. 114	N. 493,315.37	E. 852,450.47

BENCH MARKS	LOCATION	DESCRIPTION
SNOWDEN SQUARE DR 5+50 LT.	X-CUT 8.5	FIRE HYDRANT, ELEV. 364.84
INTX. SNOWDEN RIVER PKWY & SNOWDEN SQUARE DRIVE SOUTH MEDIAN	TRAVERSE STA. 112	ELEV. 360.00
INTX. SNOWDEN RIVER PKWY & MCGAW ROAD, SOUTH MEDIAN	CUT BASE N.E. SIDE OF TRAFFIC SIGNAL POLE BASE	ELEV. 387.85

SUBDIVISION NAME	SECT./AREA	PARCEL
GATEWAY COMMERCE CENTER	N/A	A-35
PLAT 10602-10605	BLOCK N/A	ZONE M-1
	TAX ZONE MAP 42	ELEC. DIST. 6
		CENSUS TR. 6007.03

CENSUS TR.	WATER CODE	SEWER CODE	DES.	SCALE	ZONING	GL.W. FILE No.
6007.03	E00	4000000	MJT	AS SHOWN	M-1 & B-2	01-056
			DRN: N.S. J/K			
			CHK: CKG	DATE NOV. 10 1992	TAX MAP No. 42	SHEET 10 OF 13

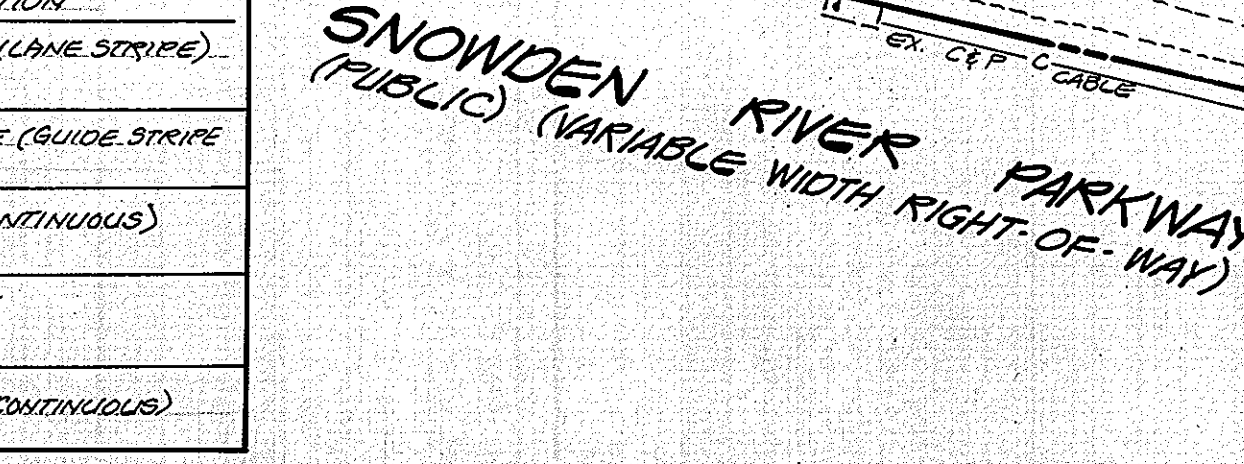
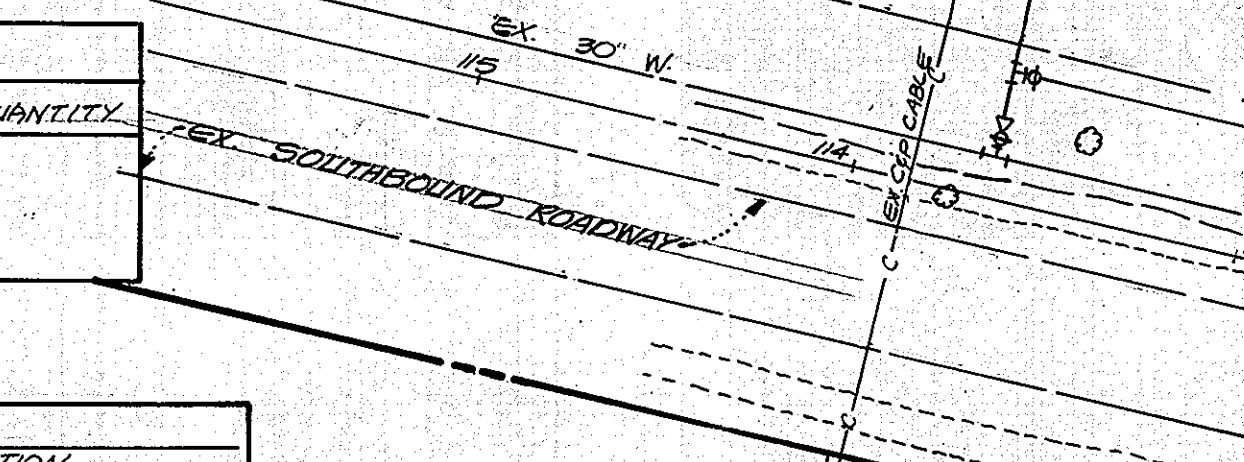
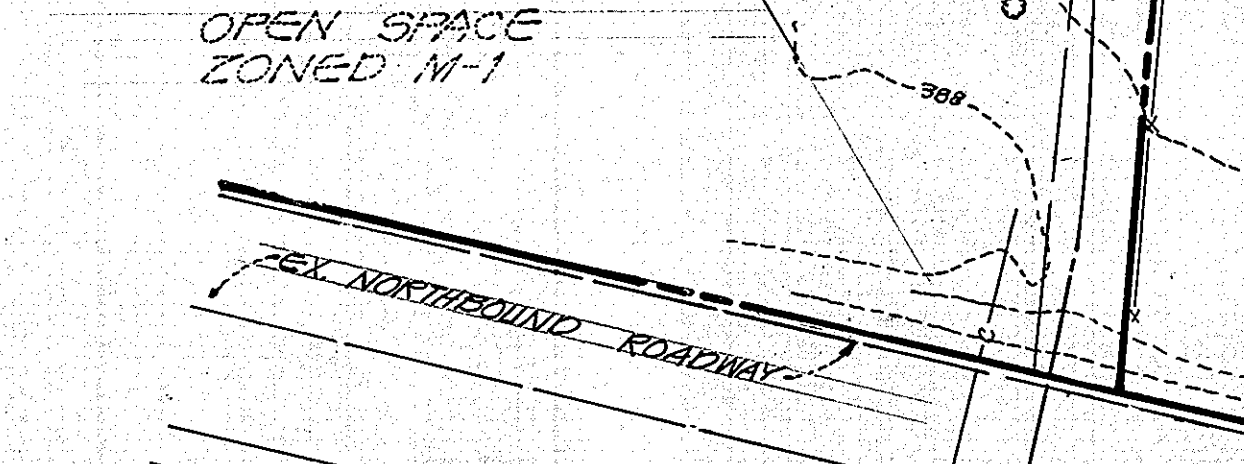
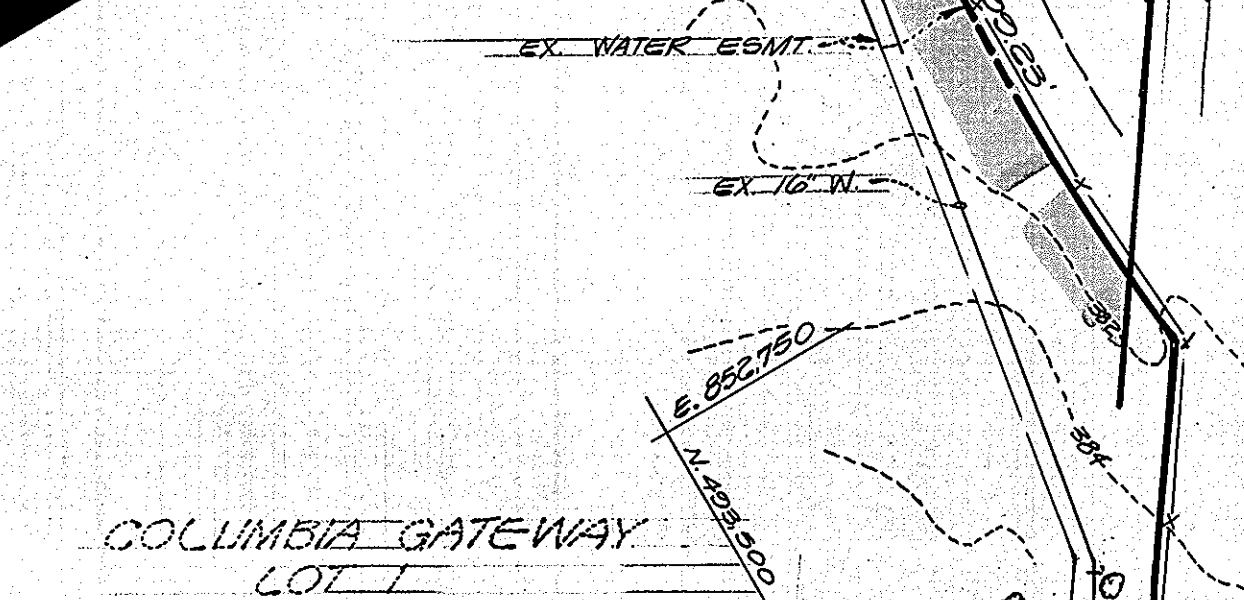
GW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD. 20866
TELEPHONE (301) 421-4024 NO. VA. (301) 989-2524 BALTO. (301) 880-1820 FAX (301) 421-4186

DATE	REVISION	BY	APPR.
3/24/2013	REVISE PLAN FOR ADDITION OF SIDEWALKS AND FENCE		
5/21/2013	REVISE PLAN FOR ADDITION OF CONCRETE LOADING AREA, MECHANICAL PAD, LEADWALK AND BMD FACILITY		
10/24/11	REVISE PLAN FOR NEW ENTRANCES, EXIT DOORS, PARKING EXPANSION AND DRIVE IN RAMP	VOGEL	
8/22/03	REV. NOTES & ANALYSIS	GH	
11/16/02	GENERAL REVISIONS	MJT/K	

PREPARED FOR:
THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE BUILDING
10276 LITTLE PATUKENT PKWY.
COLUMBIA, MD. 21044
(301) 992-0027

SITE DEVELOPMENT PLAN
GATEWAY COMMERCE CENTER
BUILDING 20
PARCELS A-33, A-34 & A-35
HOWARD COUNTY, MARYLAND
6TH ELECTION DISTRICT

FOR CONTINUATION SEE SHEET 3 OF 13



SIGNAGE SCHEDULE			
SYMBOL	TYPE OF SIGN	MIN. SIGN REFERENCE NUMBER & SIZE	QUANTITY
②	STOP	R1-1 30" x 30"	

STRIPING LEGEND	
SYMBOL	DESCRIPTION
①	BROKEN WHITE LINE (LANE STRIPE) 10' x 9" WIDE
②	BROKEN WHITE LINE (GUIDE STRIPE) 6' x 6" WIDE
③	SOLID WHITE LINE (CONTINUOUS) 4" WIDE
④	STOP BAR, 24" WIDE
⑤	SOLID YELLOW LINE (CONTINUOUS) 4" WIDE

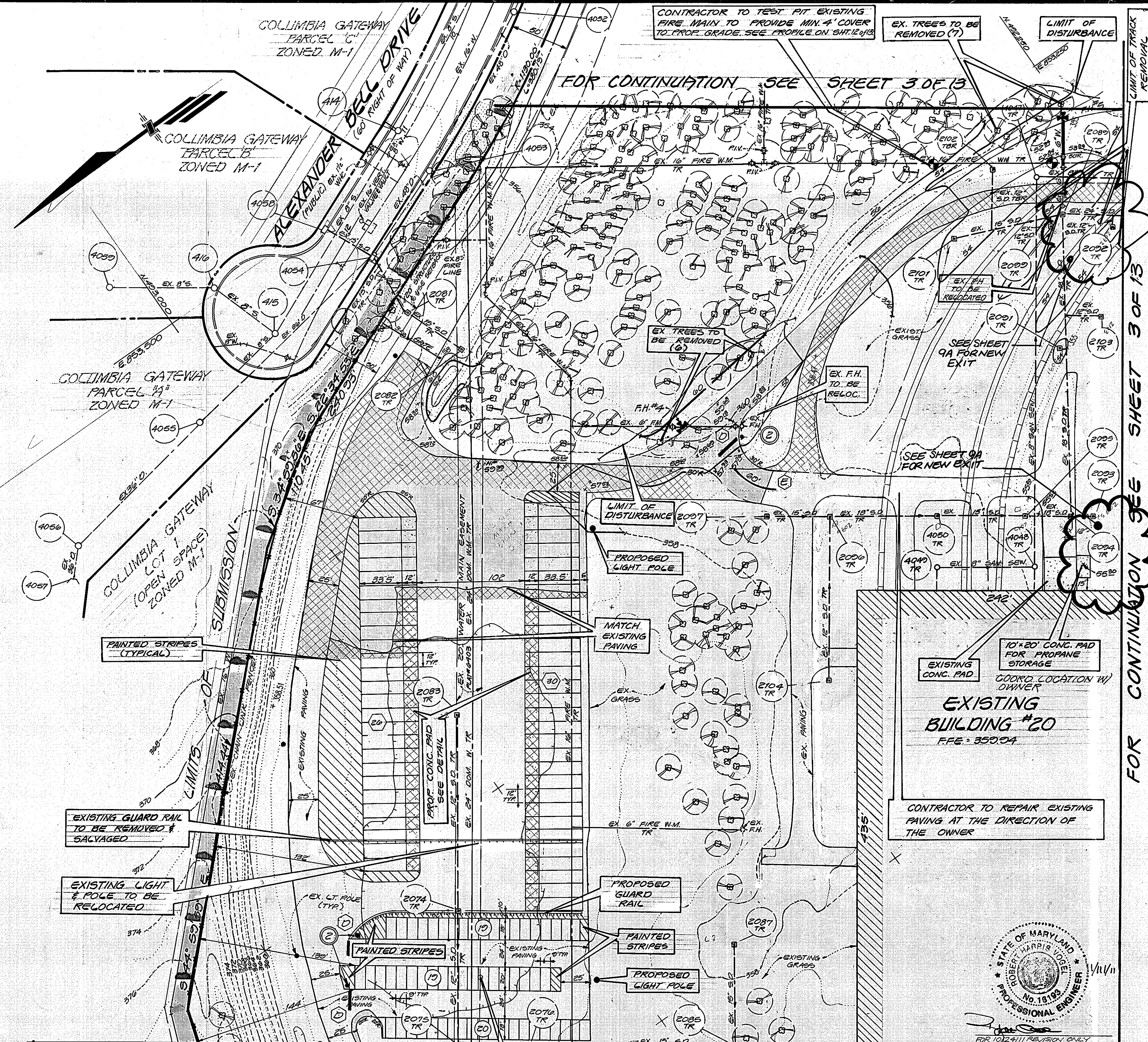
APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.
[Signature] 11-20-92
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
[Signature] 11-20-92
 DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS & PUBLIC ROADS, HOWARD COUNTY DEPT. OF PUBLIC WORKS
[Signature] 11-19-92
 DIRECTOR DATE

[Signature] 11-19-92
 CHIEF, BUREAU OF ENGINEERING, P.A.K. DATE

NOTE: ALL LIGHT FIXTURES TO BE PROVIDED BY THE HOWARD RESEARCH & DEVELOPMENT CORP.



FOR CONTINUATION SEE THIS SHEET

FOR CONTINUATION SEE SHEET 4 OF 13

FOR LEGEND SEE SHEET 1 OF 13

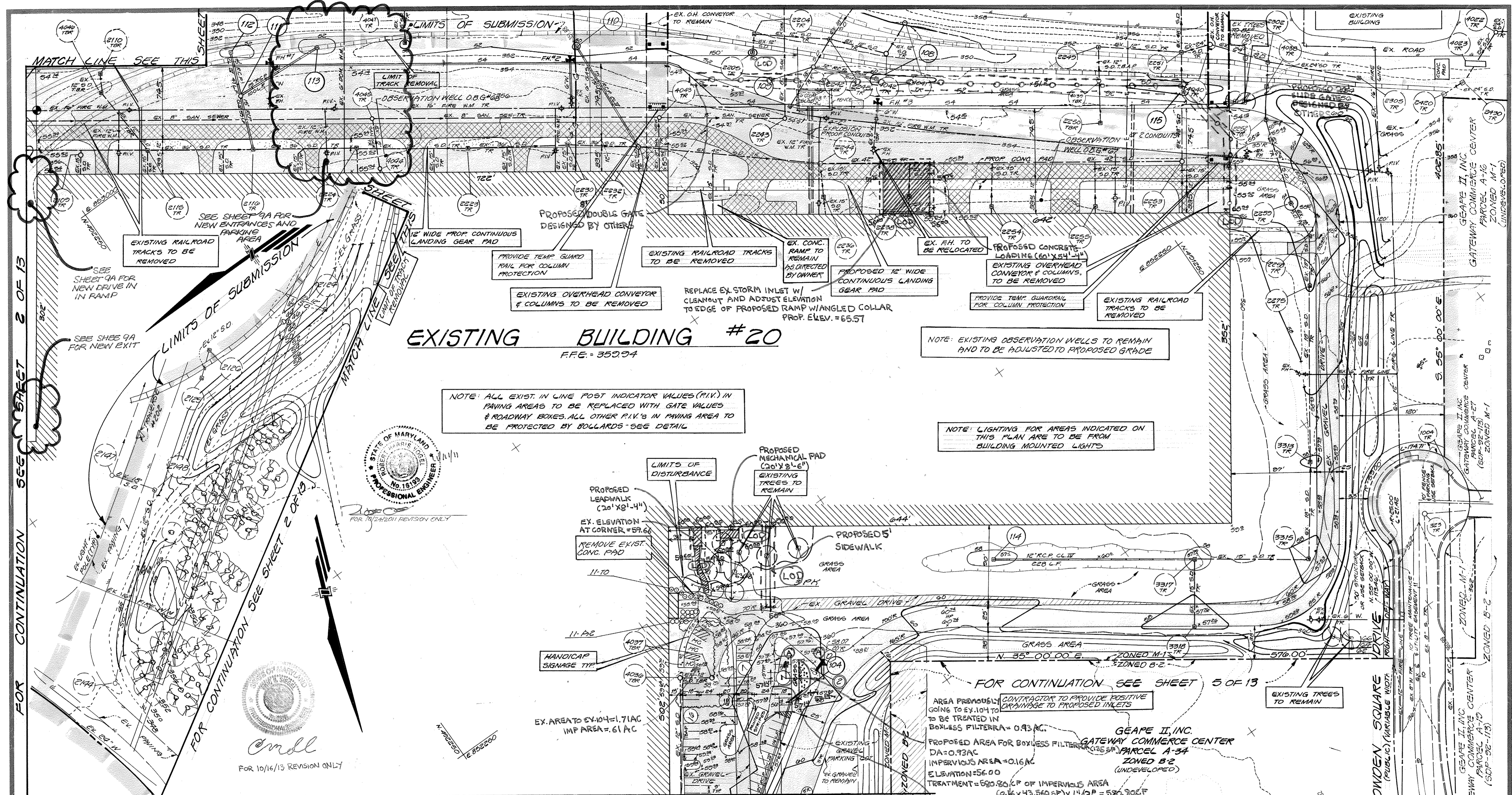
GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE • SUITE 250 • BURTONSVILLE OFFICE PARK • BURTONSVILLE, MD. 20886
 TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP'R.
10/24/11	REVISE PLAN FOR NEW ENTRANCES, EXIT DOORS, PARKING EXPANSION, VEHICLE AND DRIVE IN RAMP		
11-23-03	ADD STRIPING & SIGNS GRADING, REV. MATCH LINE		
11-16-92	GENERAL REVISIONS		

PREPARED FOR:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE HOUSE BUILDING
 10275 LITTLE PATUXENT PKWY.
 COLUMBIA, MD. 21044
 (301) 292-6027

SITE DEVELOPMENT PLAN-NORTH
GATEWAY COMMERCE CENTER
 BUILDING 20
 PARCEL A-33A-34 & A-35
 HOWARD COUNTY, MARYLAND
 6TH ELECTION DISTRICT

DES:	SCALE	ZONING	G.L.W. FILE NO.
MJT	1" = 50'	M-1 & B2	91-056
DRN:	DATE	TAX MAP NO.	SHEET
HK	NOV. 10, 1992	42	2 OF 13
CHK:	CRG		

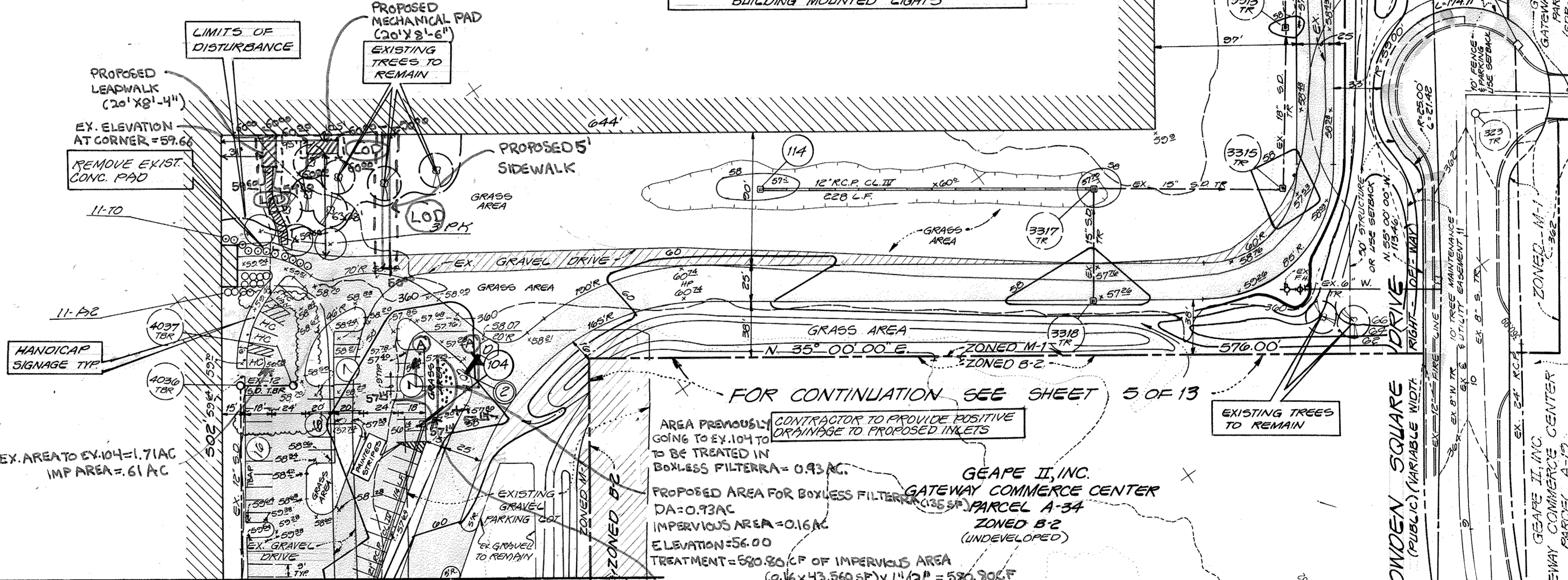


EXISTING BUILDING #20
F.F.E. = 352.34

NOTE: ALL EXIST. IN LINE POST INDICATOR VALUES (P.I.V.) IN PAVING AREAS TO BE REPLACED WITH GATE VALUES & ROADWAY BOKES. ALL OTHER P.I.V.'S IN PAVING AREA TO BE PROTECTED BY BOLLARDS - SEE DETAIL

NOTE: EXISTING OBSERVATION WELLS TO REMAIN AND TO BE ADJUSTED TO PROPOSED GRADE

NOTE: LIGHTING FOR AREAS INDICATED ON THIS PLAN ARE TO BE FROM BUILDING MOUNTED LIGHTS



FOR CONTINUATION SEE SHEET 5 OF 13

AREA PREVIOUSLY GOING TO EX. 104 TO BE TREATED IN BOXLESS FILTERRA = 0.93 AC.

PROPOSED AREA FOR BOXLESS FILTERRA = 0.93 AC.
DA = 0.93 AC
IMPERVIOUS AREA = 0.16 AC
ELEVATION = 56.00
TREATMENT = 590.80 C.F. OF IMPERVIOUS AREA
(0.16 x 43,560 SF) x 1 1/2" = 590.80 C.F.

GEAPE II, INC.
GATEWAY COMMERCE CENTER
PARCEL A-34
ZONED B-2
(UNDEVELOPED)

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.
COUNTY HEALTH OFFICER
DATE: 11-20-92

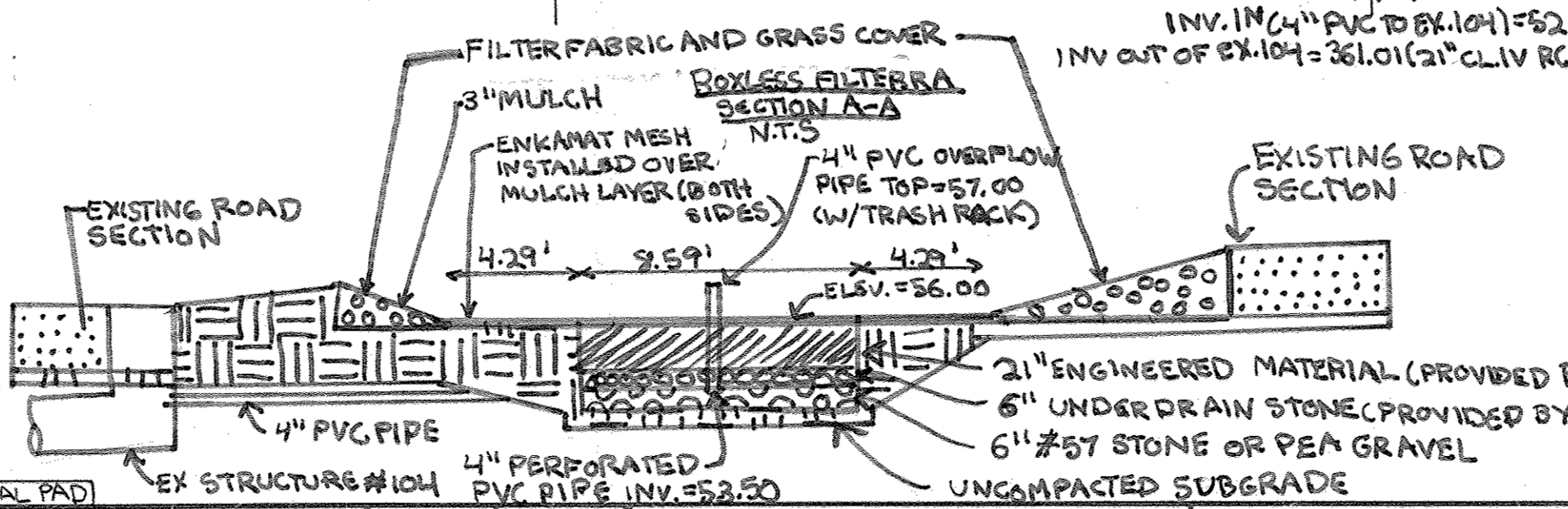
APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR
DATE: 11-20-92

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD COUNTY DEPT. OF PUBLIC WORKS
DIRECTOR
DATE: 11-19-92

FOR 10/16/13 REVISION ONLY

FOR 7/15/2013 REVISION ONLY AND 8/16/2013

FOR CONTINUATION SEE SHEET 4 OF 13



KEY	QTY.	NAME: BOTANICAL / COMMON	SIZE	ROOT
PX	3	PRUNUS SERRULATA / KWANAN	3-3 1/2 CAL. 10'-12" HGT.	B&B
AZ	11	ARALEA APHRODITE / FINIS ARALEA	18"-21" 3' O.C.	CONT.
TO	11	TAXUS MEDIA HICKSII / YEW	3'-4' HGT.	B&B

PROPOSED PLANTINGS:

- BUCKEYE RED (ASBULLUS PAVIA)
HEIGHT: 15'-25'
SPREAD: 15'-25'
- CHERRYBERRY BLACK (ARONIA MELANOCARPA)
HEIGHT: 3'-6'
SPREAD: 4'-6'
- LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)
HEIGHT: 20"-32"
SPREAD: 20" x 48"

FOR LEGEND SEE SHEET 1 OF 13

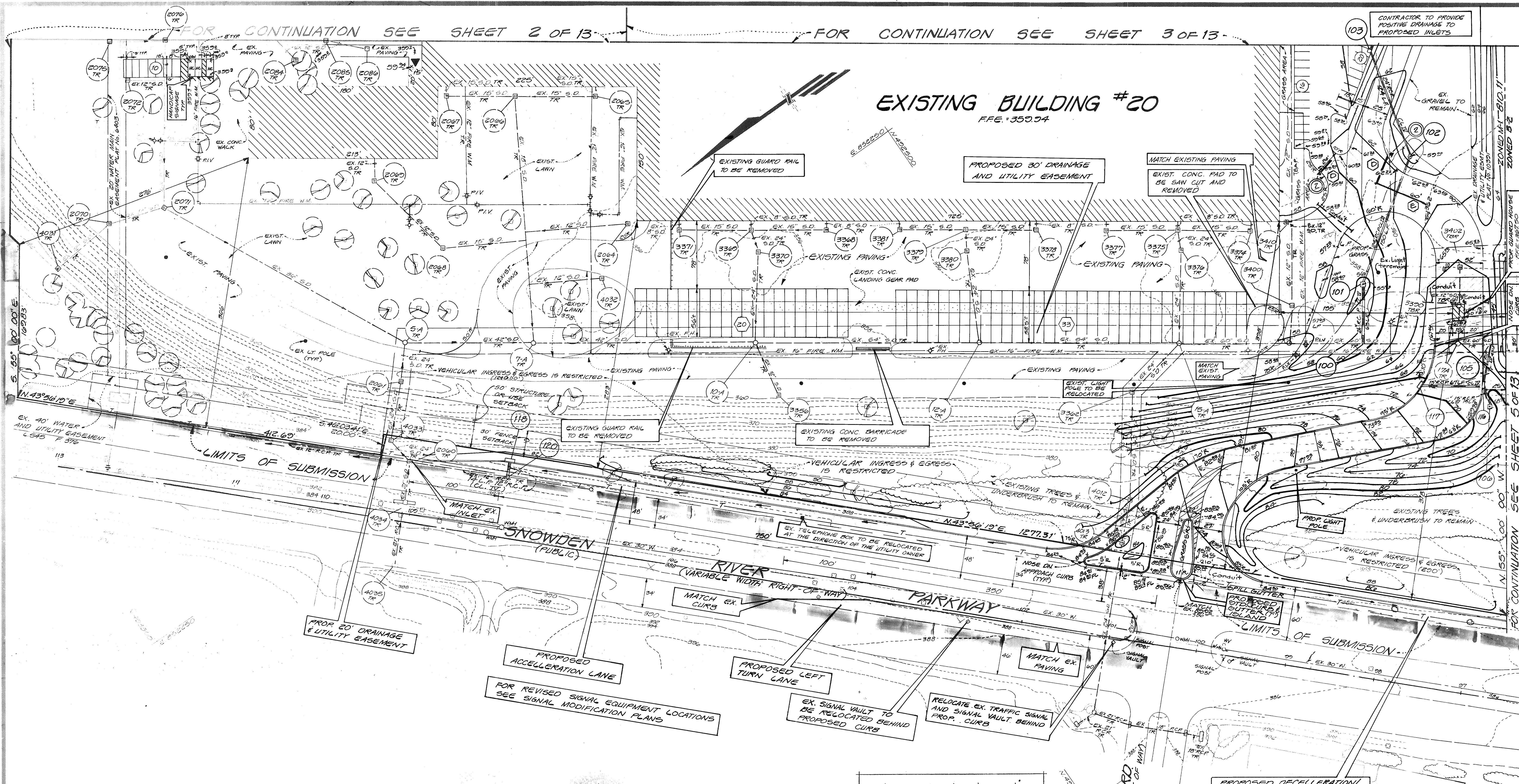
GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20866
TELEPHONE (301)421-4024 NO. VA (301)989-2524 BALTO (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP'R.
10/24/11	REVISE PLAN FOR ADDITION OF SIDEWALK AND FENCE	VOVBL	
10/24/11	REVISE PLAN FOR ADDITION OF CONCRETE LOADING AREA, MECHANICAL PAD, LEANWALKS AND BMP FACILITY	VOVBL	
10/24/11	REVISE PLAN FOR NEW ENTRANCES, EXIT DOORS, PARKING	VOVBL	
3-26-03	EXPANSION AND DRIVE IN RAMP	CH	
11-16-02	REV. GRADING, LIMIT OF SUBMISSION, PARKING, GENERAL REVISIONS	MTWK	

PREPARED FOR:
THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE BUILDING
10275 LITTLE PATUXENT PKWY.
COLUMBIA, MD 21044
(301) 222-6027

SITE DEVELOPMENT PLAN - EAST
GATEWAY COMMERCE CENTER
BUILDING 20
PARCEL A-33, A-34 & A-35
HOWARD COUNTY, MARYLAND
6th ELECTION DISTRICT

DES.:	SCALE	ZONING	G.L.W. FILE NO.
MJT	1"=50'	M-1 & B-2	91-056
DRN.:	DATE	TAX MAP NO.	SHEET
HK	NOV. 10 1002	42	3 OF 13
CHK.:			
CKG			



EXISTING BUILDING #20
F.F.E. = 350.34

LIMITS OF SUBMISSION

SNOWDEN RIVER PARKWAY
(VARIABLE WIDTH RIGHT-OF-WAY)

PROPOSED 20' DRAINAGE & UTILITY EASEMENT

PROPOSED ACCELERATION LANE

PROPOSED LEFT TURN LANE

RELOCATE EX. TRAFFIC SIGNAL AND SIGNAL VAULT BEHIND PROPOSED CURBS

PROPOSED DECELERATION/ ACCELERATION LANE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.
James P. ... 4-20-93
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
James P. ... 4-26-93
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS & PUBLIC ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS
James P. ... 4-22-93
 DIRECTOR DATE

D.C. ... 4-12-93
 CHIEF, BUREAU OF ENGINEERING M.K. DATE

Klubus Klubus

Note: Contractor to realign & paint all bollards

NOTE: CONTRACTOR TO PROVIDE PROTECTION FOR EXISTING FIRE HYDRANT, LIGHT POLES & UNDERGROUND WIRING TO REMAIN IN THE VICINITY OF PROPOSED STRUCTURE #101 DURING GRADING OPERATIONS

FOR LEGEND SEE SHEET 1 OF 13

EXISTING BUILDING #20 SCHEMATIC ELEVATION (FROM SNOWDEN RIVER PKWY.)
NOT TO SCALE

NOTE: THIS REVISED PLAN (SDP 03-42-R) SUPERCEDES THAT APPROVED UNDER SDP 03-42

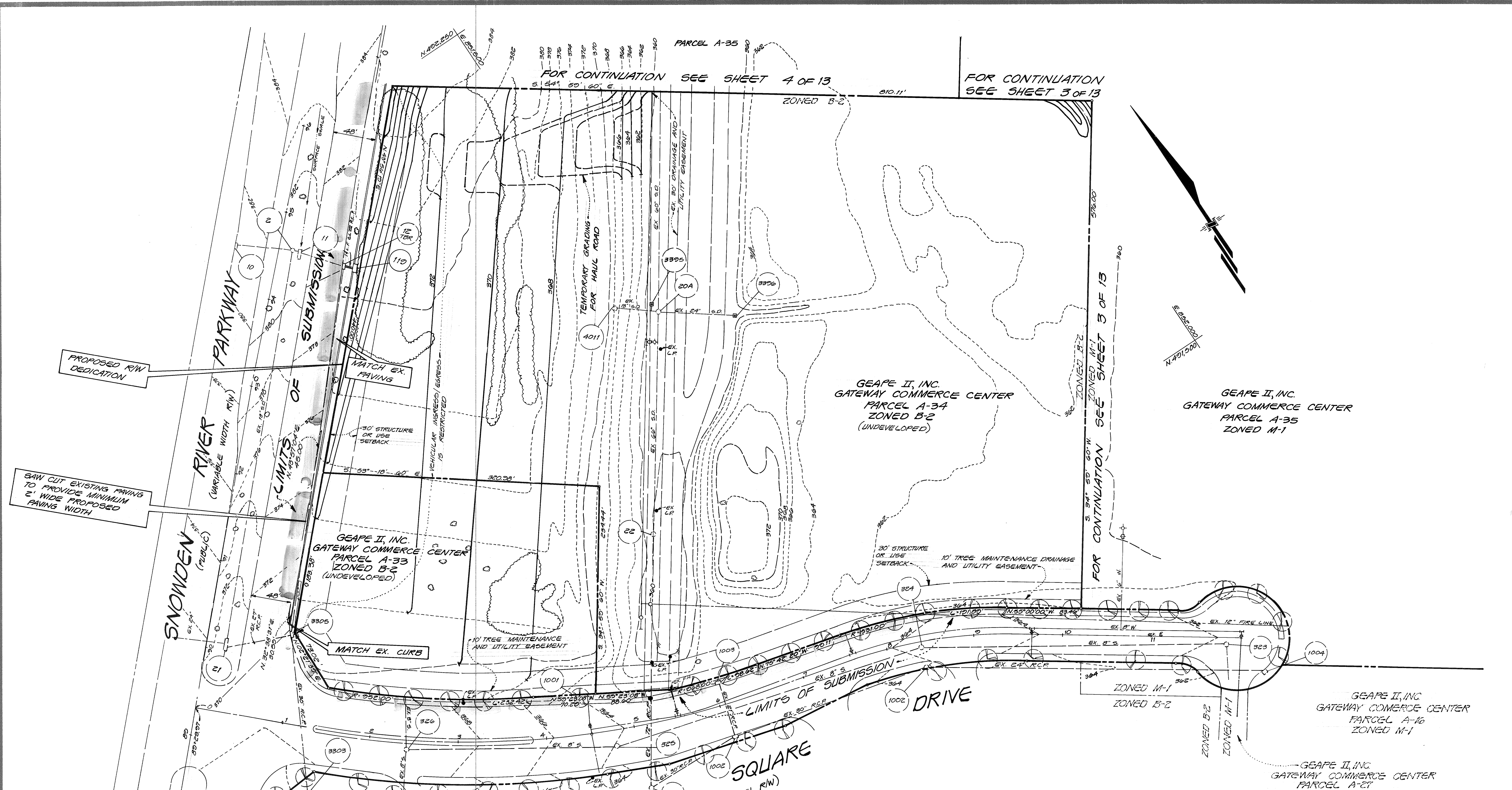
GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20886
 TELEPHONE: (301) 444-1200 FAX: (301) 444-1208

DATE	REVISION	BY	APPR.
3-24-93	Re-visit entrance Driveway, Grading, GENERAL REVISIONS	RFE	MTH/K

PREPARED FOR:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE ROUSE BUILDING
 10275 LITTLE PATRICK PKWY.
 COLUMBIA, MD 21044
 (301) 952-6027

SITE DEVELOPMENT PLAN - WEST
GATEWAY COMMERCE CENTER
 BUILDING 20
 PARCEL A-33, A-34 & A-35
 HOWARD COUNTY, MARYLAND
 6TH ELECTION DISTRICT

DES.	SCALE	ZONING	PLAN FILE NO.
MJT	1" = 50'	M-1 & B-2	91-056
DRN.	DATE	TAX MAP NO.	SHEET
HK	NOV 10, 1992	42	4 OF 13
CHK.			



APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.
[Signature] 11-20-92
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
[Signature] 11/20/92
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
 HOWARD COUNTY DEPT. OF PUBLIC WORKS
[Signature] 11/20/92
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
 HOWARD COUNTY DEPT. OF PUBLIC WORKS
[Signature] 11-19-92
 CHIEF, BUREAU OF ENGINEERING & M.K. DATE

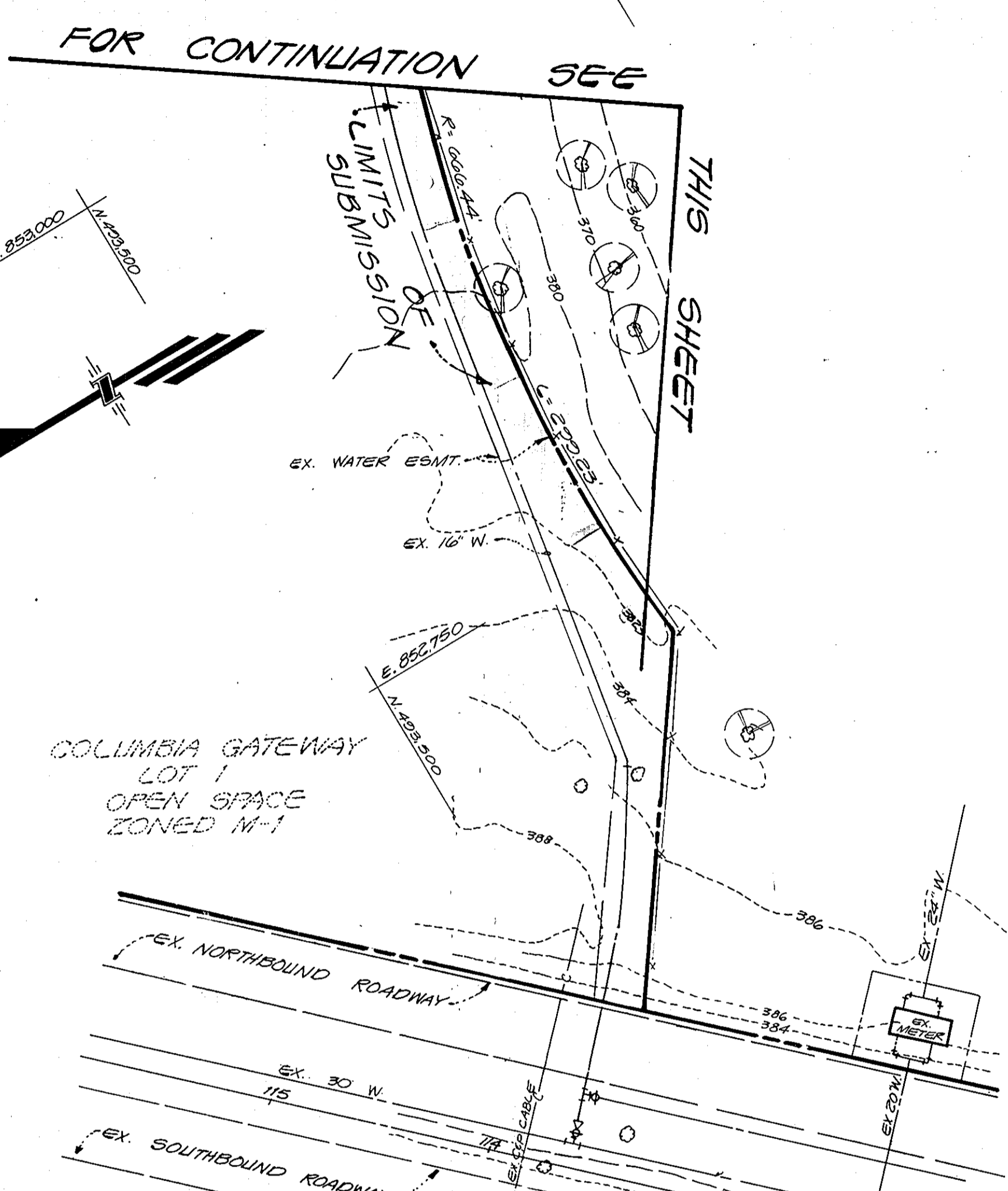
GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866
 TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APPR.
8-26-93	REV. GRADING		
11-16-92	GENERAL REVISIONS		

PREPARED FOR:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE ROUSE BUILDING
 10275 LITTLE PATRIENT PKWY.
 COLUMBIA, MD. 21044
 (301) 992-6027

SITE DEVELOPMENT PLAN - BORROW AREA
GATEWAY COMMERCE CENTER
 BUILDING 20
 PARCEL A-33, A-34 & A-35
 HOWARD COUNTY, MARYLAND 6TH ELECTION DISTRICT

DES.:	SCALE	ZONING	G.L.W. FILE NO.
MJT	1" = 50'	M-1 & B-2	91-056
DRN.:	DATE	TAX MAP NO.	SHEET
HK	NOV. 10, 1992	42	5 OF 13
CHK.:			



DRAINAGE AREA TABULATION

Structure No.	Drainage Area	Impervious Area	PerVIOUS Area	'C' Factor
2101	0.80	0.19	0.61	0.39
2099	0.38	-	0.38	0.25
2089	0.07	-	0.07	0.25
2104	0.20	0.05	0.15	0.40
2097	0.50	0.13	0.37	0.41
2096	0.26	0.09	0.17	0.46
4050	0.13	0.04	0.09	0.43
2095	0.14	0.06	0.08	0.51
2093	0.17	0.07	0.10	0.25
2094	0.16	0.10	0.06	0.63
2091	0.06	-	0.06	0.25
2103	0.14	-	0.14	0.25
2089	0.07	-	0.07	0.25
2092	0.19	-	0.19	0.25
2083	1.14	1.06	0.08	0.81
2074	1.72	1.35	0.37	0.72
2075	0.21	0.17	0.04	0.74
2076	0.21	0.12	0.09	0.59
2087	0.86	-	0.86	0.25

SNOWDEN RIVER PARKWAY (PUBLIC) (VARIABLE WIDTH RIGHT-OF-WAY)

APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPT.
James G. Smith 11-23-92
 COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING
James G. Smith 11-20-92
 CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS & PUBLIC ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS
James G. Smith 11-19-92
 DIRECTOR DATE

James G. Smith 11-18-92
 CHIEF BUREAU OF ENGINEERING M.K. DATE

NOTE: ALL LIGHT FIXTURES TO BE PROVIDED BY THE HOWARD RESEARCH & DEVELOPMENT CORP.

DEVELOPER'S/BUILDER'S CERTIFICATE
 "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 NSCD."
CK. Johnson 11-18-92
 Signature of Developer/Builder Date

ENGINEER'S CERTIFICATE
 "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."
CK. Johnson 11-17-92
 Date

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
James G. Smith 11/17/92
 HOWARD S.C.D. DATE



FOR LEGEND SEE SHEET 1 OF 13

FOR SEDIMENT CONTROL LEGEND SEE SHEET 11 OF 13

FOR CONTINUATION SEE THIS SHEET

FOR CONTINUATION SEE SHEET 8 OF 13

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20866
 TELEPHONE (301)421-4024 NO VA (301)989-2524 BALTO (301)880-1820 FAX (301)421-4186

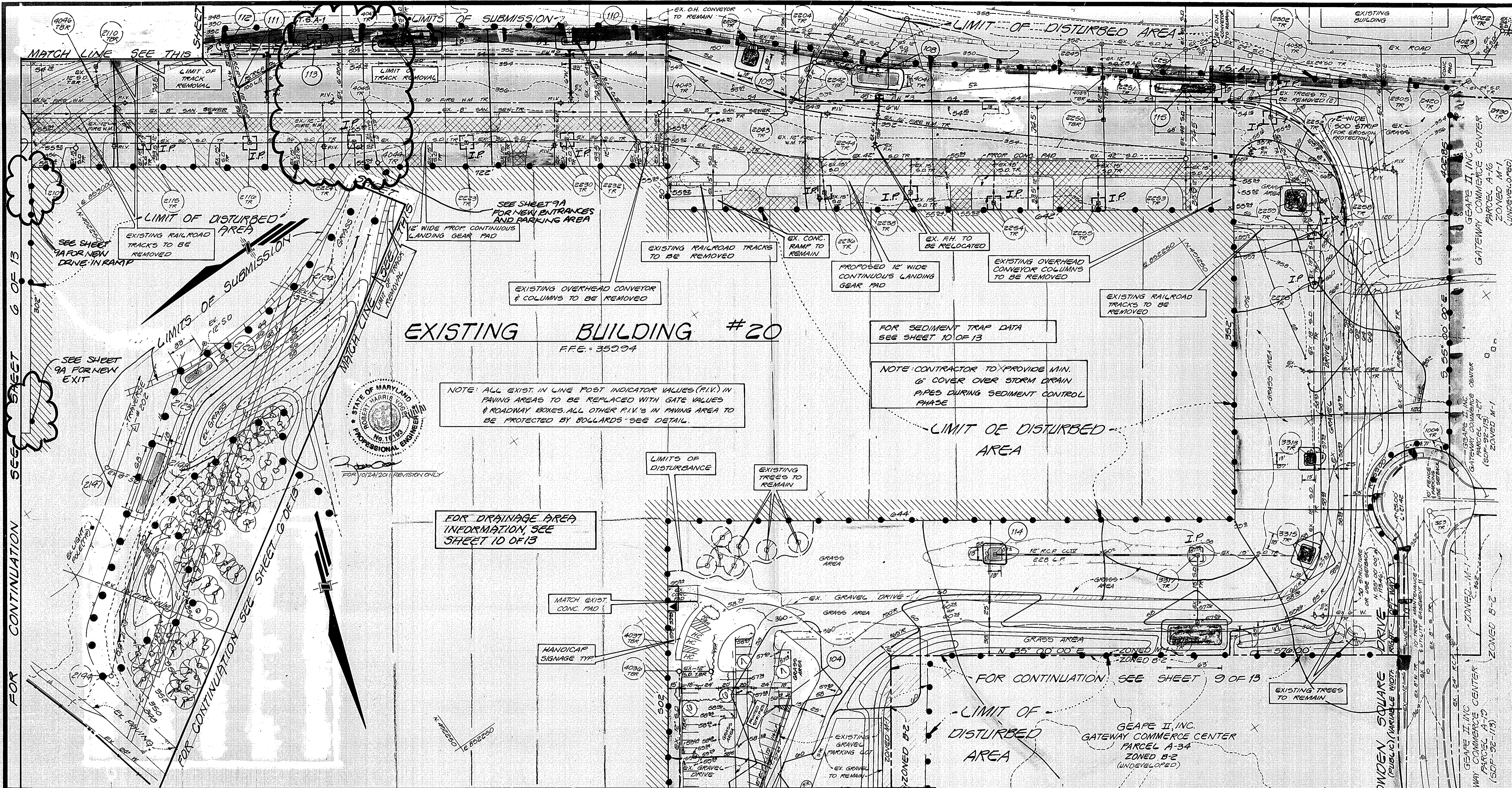
DATE	REVISION	BY	APPR.
10/21/11	REVISE PLAN FOR NEW ENTRANCES, EXIT DOOR, PARKING & EXPANSION WEDGE AND DRIVE IN RAMP 2	LH	
8-20-93	REV. MATCH LINE	MJT/HK	
11-10-92	GENERAL REVISIONS		

PREPARED FOR:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PKWY.
 COLUMBIA, MD 21044
 (301) 992-6027

SEDIMENT CONTROL PLAN-NORTH
GATEWAY COMMERCE CENTER
 BUILDING 20
 PARCEL A-33, A-34 & A-35
 HOWARD COUNTY, MARYLAND

DES.:	SCALE	ZONING	G.L.W. FILE NO.
MJT	1"=50'	M-1 & B-2	91-056
DRN.:	DATE	TAX MAP NO.	SHEET
HK	NOV. 10, 1992	42	6 OF 13
CHK.:	DATE	TAX MAP NO.	SHEET
CKG	1992	42	6 OF 13

SOP-03-42



APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.
 COUNTY HEALTH OFFICER 11-20-92
 DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 DIRECTOR 11/20/92
 DATE
 CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC WORKS
 HOWARD COUNTY DEPT. OF PUBLIC WORKS
 DIRECTOR 11/19/92
 DATE
 CHIEF BUREAU OF ENGINEERING M.R. QHTS

FOR CONTINUATION SEE SHEET 8 OF 13

NOTE: FOR DRAINAGE AREA TABULATION SEE SHEET 10 OF 13

DEVELOPER'S/BUILDER'S CERTIFICATE
 "I 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 HSCD."
 Signature of Developer/Builder 11-18-92
 Date

ENGINEER'S CERTIFICATE
 "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 of Engineer 11-17-92
 Date

FOR CONTINUATION SEE SHEET 9 OF 13

FOR DRAINAGE AREA INFORMATION, SEE SHEET 10 OF 13

NOTE: CONTRACTOR TO PROVIDE MIN. 6" COVER OVER STORM DRAIN PIPES DURING SEDIMENT CONTROL PHASE

FOR LEGEND SEE SHEET 1 OF 13

FOR SEDIMENT CONTROL LEGEND SEE SHEET 11 OF 13

APPROVED: FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 District Engineer 11/19/92
 Date

Reviewed for HOWARD S.C.D. Technical Requirements.
 Signature of Reviewer 11-19-92
 Date

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20886
 TELEPHONE (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

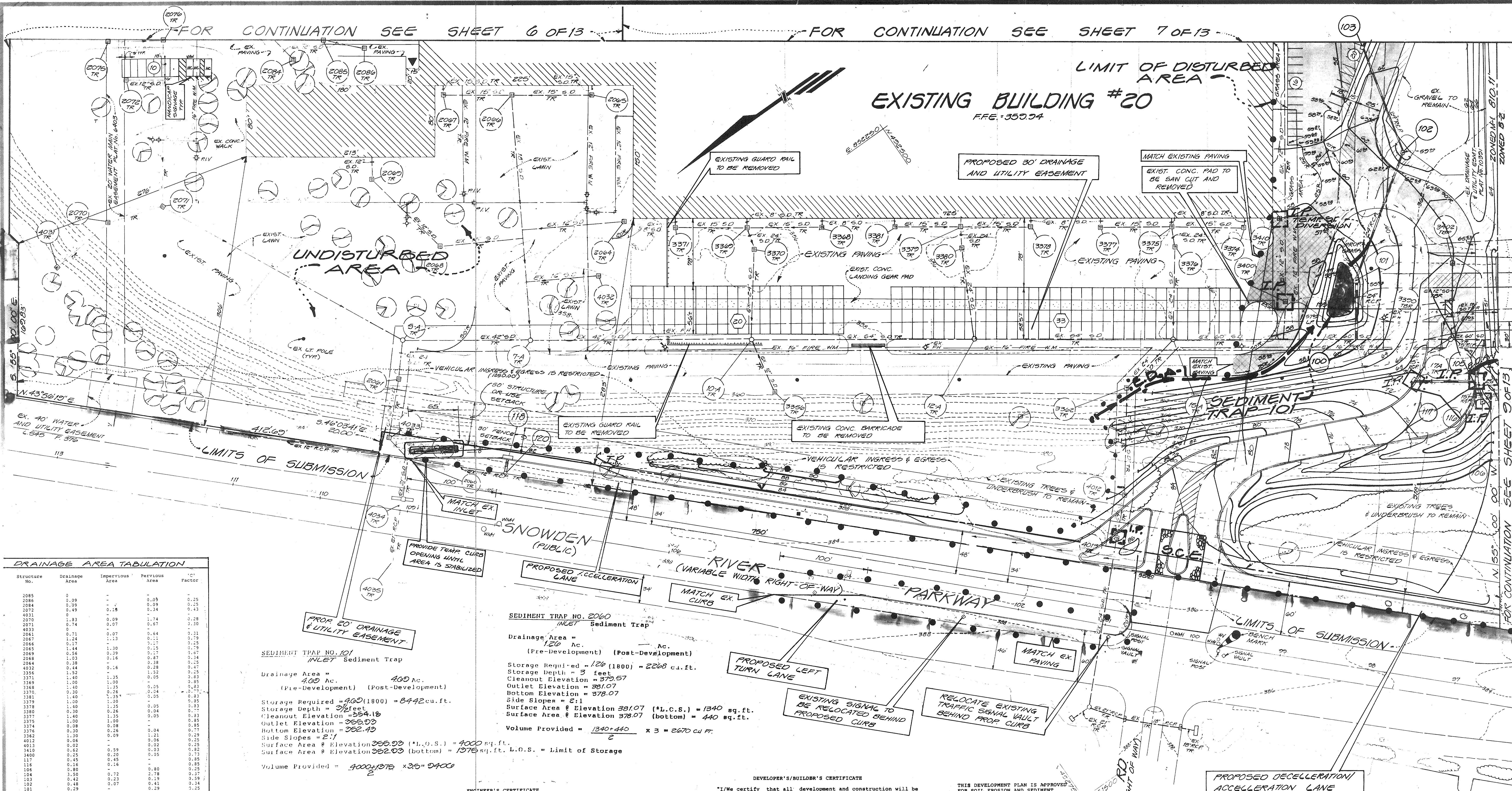
DATE	REVISION	BY	APP'R.
10/24/91	REVISE PLAN FOR NEW ENTRANCES, EXIT DOORS, PARKING EXPANSION AND DRIVE IN RAMP	VDGR	
3-22-92	REV. PARKING LIMIT OF SUBMISSION, GRADING, SED. TRAPS	ZLH	
11/16/92	GENERAL REVISIONS	MUTIK	

PREPARED FOR:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE HOUSE BUILDING
 10275 LITTLE PATIENT PKWY
 COLUMBIA, MD. 21044
 (301) 992-6027

SEDIMENT CONTROL PLAN - EAST
GATEWAY COMMERCE CENTER
 BUILDING 20
 PARCEL A-33, A-34 & A-35
 HOWARD COUNTY, MARYLAND
 6th ELECTION DISTRICT

DES:	SCALE	ZONING	G.L.W. FILE NO.
MJT	1" = 50'	M-1&B-2	91-050
DRN:	DATE	TAX MAP NO.	SHEET
HK	NOV. 10, 1992	42	7 OF 13
CHK:			

SOP-25-12



DRAINAGE AREA TABULATION				
Structure No.	Drainage Area	Impervious Area	Previous Area	% Factor
2085	0	-	0.39	0.25
2086	0.09	-	0.39	0.25
2087	0.49	0.18	0.43	0.33
4031	0.83	0.09	1.74	0.28
2070	0.74	0.07	0.67	1.30
2071	0.74	0.07	0.67	1.30
4033	0.71	0.07	0.44	0.31
2067	1.24	1.13	0.11	0.79
2068	0.49	1.13	0.11	0.79
2065	1.44	1.30	0.15	0.79
2069	0.39	0.29	0.27	0.34
2064	0.38	0.16	0.38	0.25
4032	0.44	0.16	0.38	0.25
3356	1.52	1.35	1.32	0.25
3371	1.40	1.00	0.35	0.85
3369	1.00	1.00	0.05	0.42
3368	1.40	1.35	0.05	0.42
3370	0.30	0.26	0.24	0.35
3381	1.40	1.00	0.05	0.83
3379	1.00	1.00	0.05	0.85
3378	1.40	1.35	0.05	0.83
3377	1.40	1.35	0.05	0.83
3375	1.00	1.00	0.05	0.85
3374	0.38	0.08	0.25	0.35
3376	0.30	0.26	0.04	0.77
3362	1.30	0.09	1.21	0.29
4012	0.06	0.09	0.06	0.25
4013	0.02	0.09	0.02	0.25
3410	0.62	0.59	0.03	0.82
3400	0.25	0.20	0.05	0.73
1117	0.45	0.45	0.05	0.85
116	0.16	0.16	0.05	0.85
186	0.80	0.72	0.80	0.37
104	3.50	0.72	2.78	0.37
103	0.42	0.23	0.19	0.34
102	0.48	0.07	0.41	0.34
101	0.29	0.07	0.29	0.25

SEDIMENT TRAP NO. 101
INLET Sediment Trap

Drainage Area = 400 Ac.
(Pre-Development) (Post-Development)

Storage Required = 400(1800) = 8442 cu. ft.
Storage Depth = 3 feet
Cleanout Elevation = 379.57
Outlet Elevation = 386.00
Bottom Elevation = 382.40
Side Slopes = 2:1
Surface Area @ Elevation 386.00 (*L.O.S.) = 4000 sq. ft.
Surface Area @ Elevation 382.00 (bottom) = 1376 sq. ft. L.O.S. = Limit of Storage
Volume Provided = $\frac{4000(1800) \times 3}{2} = 2400$

SEDIMENT TRAP NO. 2060
INLET Sediment Trap

Drainage Area = 126 Ac.
(Pre-Development) (Post-Development)

Storage Required = 126(1800) = 2268 cu. ft.
Storage Depth = 3 feet
Cleanout Elevation = 379.57
Outlet Elevation = 381.07
Bottom Elevation = 378.07
Side Slopes = 2:1
Surface Area @ Elevation 381.07 (*L.O.S.) = 1340 sq. ft.
Surface Area @ Elevation 378.07 (bottom) = 440 sq. ft.
Volume Provided = $\frac{1340+440}{2} \times 3 = 2670$ cu. ft.

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.
Joseph M. P... 4-20-93
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
Richard B... 4/26/93
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS & PUBLIC ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS
James M... 4/22/93
DIRECTOR DATE

Michael B... 4-12-93
CHIEF BUREAU OF ENGINEERING (M.K. CH...)

ENGINEER'S CERTIFICATE

"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."
CK... 11-17-92
Signature of Engineer Date

DEVELOPER'S/BUILDER'S CERTIFICATE

"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 HSCD."
... 2/24/93
Signature of Developer/Builder Date

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
... 4/12/93
Reviewed for HOWARD S.C.D. Name and meets Technical Requirements.
... 4/12/93
S.S. Soil Conservation Date Service

FOR LEGEND SEE SHEET 1 OF 13

FOR SEDIMENT CONTROL LEGEND SEE SHEET 11 OF 13

NOTE: THIS REVISED PLAN (SDP 00-42-R) SUPERCEDES THAT APPROVED UNDER SDP 00-42

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS SURVEYORS PLANNERS LANDSCAPE ARCHITECTS
35.9 NORTHVA... STATE... OFFICE PARK... BURTNSVILLE MD 20866

DATE	REVISION	BY	APP'R.
3/24/93	Revise entrance road, Grading, adjust Sed. Control Intersection design
11/10/92	GENERAL REVISIONS

PREPARED FOR:
THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE BUILDING
10275 LITTLE PATRIOT PKWY.
COLUMBIA, MD 21044
(301) 992-6027

SEDIMENT CONTROL PLAN - WEST
GATEWAY COMMERCE CENTER
BUILDING 20
PARCEL A-33, A-34, & A-35
HOWARD COUNTY, MARYLAND 6TH ELECTION DISTRICT

DES.	SCALE	ZONING	U.L.W. FILE No.
MJT	1" = 50'	M-1-B-2	91-056
DRN.	DATE	TAX MAP No.	SHEET
HK	NOV. 10, 1992	42	8 OF 13
CHK.			

SEDIMENT TRAP NO. 3305

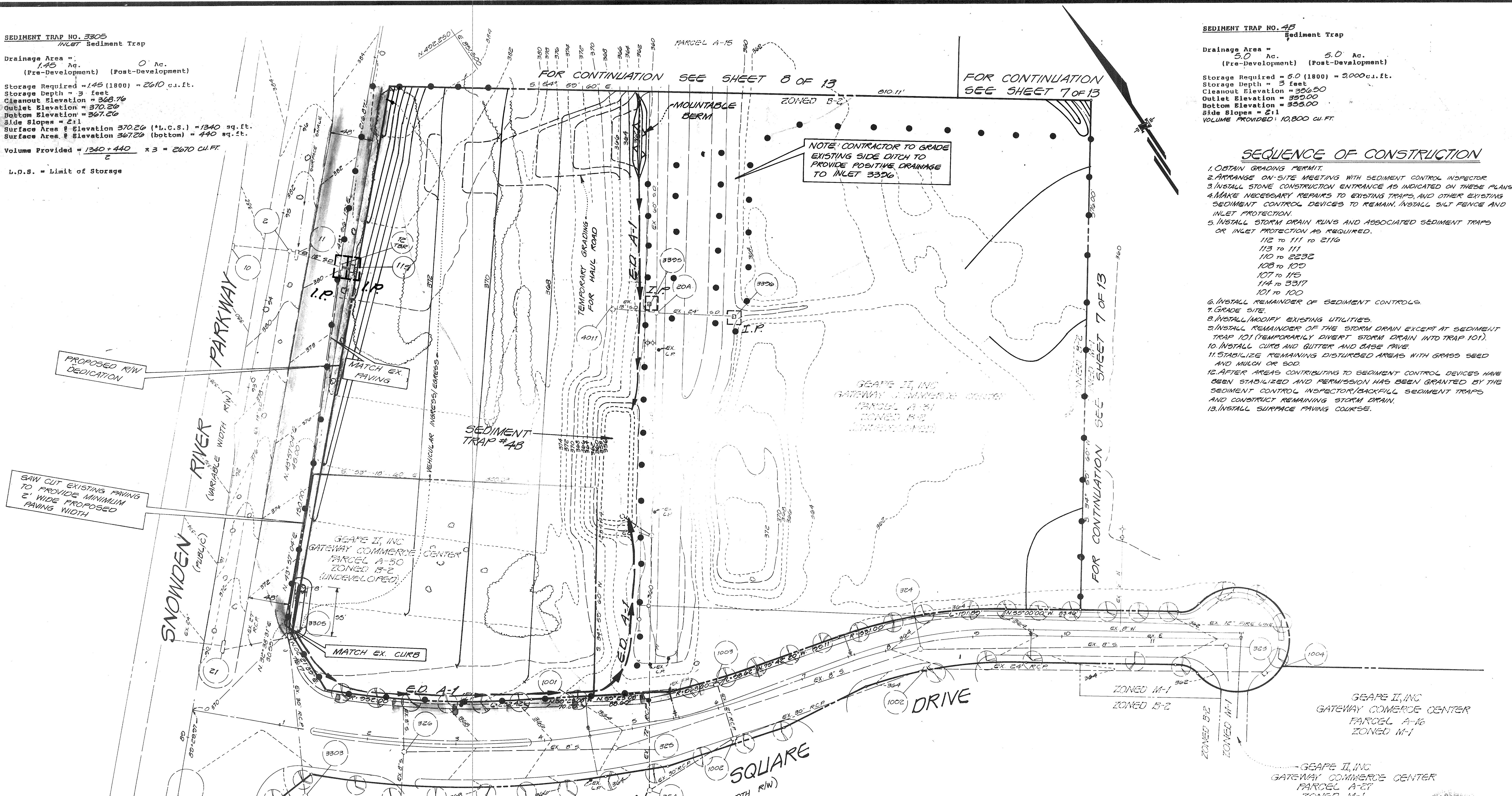
INLET Sediment Trap
 Drainage Area = 1.45 Ac. (Pre-Development) 0 Ac. (Post-Development)
 Storage Required = 1.45 (1800) = 2610 cu.ft.
 Storage Depth = 3 feet
 Cleanout Elevation = 368.76
 Outlet Elevation = 370.20
 Bottom Elevation = 367.60
 Side Slopes = 2:1
 Surface Area @ Elevation 370.20 (*L.C.S.) = 1340 sq.ft.
 Surface Area @ Elevation 367.20 (bottom) = 440 sq.ft.
 Volume Provided = $\frac{1340 + 440}{2} \times 3 = 2670$ cu.ft.
 L.P.S. = Limit of Storage

SEDIMENT TRAP NO. 4B

Sediment Trap
 Drainage Area = 5.0 Ac. (Pre-Development) 5.0 Ac. (Post-Development)
 Storage Required = 5.0 (1800) = 9000 cu.ft.
 Storage Depth = 3 feet
 Cleanout Elevation = 356.50
 Outlet Elevation = 355.00
 Bottom Elevation = 353.00
 Side Slopes = 2:1
 VOLUME PROVIDED: 10,800 cu.ft.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- ARRANGE ON-SITE MEETING WITH SEDIMENT CONTROL INSPECTOR
- INSTALL STONE CONSTRUCTION ENTRANCE AS INDICATED ON THESE PLANS
- MAKE NECESSARY REPAIRS TO EXISTING TRAPS, AND OTHER EXISTING SEDIMENT CONTROL DEVICES TO REMAIN. INSTALL SILT FENCE AND INLET PROTECTION.
- INSTALL STORM DRAIN RUNS AND ASSOCIATED SEDIMENT TRAPS OR INLET PROTECTION AS REQUIRED.
 - 112 TO 111 TO 2116
 - 113 TO 111
 - 110 TO 2232
 - 108 TO 100
 - 107 TO 115
 - 114 TO 3317
 - 101 TO 100
- INSTALL REMAINDER OF SEDIMENT CONTROLS
- GRADE SITE.
- INSTALL/MODIFY EXISTING UTILITIES.
- INSTALL REMAINDER OF THE STORM DRAIN EXCEPT AT SEDIMENT TRAP 101 (TEMPORARILY DIVERT STORM DRAIN INTO TRAP 101).
- INSTALL CURB AND GUTTER AND BASE PAVE
- STABILIZE REMAINING DISTURBED AREAS WITH GRASS SEED AND MULCH OR SOD
- AFTER AREAS CONTRIBUTING TO SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED AND PERMISSION HAS BEEN GRANTED BY THE SEDIMENT CONTROL INSPECTOR/BACKFILL SEDIMENT TRAPS AND CONSTRUCT REMAINING STORM DRAIN.
- INSTALL SURFACE PAVING COURSE.



APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPT.
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 11-20-92

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 DIRECTOR: *[Signature]* DATE: 11/20/92
 CHIEF DIVISION OF COMMUNITY PLANNING

APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
 HOWARD COUNTY DEPT. OF PUBLIC WORKS
 DIRECTOR: *[Signature]* DATE: 11/19/92
 CHIEF BUREAU OF ENGINEERING

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] DATE: 11/19/92

Reviewed for HOWARD S.C.D. Technical Requirements.
 U.S. Soil Conservation Service
[Signature] DATE: 11-19-92

DEVELOPER'S/BUILDER'S CERTIFICATE
 "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 NSCD."
 Signature of Developer/Builder: *[Signature]* DATE: 11-18-92



ENGINEER'S CERTIFICATE
 "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 of Engineer: *[Signature]* DATE: 11-17-92

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866
 TELEPHONE: (301) 421-4024 NO. VA. (301) 989-2524 BALTO. (301) 880-1820 FAX (301) 421-4186

DATE	REVISION	BY	APPR.
11-16-92	REV. GRADING, BODIED INLET PROTECTION	LH	MUTHK
11-16-92	GENERAL REVISIONS		

PREPARED FOR:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE ROUSE BUILDING
 10275 LITTLE PATENT PKWY.
 COLUMBIA, MD. 21044
 (301) 992-6027

SEDIMENT CONTROL PLAN - BORROW AREA
GATEWAY COMMERCE CENTER
 BUILDING 20
 PARCEL A-33, A-34 & A-35
 HOWARD COUNTY, MARYLAND
 6TH ELECTION DISTRICT

DES.:	SCALE	ZONING	G.L.W. FILE NO.
MJT	1" = 50'	M-1 & B-2	91-056
DRN.:	DATE	TAX MAP NO.	SHEET
HK	NOV, 10, 1992	42	3 OF 13
CHK.:			

SEDIMENT TRAP NO. 108
INLET Sediment Trap

Drainage Area = 1.0 Ac.
(Pre-Development) (Post-Development)

Storage Required = 1,00(1800) = 1800 cu.ft.
Storage Depth = 3 feet
Cleanout Elevation = 348.50
Outlet Elevation = 350.00
Bottom Elevation = 347.00
Side Slopes = 2:1
Surface Area @ Elevation 350.00 (*L.C.S.) = 1225 sq.ft.
Surface Area @ Elevation 347.00 (bottom) = 520 sq.ft.

Volume Provided = $\frac{1225+520}{2} \times 3 = 2700$ cu.ft.

L.D.S. = Limit of Storage

SEDIMENT TRAP NO. 110
INLET Sediment Trap

Drainage Area = 0.73 Ac.
(Pre-Development) (Post-Development)

Storage Required = 0.73(1800) = 1314 cu.ft.
Storage Depth = 3 feet
Cleanout Elevation = 348.50
Outlet Elevation = 350.00
Bottom Elevation = 347.00
Side Slopes = 2:1
Surface Area @ Elevation 350.00(*L.C.S.) = 900 sq.ft.
Surface Area @ Elevation 347.00 (bottom) = 264 sq.ft.

Volume Provided = $\frac{900+264}{2} \times 3 = 1740$ cu.ft.

L.D.S. = Limit of Storage

SEDIMENT TRAP NO. 114
INLET Sediment Trap

Drainage Area = 0.40 Ac.
(Pre-Development) (Post-Development)

Storage Required = 0.40(1800) = 720 cu.ft.
Storage Depth = 3 feet
Cleanout Elevation = 355.0
Outlet Elevation = 357.4
Bottom Elevation = 354.4
Side Slopes = 2:1
Surface Area @ Elevation 357.4 (*L.C.S.) = 625 sq.ft.
Surface Area @ Elevation 354.4 (bottom) = 169 sq.ft.

Volume Provided = $\frac{625+169}{2} \times 3 = 1191$ cu.ft.

L.D.S. = Limit of Storage

SEDIMENT TRAP NO. 115
INLET Sediment Trap

Drainage Area = 1.54 Ac.
(Pre-Development) (Post-Development)

Storage Required = 1.54(1800) = 2,772 cu.ft.
Storage Depth = 3 feet
Cleanout Elevation = 348.50
Outlet Elevation = 350.00
Bottom Elevation = 347.00
Side Slopes = 2:1
Surface Area @ Elevation 350.00(*L.C.S.) = 1600 sq.ft.
Surface Area @ Elevation 347.00 (bottom) = 784 sq.ft.

Volume Provided = $\frac{1600+784}{2} \times 3 = 3576$ cu.ft.

L.D.S. = Limit of Storage

SEDIMENT TRAP NO. 2205
INLET Sediment Trap

Drainage Area = 0.72 Ac.
(Pre-Development) (Post-Development)

Storage Required = 0.72(1800) = 1296 cu.ft.
Storage Depth = 3 feet
Cleanout Elevation = 348.50
Outlet Elevation = 350.00
Bottom Elevation = 347.00
Side Slopes = 2:1
Surface Area @ Elevation 350.00 (*L.C.S.) = 900 sq.ft.
Surface Area @ Elevation 347.00 (bottom) = 324 sq.ft.

Volume Provided = $\frac{900+324}{2} \times 3 = 1836$ cu.ft.

L.D.S. = Limit of Storage

SEDIMENT TRAP NO. 2259
INLET Sediment Trap

Drainage Area = 1.11 Ac.
(Pre-Development) (Post-Development)

Storage Required = 1.11(1800) = 1998 cu.ft.
Storage Depth = 3 feet
Cleanout Elevation = 351.53
Outlet Elevation = 353.03
Bottom Elevation = 350.03
Side Slopes = 2:1
Surface Area @ Elevation 353.03 (*L.C.S.) = 1225 sq.ft.
Surface Area @ Elevation 350.03 (bottom) = 520 sq.ft.

Volume Provided = $\frac{1225+520}{2} \times 3 = 2631$ cu.ft.

L.D.S. = Limit of Storage

SEDIMENT TRAP NO. 3313
INLET Sediment Trap

Drainage Area = 0.45 Ac.
(Pre-Development) (Post-Development)

Storage Required = 0.45(1800) = 810 cu.ft.
Storage Depth = 3 feet
Cleanout Elevation = 356.33
Outlet Elevation = 357.83
Bottom Elevation = 354.83
Side Slopes = 2:1
Surface Area @ Elevation 357.83 (*L.C.S.) = 625 sq.ft.
Surface Area @ Elevation 354.83 (bottom) = 169 sq.ft.

Volume Provided = $\frac{625+169}{2} \times 3 = 1191$ cu.ft.

L.D.S. = Limit of Storage

SEDIMENT TRAP NO. 3315
INLET Sediment Trap

Drainage Area = 0.67 Ac.
(Pre-Development) (Post-Development)

Storage Required = 0.67(1800) = 1206 cu.ft.
Storage Depth = 3 feet
Cleanout Elevation = 355.93
Outlet Elevation = 357.43
Bottom Elevation = 354.43
Side Slopes = 2:1
Surface Area @ Elevation 357.43 (*L.C.S.) = 900 sq.ft.
Surface Area @ Elevation 354.43 (bottom) = 324 sq.ft.

Volume Provided = $\frac{900+324}{2} \times 3 = 1836$ cu.ft.

L.D.S. = Limit of Storage

SEDIMENT TRAP NO. 3318
INLET Sediment Trap

Drainage Area = 3.11 Ac.
(Pre-Development) (Post-Development)

Storage Required = 3.11(1800) = 5598 cu.ft.
Storage Depth = 3 feet
Cleanout Elevation = 355.76
Outlet Elevation = 357.26
Bottom Elevation = 354.26
Side Slopes = 2:1
Surface Area @ Elevation 357.26 (*L.C.S.) = 2025 sq.ft.
Surface Area @ Elevation 354.26 (bottom) = 1449 sq.ft.

Volume Provided = $\frac{2025+1449}{2} \times 3 = 6,111$ cu.ft.

L.D.S. = Limit of Storage

DRAINAGE AREA TABULATION

STRUCTURE NO	DRAINAGE AREA	IMPERVIOUS AREA	PERVIOUS AREA	'C' FACTOR
112	0.40	-	0.40	0.25
3313	0.45	0.23	0.22	0.25
3317	0.23	-	0.23	0.25
3313	0.67	0.09	0.58	0.33
3313	0.45	0.06	0.39	0.33
2275	0.57	0.09	0.48	0.34
2258	0.23	0.10	0.13	0.53
2259	0.31	0.06	0.25	0.37
2252	0	-	-	-
4033	0.24	0.02	0.18	0.40
2100	0.80	0.80	-	0.85
2115	0.76	0.72	-	0.85
2116	0	-	-	-
FC-1	0.78	0.78	-	0.85
112	0.57	0.46	0.11	0.73
113	0.40	0.29	0.11	0.60
2224	0.73	0.73	-	0.85
FC-2	0.80	0.80	-	0.85
2223	0	-	-	-
2230	0.70	0.70	-	0.85
2232	0.69	0.69	-	0.85
110	0.73	0.55	0.18	0.70
FC-3	0.93	0.93	-	0.85
2236	0.80	0.80	-	0.85
2238	0.77	0.77	-	0.85
2254	0.85	0.85	-	0.85
2255	0.87	0.87	-	0.85
2253	0.86	0.86	-	0.85
115	1.00	0.70	0.30	0.70
2205	0.72	0.54	0.18	0.70
108	1.00	0.68	0.32	0.60
4047	0.52	0.23	0.29	0.60

SEDIMENT TRAP NO. 4047
INLET SEDIMENT TRAP

Drainage Area = 1.49 Ac.
(Pre-Development) (Post-Development)

Storage Required = 1.49(1800) = 2682 cu.ft.
Storage Depth = 3 ft.
Cleanout Elev. = 348.50
Outlet Elev. = 350.00
Bottom Elev. = 347.00
Side Slopes = 2:1
Surface Area @ Elev. 350.00 (*L.O.S.) = 1600 sq. ft.
Surface Area @ Elev. 347.00 (bottom) = 784 sq. ft.

Volume Provided = $\frac{1600+784}{2} \times 3 = 3,576$ cu.ft.

L.O.S. = LIMIT OF STORAGE

SEDIMENT TRAP NO. 2193
INLET SEDIMENT TRAP

Drainage Area = 1.46 Ac.
(Pre-Development) (Post-Development)

Storage Required = 1.46(1800) = 2628 cu.ft.
Storage Depth = 3 feet
Cleanout Elevation = 340.60
Outlet Elevation = 342.10
Bottom Elevation = 339.10
Side Slopes = 2:1
Surface Area @ Elev. 342.10 (*L.O.S.) = 1400 sq. ft.
Surface Area @ Elev. 339.10 (bottom) = 784 sq. ft.

Volume Provided = $\frac{1600+784}{2} \times 3 = 3,576$ cu.ft.

L.O.S. = LIMIT OF STORAGE

SEDIMENT TRAP NO. 2125
INLET SEDIMENT TRAP

Drainage Area = 0.74 Ac.
(Pre-Development) (Post-Development)

Storage Required = 0.74(1800) = 1332 cu.ft.
Storage Depth = 3 feet
Cleanout Elevation = 350.91
Outlet Elevation = 351.41
Bottom Elevation = 353.41
Side Slopes = 2:1
Surface Area @ Elev. 351.41 (*L.O.S.) = 900 sq. ft.
Surface Area @ Elev. 353.41 (bottom) = 264 sq. ft.

Volume Provided = $\frac{900+264}{2} \times 3 = 1740$ cu.ft.

L.O.S. = LIMIT OF STORAGE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY, HEALTH DEPT.
[Signature] 11-21-92
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
[Signature] 11/20/92
CHIEF DIVISION OF COMMUNITY PLANNING

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS, HOWARD COUNTY DEPT. OF PUBLIC WORKS
[Signature] 11/19/92
DIRECTOR

[Signature] 11-18-92
CHIEF BUREAU OF ENGINEERING

ENGINEER'S CERTIFICATE
"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] 11-17-92
DATE

[Signature] 11/19/92
DATE

[Signature]
DATE

DEVELOPER'S/BUILDER'S CERTIFICATE
"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 HSDO."
[Signature] 11-18-92
Signature of Developer/Builder Date

Reviewed for HOWARD S.J.S.
[Signature] 11/19/92
Name: *[Signature]*
Title: *[Signature]*
Date: 11/19/92

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Howard S.J.S. Date: _____

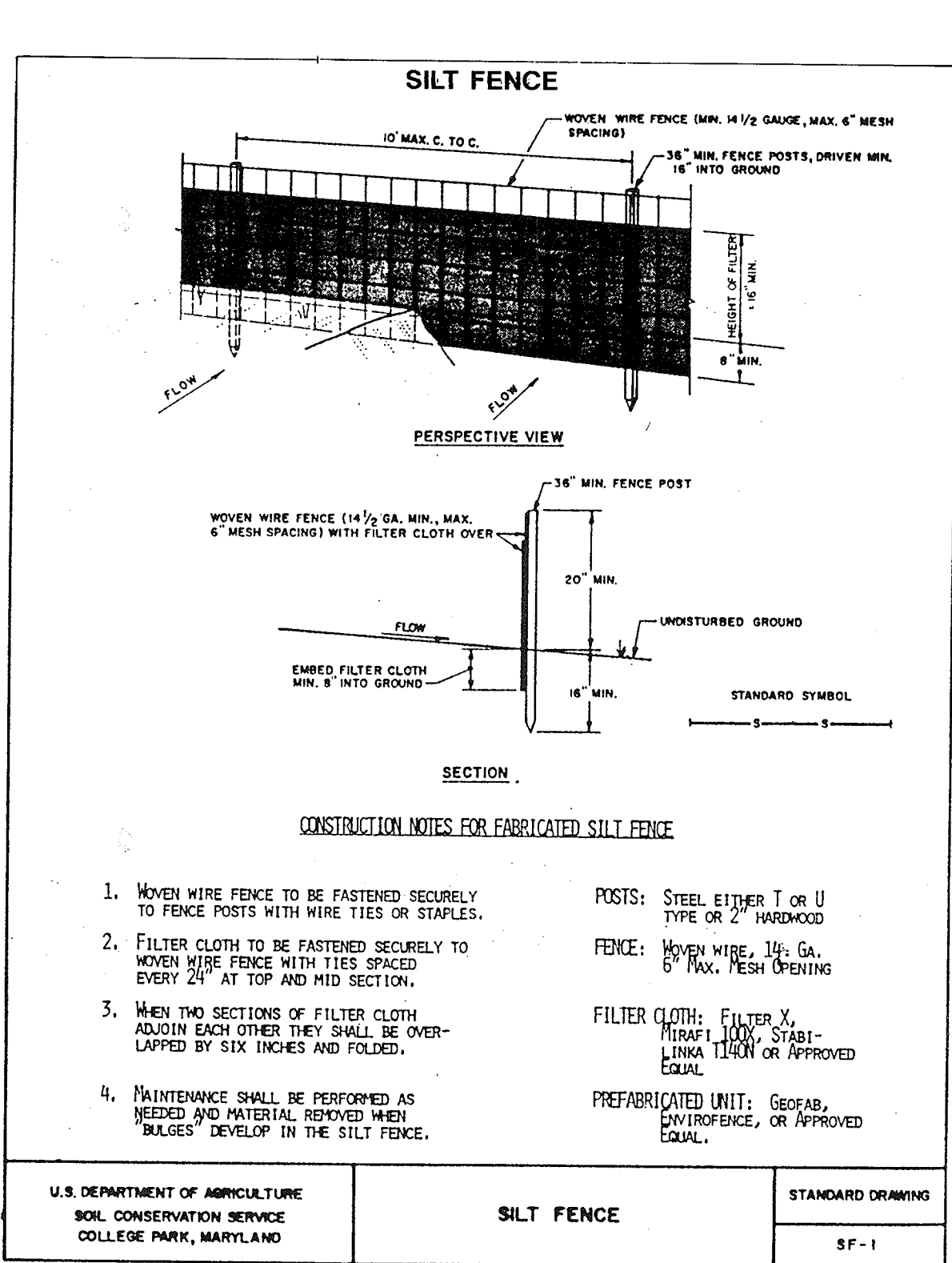
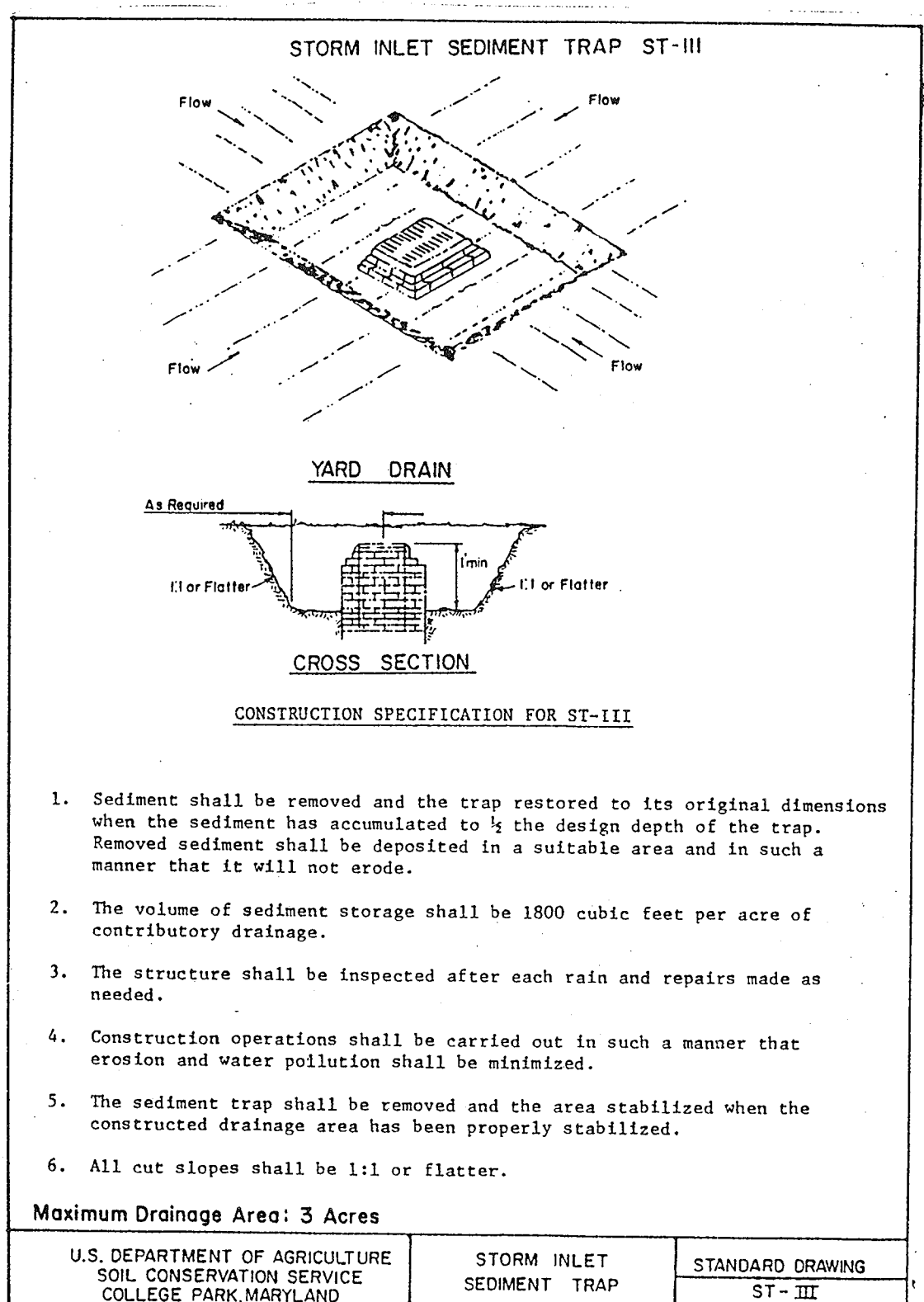
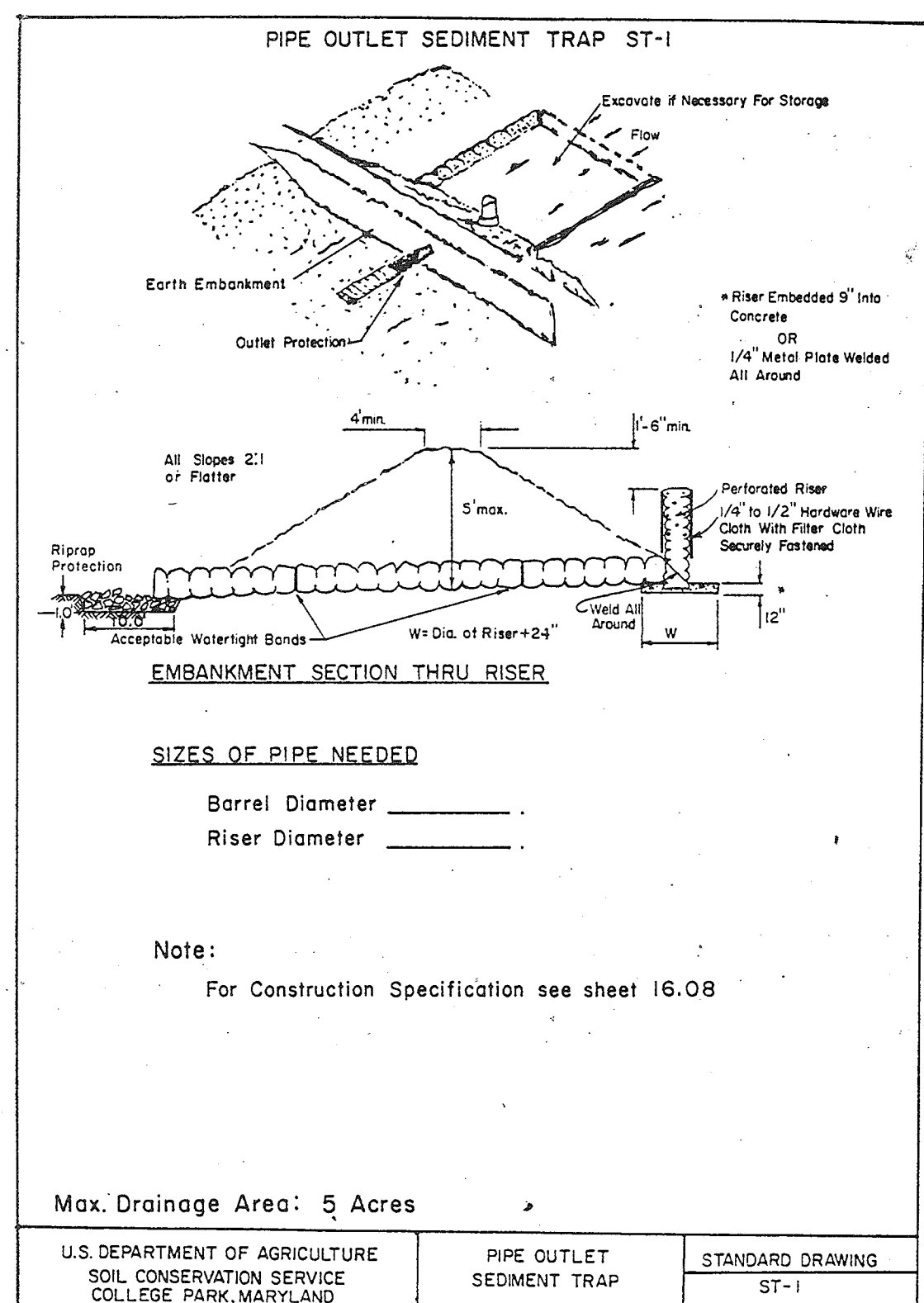
GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20866
TELEPHONE (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP'R.
11-18-92	REV. SED. TRAP CHARTS	LH	

PREPARED FOR:
THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE HOUSE BUILDING
10275 LITTLE PATRICK PKWY.
COLUMBIA, MD. 21044
(301) 992-6027

SEDIMENT TRAP DATA
GATEWAY COMMERCE CENTER
BUILDING 20
PARCEL A-33, A-34 & A-35
HOWARD COUNTY, MARYLAND

DES.:	SCALE	ZONING	G.L.W. FILE No.
MJT		M-1 & B-2	91-050
DRN.:	DATE	TAX MAP No.	SHEET
FK	NOV, 10, 1992	42	10 OF 13
CHK.:			



SEDIMENT CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
- All vegetative and structural practices are to be installed according to the provisions of 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 redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes and perimeter 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 seedings (Sec. 51, and Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization, with mulch alone can only be done with recommended seeding rates, do not allow for proper germination and establishment of grasses.
- 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.

PERMANENT SEEDING NOTES

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

Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless previously loosened).

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square feet) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 26, protect 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 sod. Option (3) Seed with 60 lbs pure Kentucky 31 Tall Fescue and mulch with 2 tons pure well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrattled 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. In slopes 8 ft or higher, use 343 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance: 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.

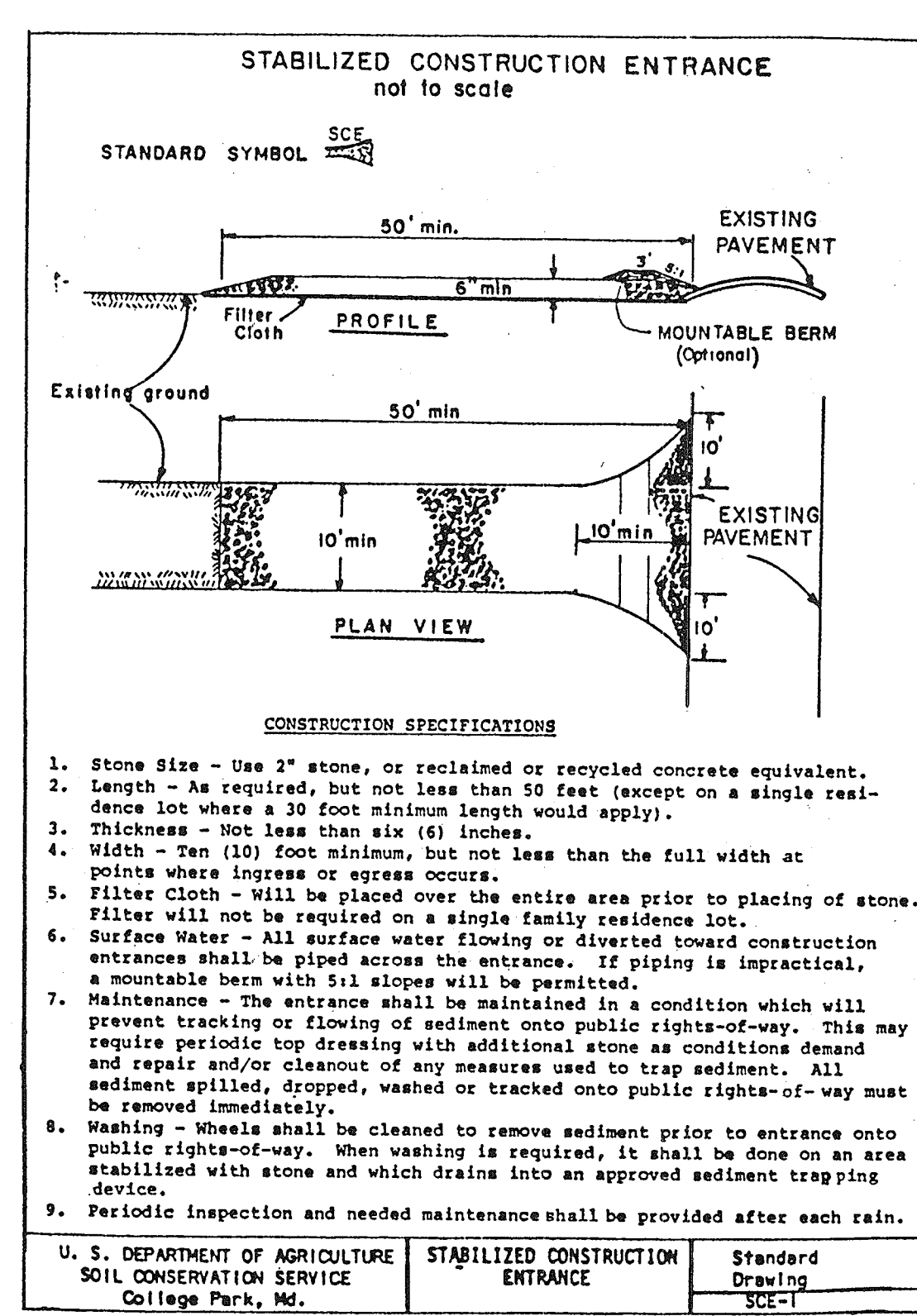
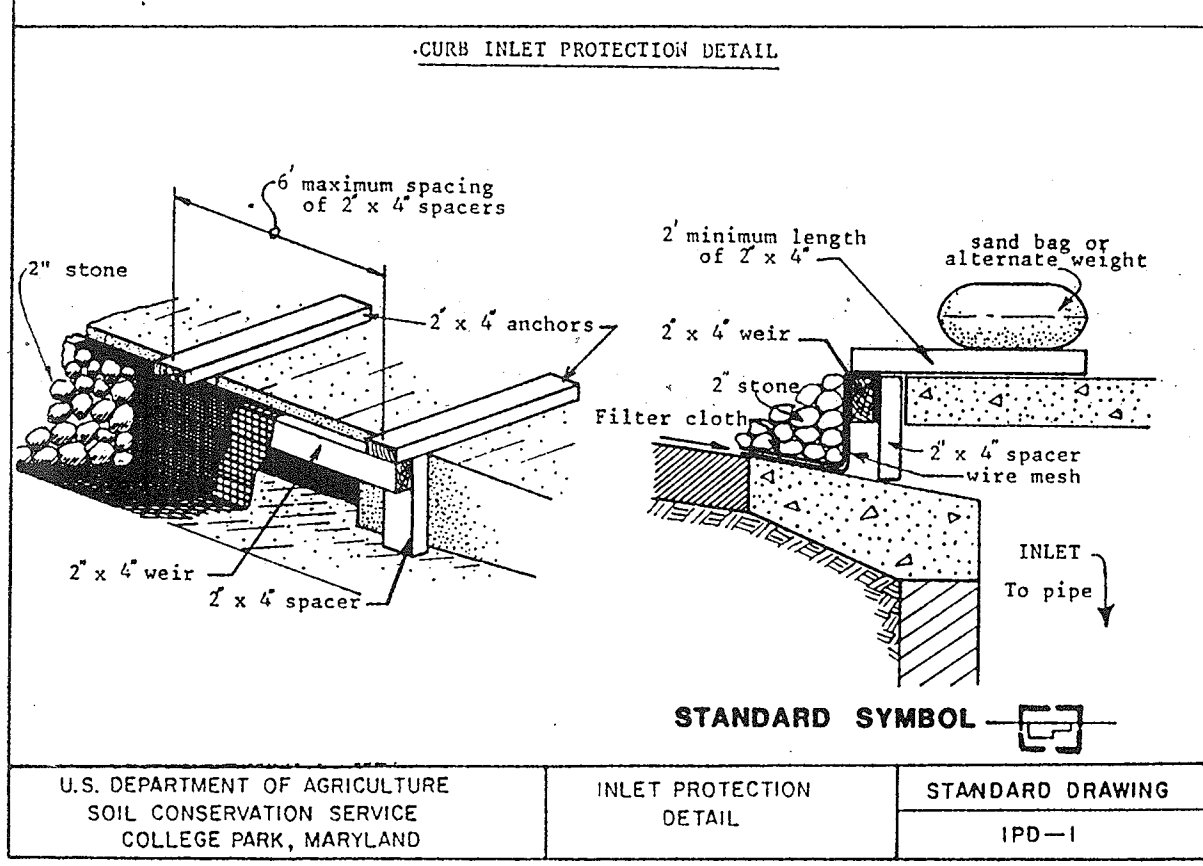
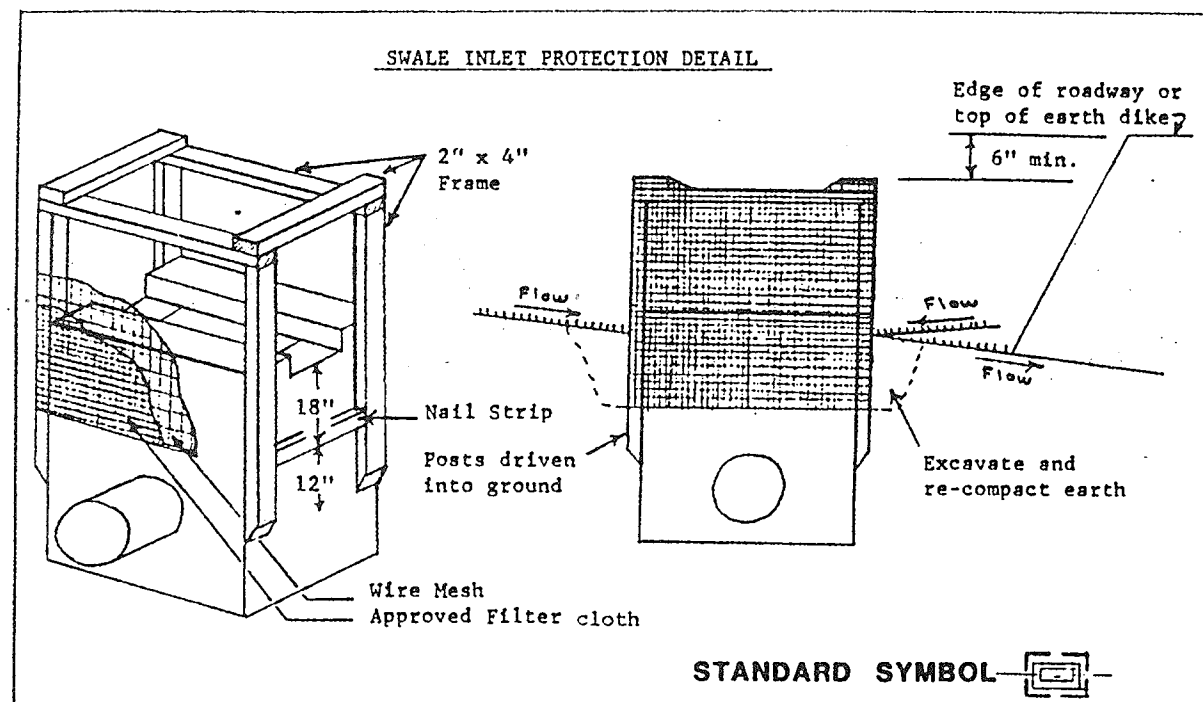
Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless previously loosened).

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrattled 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.

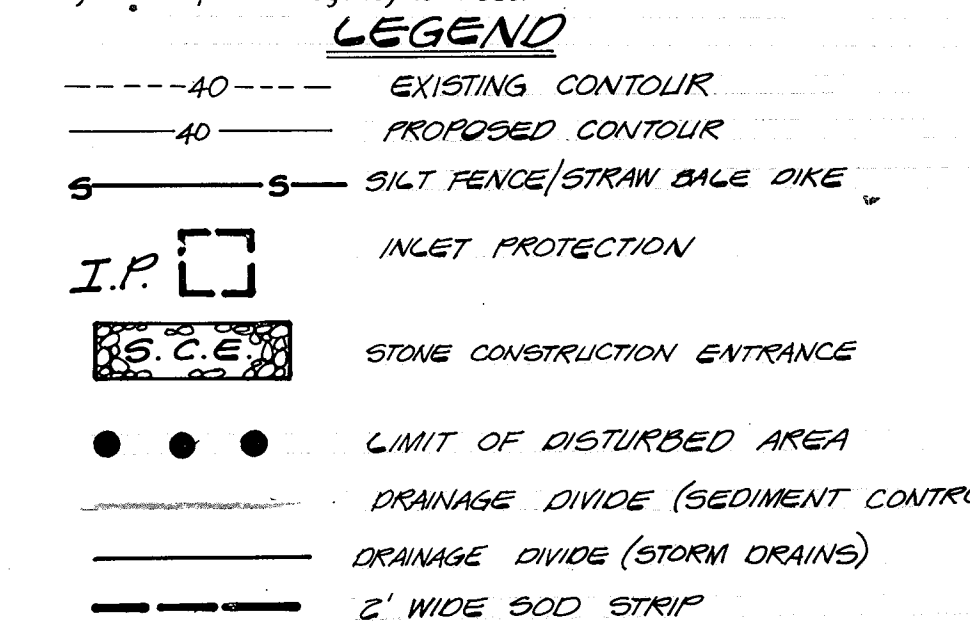
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



Maryland SCS/WRA April 1983

II. Procedure

- Excavate completely around inlet to a depth of 18" below notch elevation.
 - Drive 2 x 4 post 1' into ground at four corners of inlet. Place nail strips between posts on ends of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
 - Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
 - Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elev. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
 - Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
 - If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of frame (weir).
 - This structure must be inspected frequently and the filter fabric replaced when clogged.
- 3. Curb Inlet Protection.**
- Attach a continuous piece of wire mesh (20" 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 (40-85 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 3" 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 end spacers are a 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.



APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.
[Signature] 11-20-92
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
[Signature] 11/20/92
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS, HOWARD COUNTY DEPT. OF PUBLIC WORKS
[Signature] 11/19/92
 DIRECTOR DATE

[Signature] 11-19-92
 CHIEF, BUREAU OF ENGINEERING & M.K. DATE

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

[Signature] 11/19/92
 S.C.D. DATE

Reviewed for HOWARD S.C.D. Name: *[Signature]* Date: 11-19-92

Soil Conservation Service

ENGINEER'S CERTIFICATE

"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] 11-17-92
 Date

DEVELOPER'S/BUILDER'S CERTIFICATE

"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 SCS."

[Signature] 11-18-92
 Signature of Developer/Builder Date

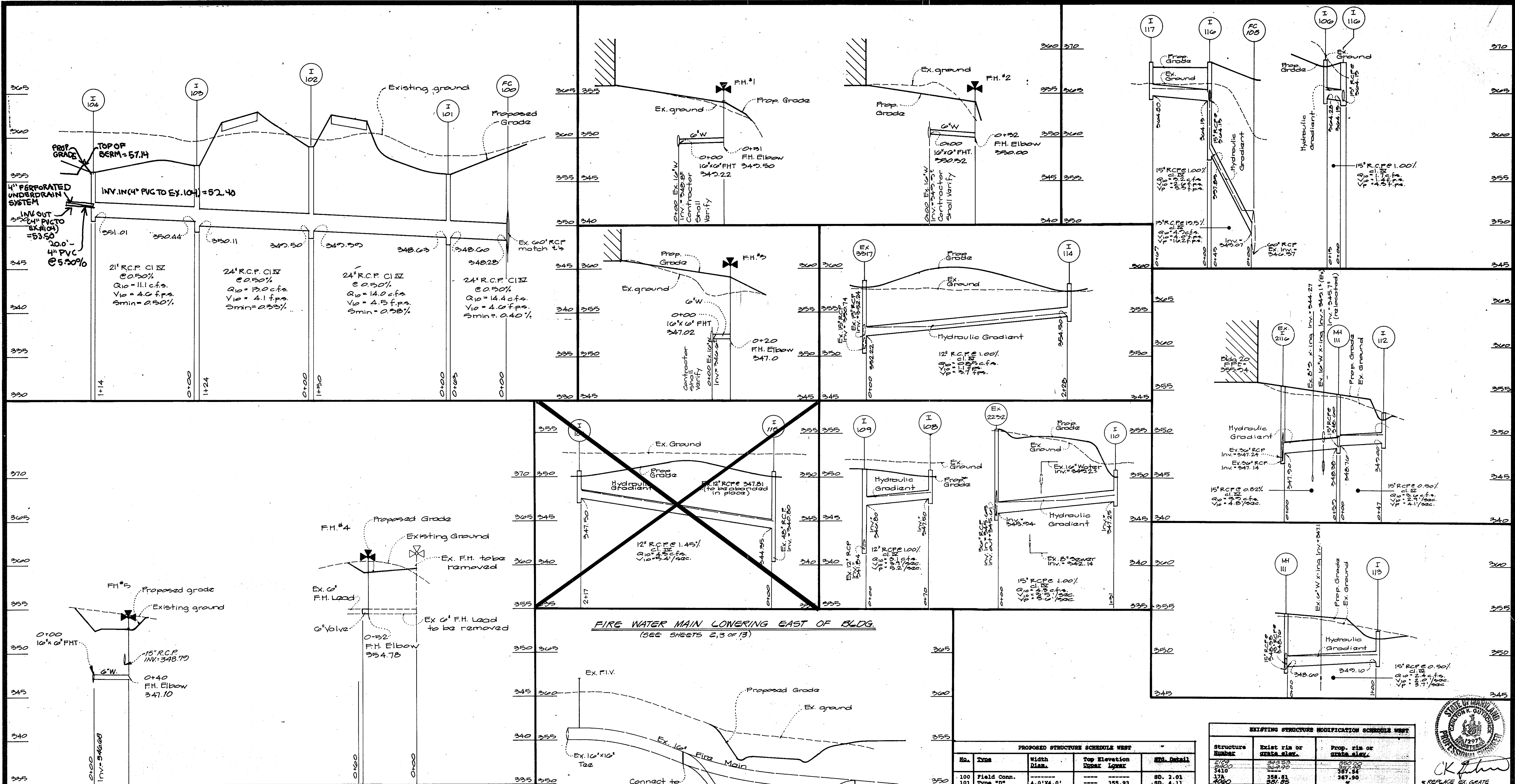
GLW GUTSCHICK LITTLE & WEBER, P.A.
 ENGINEERS, PLANNERS, SURVEYORS
 3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20866
 TELEPHONE: (301) 421-4024

3-20-03	REV SED CONTROL NOTES	CH	
11-10-92	GENERAL REVISIONS	INT/K	
DATE	REVISION	BY	APP'R.

PREPARED FOR:
 THE HOWARD RESEARCH & DEVELOPMENT CORP
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PKWY
 COLUMBIA, MD. 21044
 (301) 592-6027

SEDIMENT CONTROL NOTES & DETAILS
GATEWAY COMMERCE CENTER
 BUILDING 20
 PARCEL A-33, A-34 & A-35
 HOWARD COUNTY, MARYLAND
 6TH ELECTION DISTRICT

SCALE	ZONING	G.L.W. FILE No.
	M-18B2	31-056
DATE	TAX MAP No.	SHEET
NOV. 10, 1992	42	11 OF 13



Approved for Public Water & Public Sewerage Systems, Howard County Health Dept.
James J. ... 11-28-92
 Health Officer

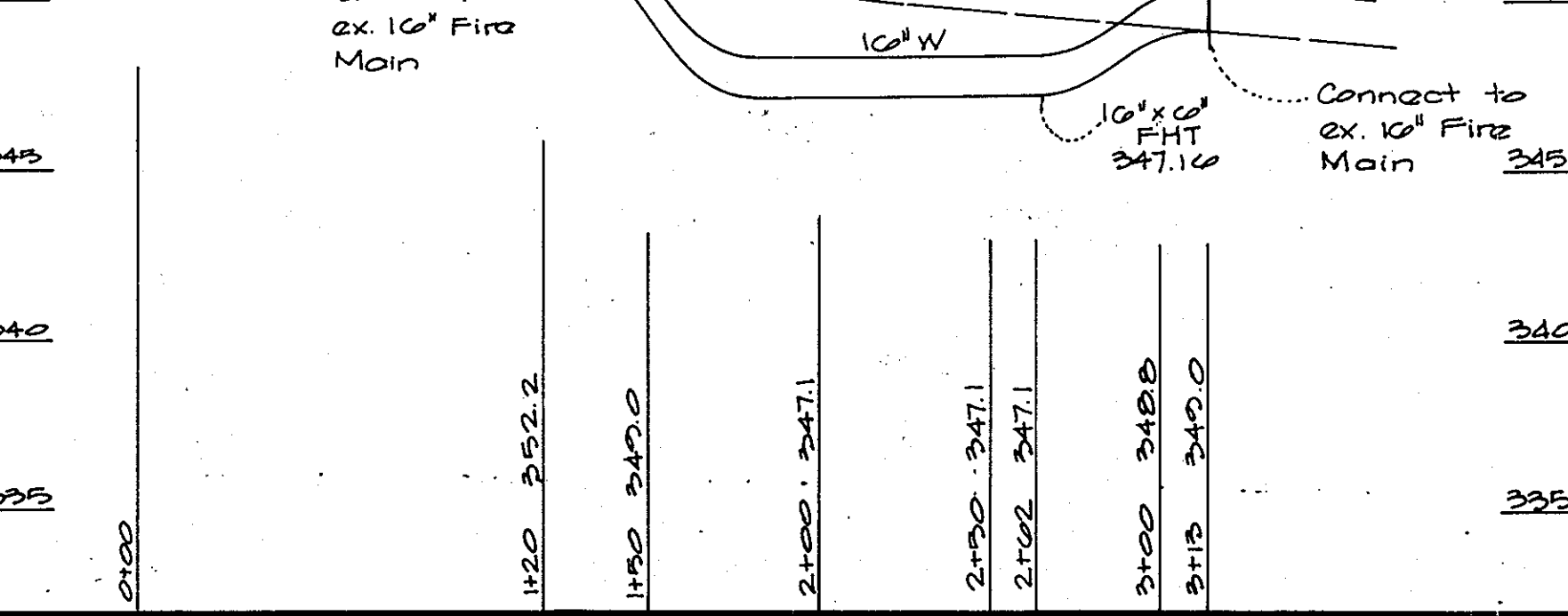
Approved: Howard County Dept. of Planning
... 11/20/92
 Director of Community Planning

Approved for Public Water & Public Sewerage Storm Drainage Systems and Public Roads, Howard County Dept. of Public Works
... 11/19/92
 Director

Chief, Bureau of Engineering M.K. Date

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 License No. 11111
 FOR 7/21/2013 REVISION ONLY

Profiles
 1" = 5' vert.
 1" = 50' hor.



PROPOSED STRUCTURE SCHEDULE WEST				
No.	Type	Width Diam.	Top Elevation Invert	Std. Detail
100	Field Conn.	4.0'x4.0'	355.93	SD. 2.01
101	Type "B"	4.0'x4.0'	355.00	SD. 4.11
102	Type "B"	4.0'x4.0'	355.00	SD. 4.11
103	Single "S"	4.0'x4.0'	356.82	SD. 4.22
105	Field Conn.	4.0'x4.0'	356.00	SD. 2.01
106	Type "B"	4.0'x4.0'	356.00	SD. 4.11
116	A-10	2.5'	300.00	SD. 4.02
117	A-10	2.5'	300.00	SD. 4.02
118	A-10	2.5'	301.95	SD. 4.02
119	A-10	2.5'	300.00	SD. 4.02

PROPOSED STRUCTURE SCHEDULE EAST				
No.	Type	Width Diam.	Top Elevation Invert	Std. Detail
104	Single Type "S"	4.0'x4.0'	356.14	SD. 4.22
105	Type "B"	4.0'x4.0'	350.00	SD. 4.11
107	Type "B"	4.0'x4.0'	350.00	SD. 4.11
108	Type "B"	4.0'x4.0'	350.00	SD. 4.11
109	Std. Manhole	4.0'	351.20	G. 5.01
110	Type "B"	4.0'x4.0'	350.00	SD. 4.11
111	Std. Manhole	4.0'	354.55	G. 5.01
112	Type "B"	4.0'x4.0'	351.80	SD. 4.11
113	Type "B"	4.0'x4.0'	351.80	SD. 4.11
114	Type "B"	4.0'x4.0'	357.40	SD. 4.11

EXISTING STRUCTURE MODIFICATION SCHEDULE WEST		
Structure Number	Exist rim or grate elev.	Prop. rim or grate elev.
2109	355.62	355.59
2115	354.20	355.51
2116	354.78	355.51
2205	350.87	350.00
2223	355.49	355.52
2224	354.94	355.51
2228	355.26	355.48
2232	355.20	355.52
2236	355.18	355.62
2238	354.48	355.48
2243	353.56	355.62
2244	355.66	355.04
2252	352.43	355.03
2253	354.54	355.64
2254	354.67	355.64
2255	354.27	355.81

EXISTING STRUCTURE MODIFICATION SCHEDULE EAST		
Structure Number	Exist rim or grate elev.	Prop. rim or grate elev.
4043	355.45	355.99
4044	356.41	355.88
4045	355.95	355.99
4047	355.39	355.00

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20886
 TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

PREPARED FOR:
 Howard Research & Development Corp.
 The Route Building
 10275 Little Patuxent Pkwy.
 Columbia, Maryland 21044
 (410) 722-0027

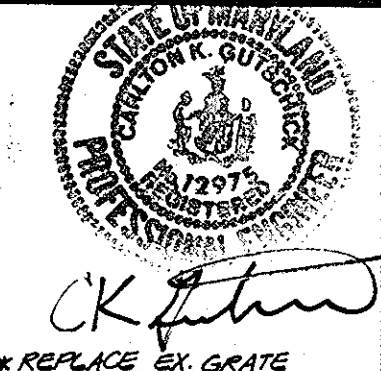
Storm Drain Profiles
Gateway Commerce Center
 Building 20
 Parcel A-33, A-34 & A-35
 6th Election Dist.
 Howard County, Md

DES: mjt/dav
 DRN: mcf
 CHK: ckj

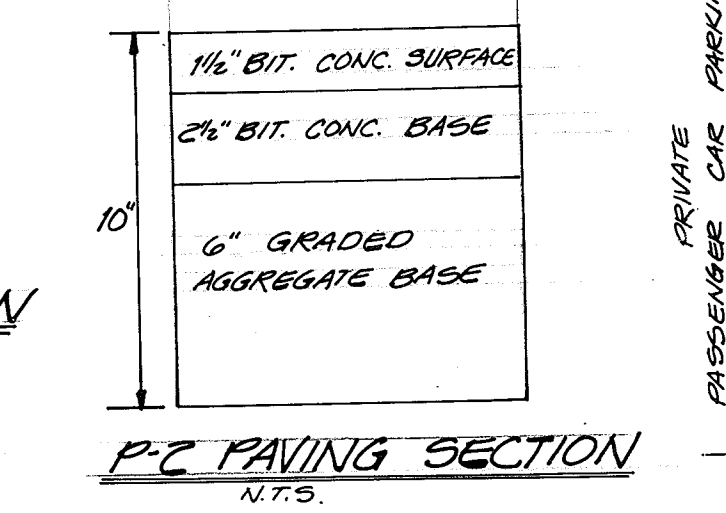
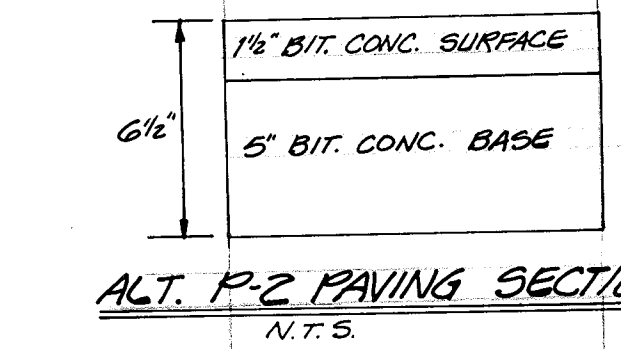
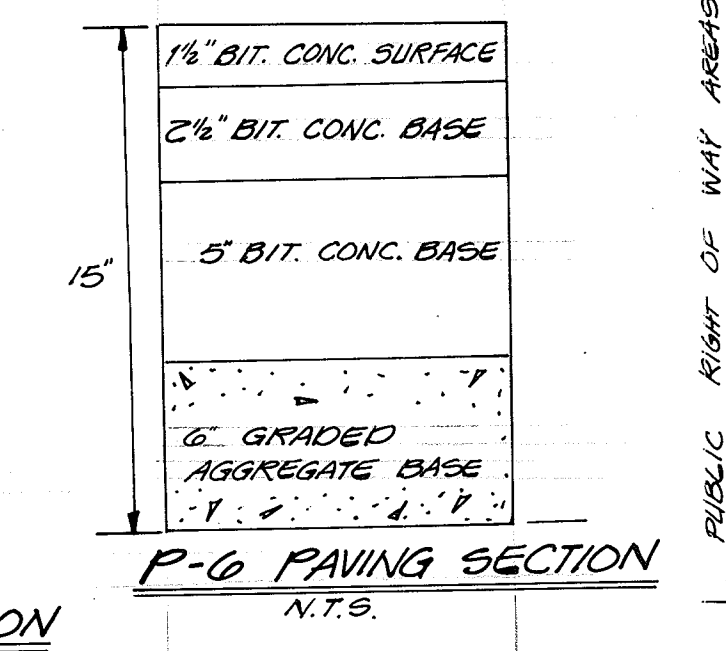
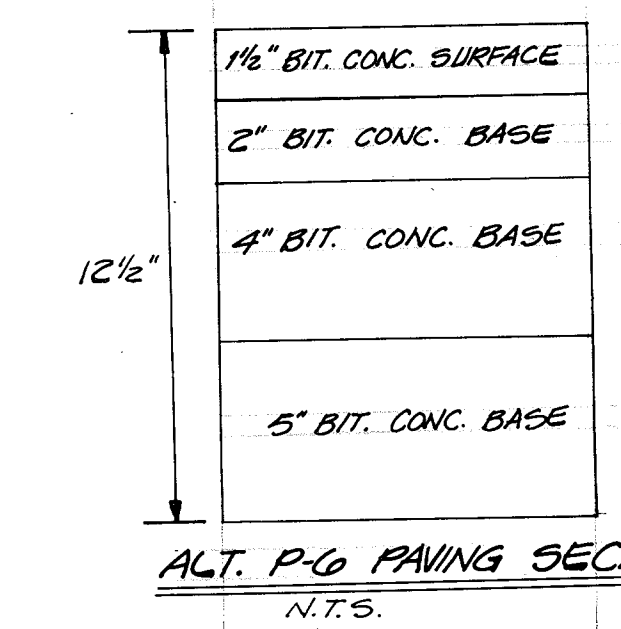
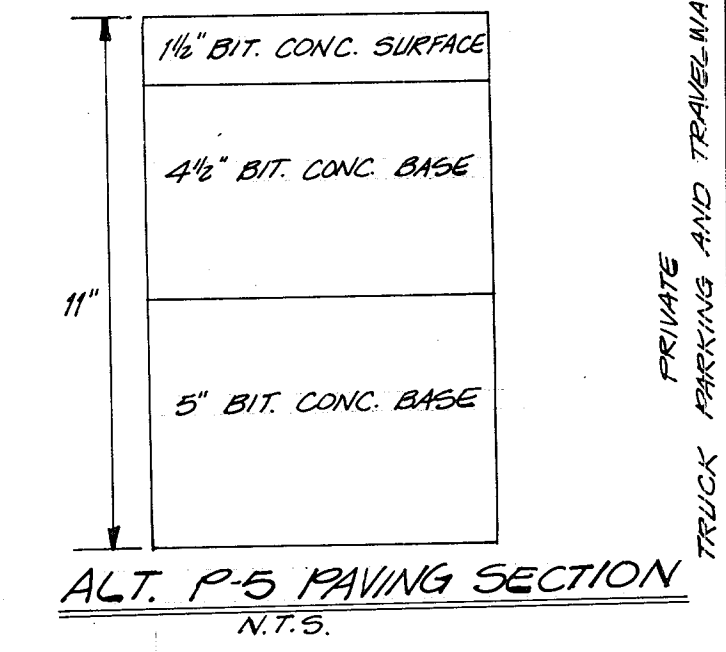
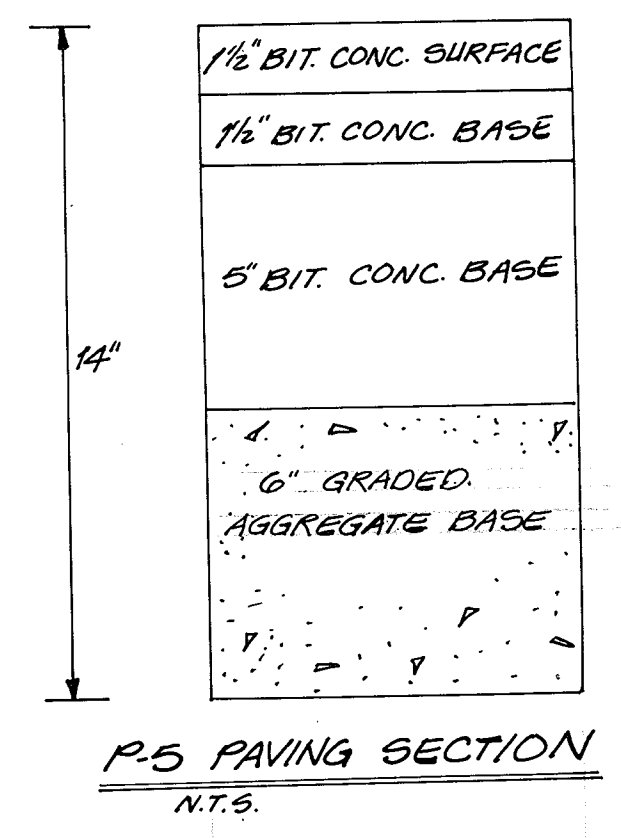
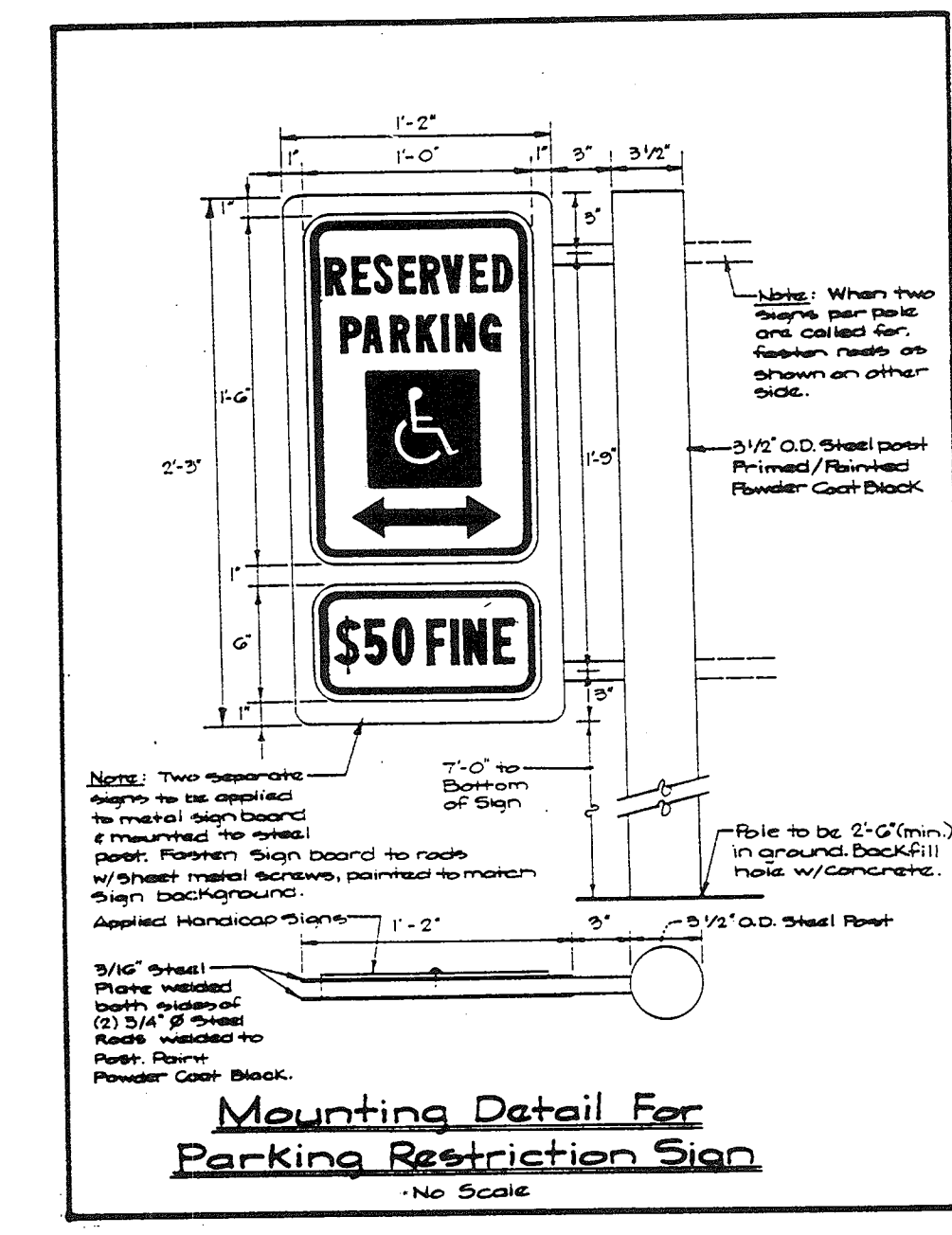
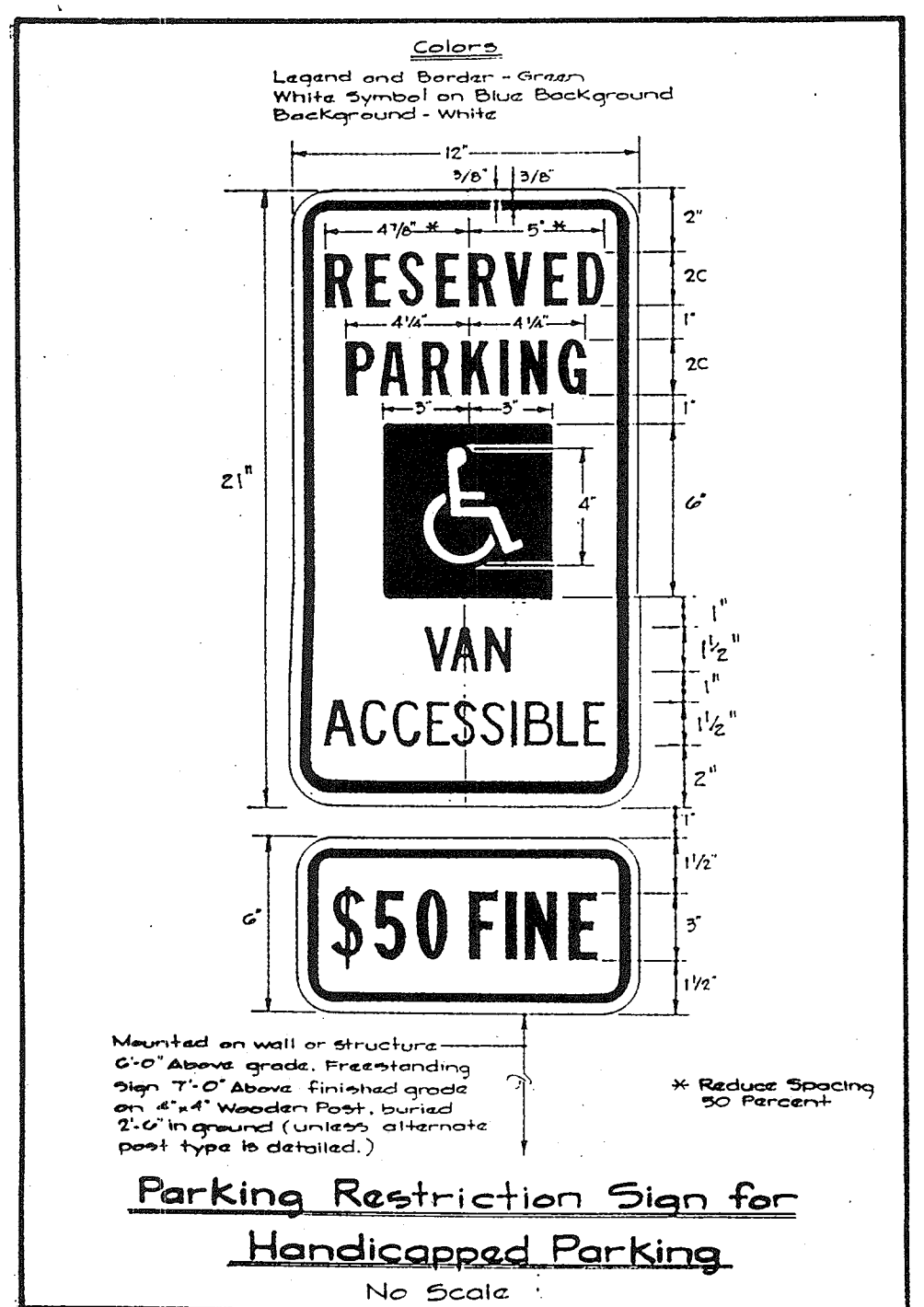
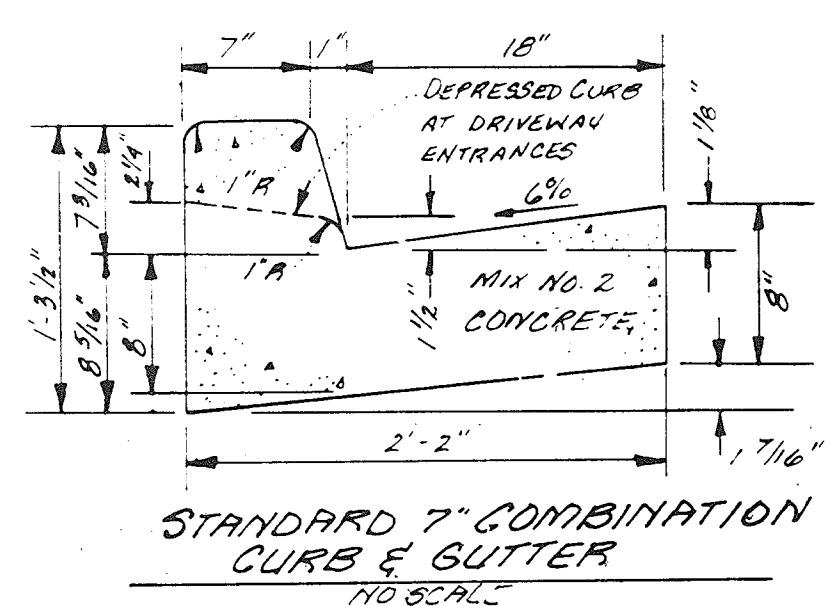
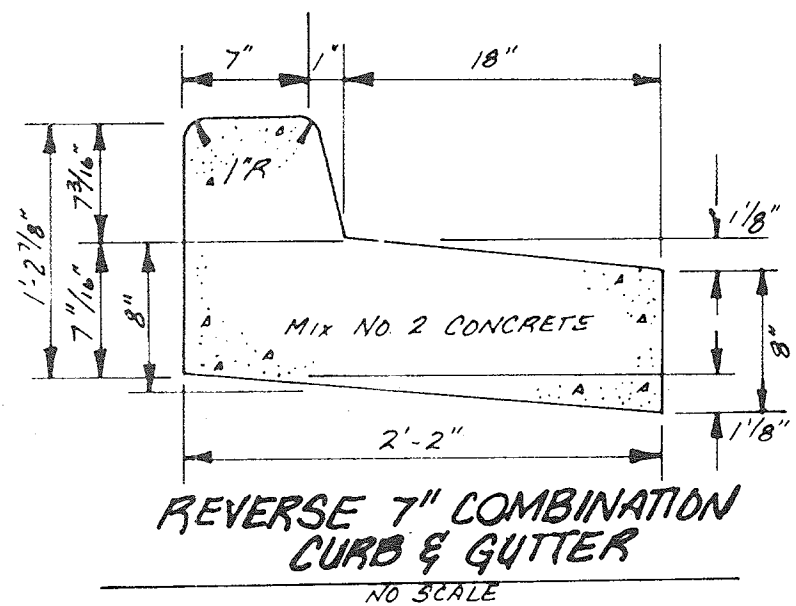
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ZONING: M-1 & B-2
 TAX MAP NO.: 42

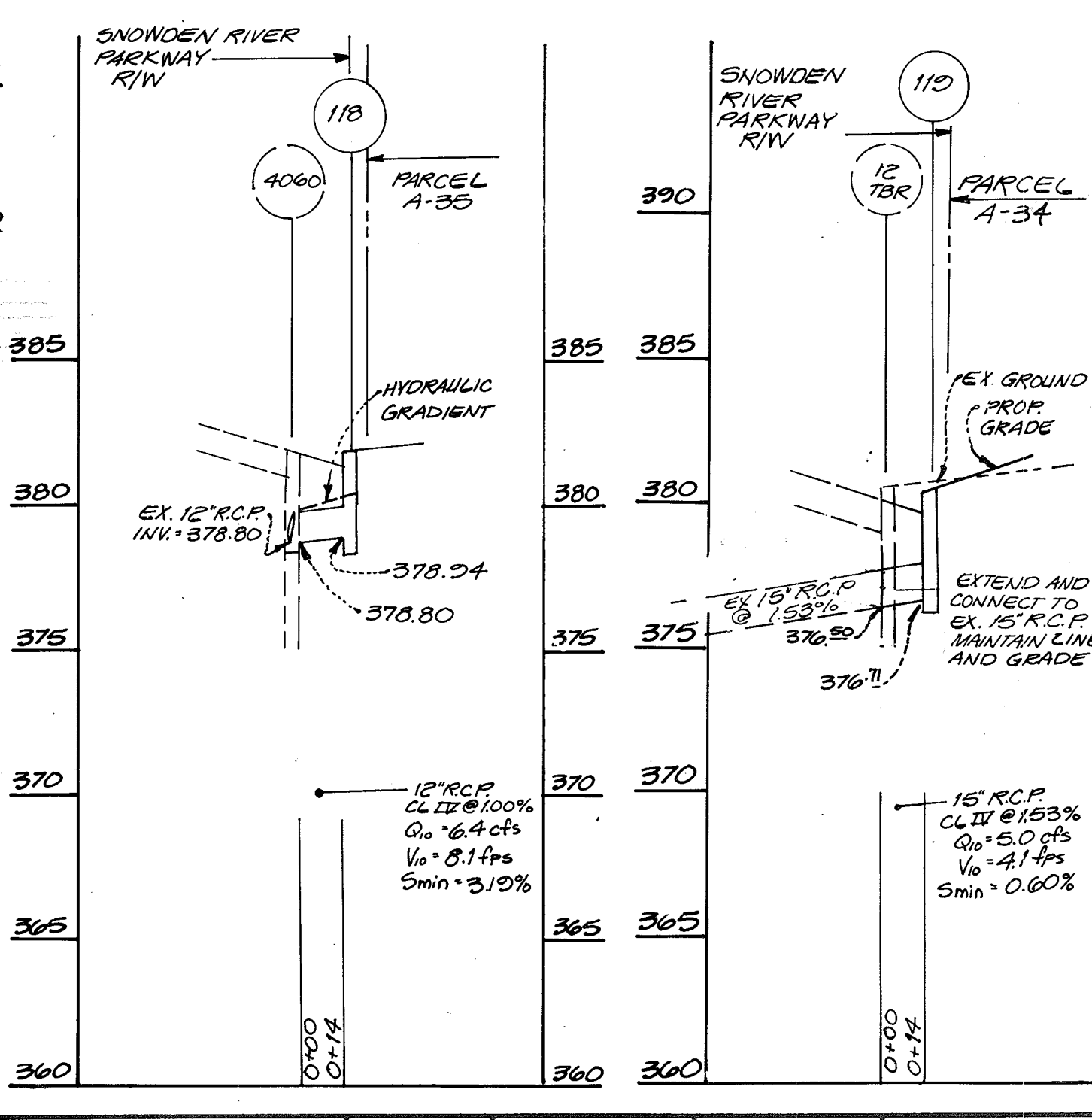
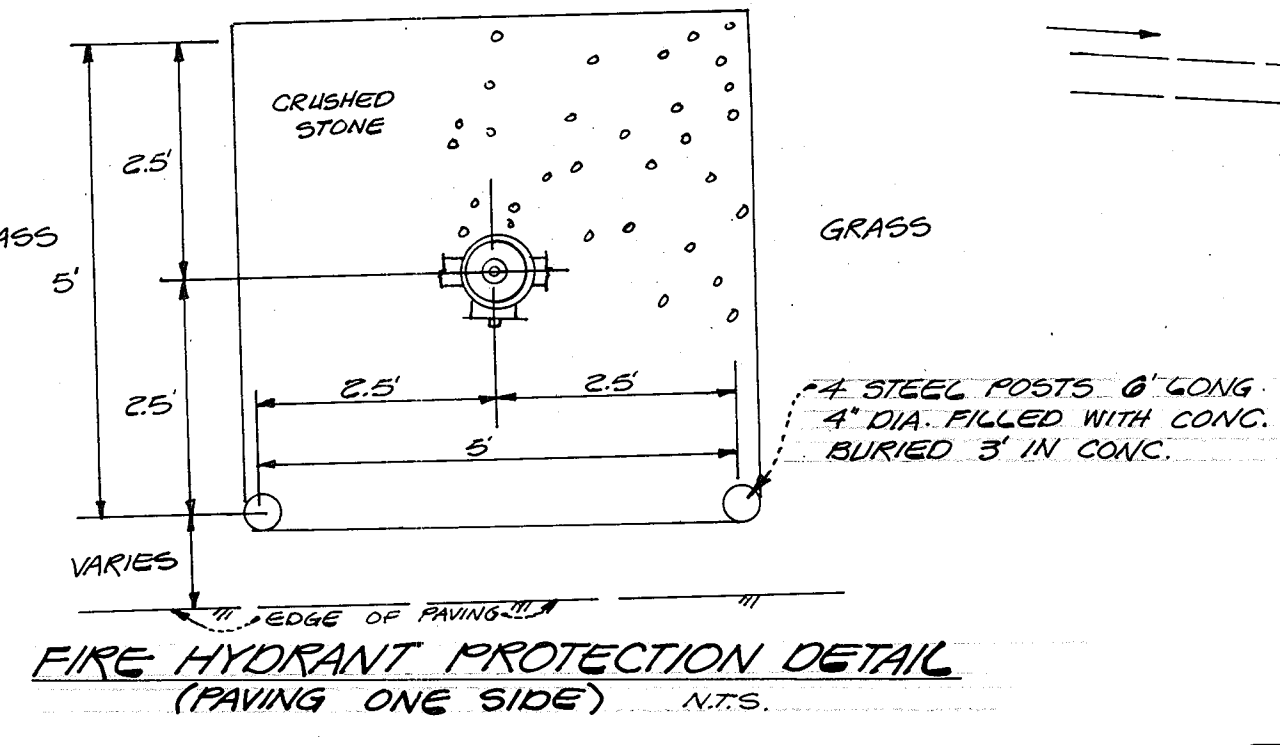
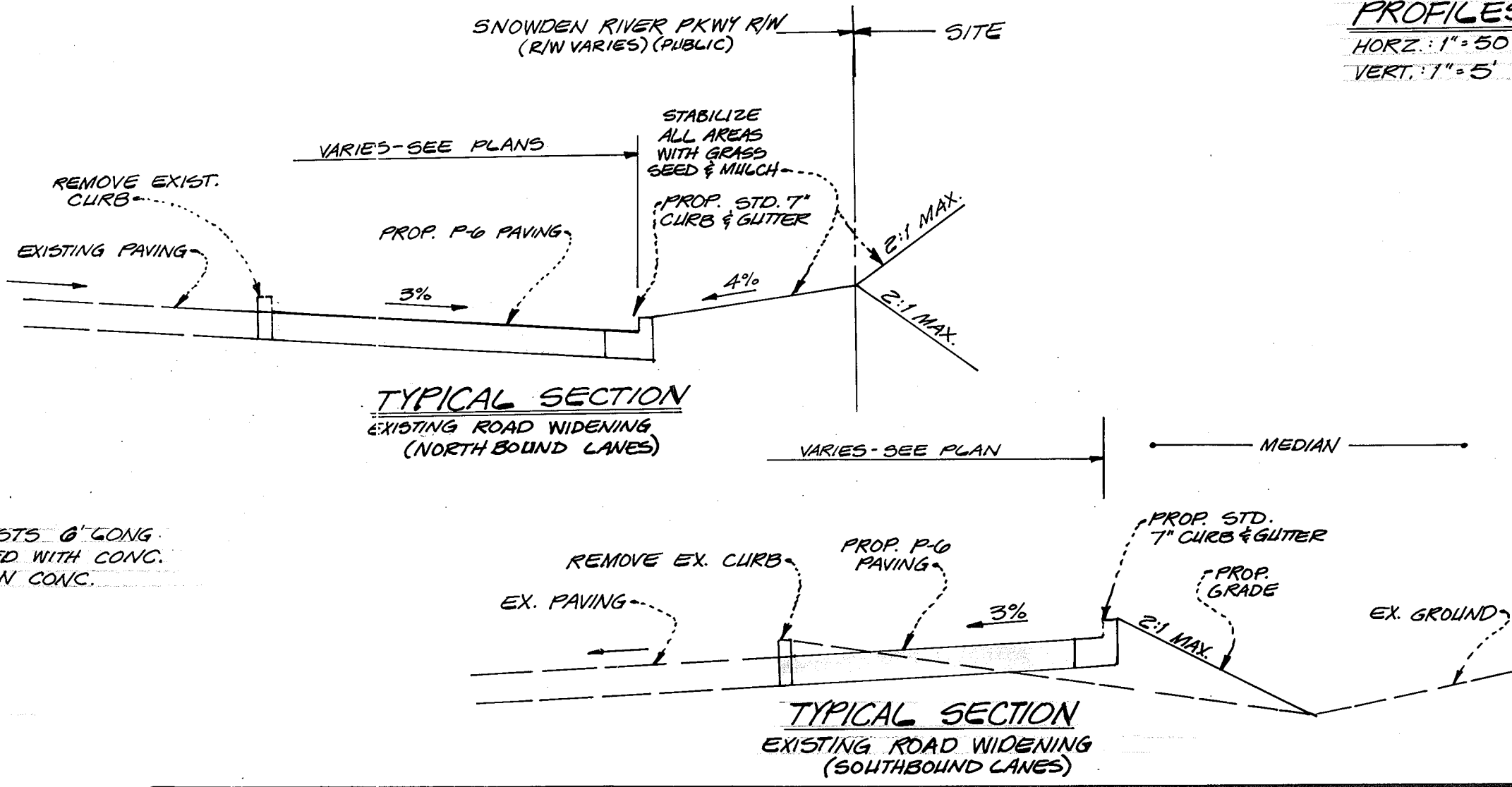
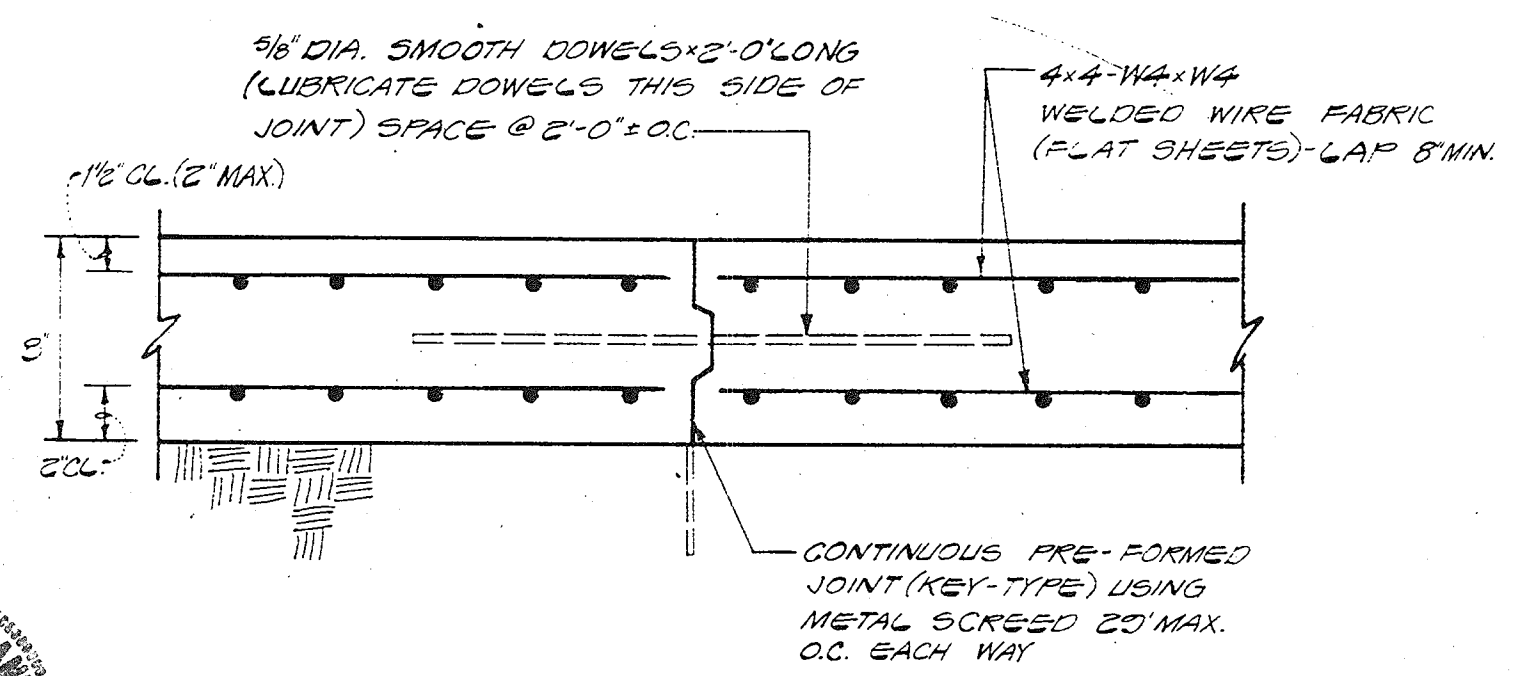
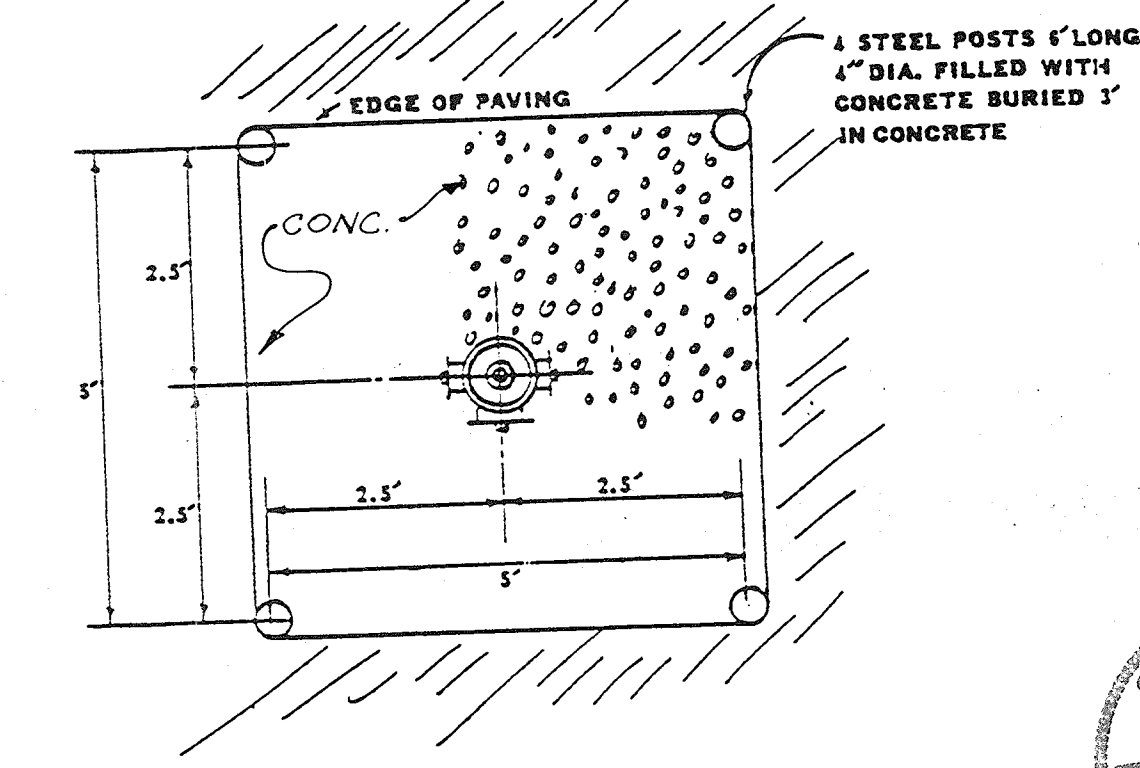
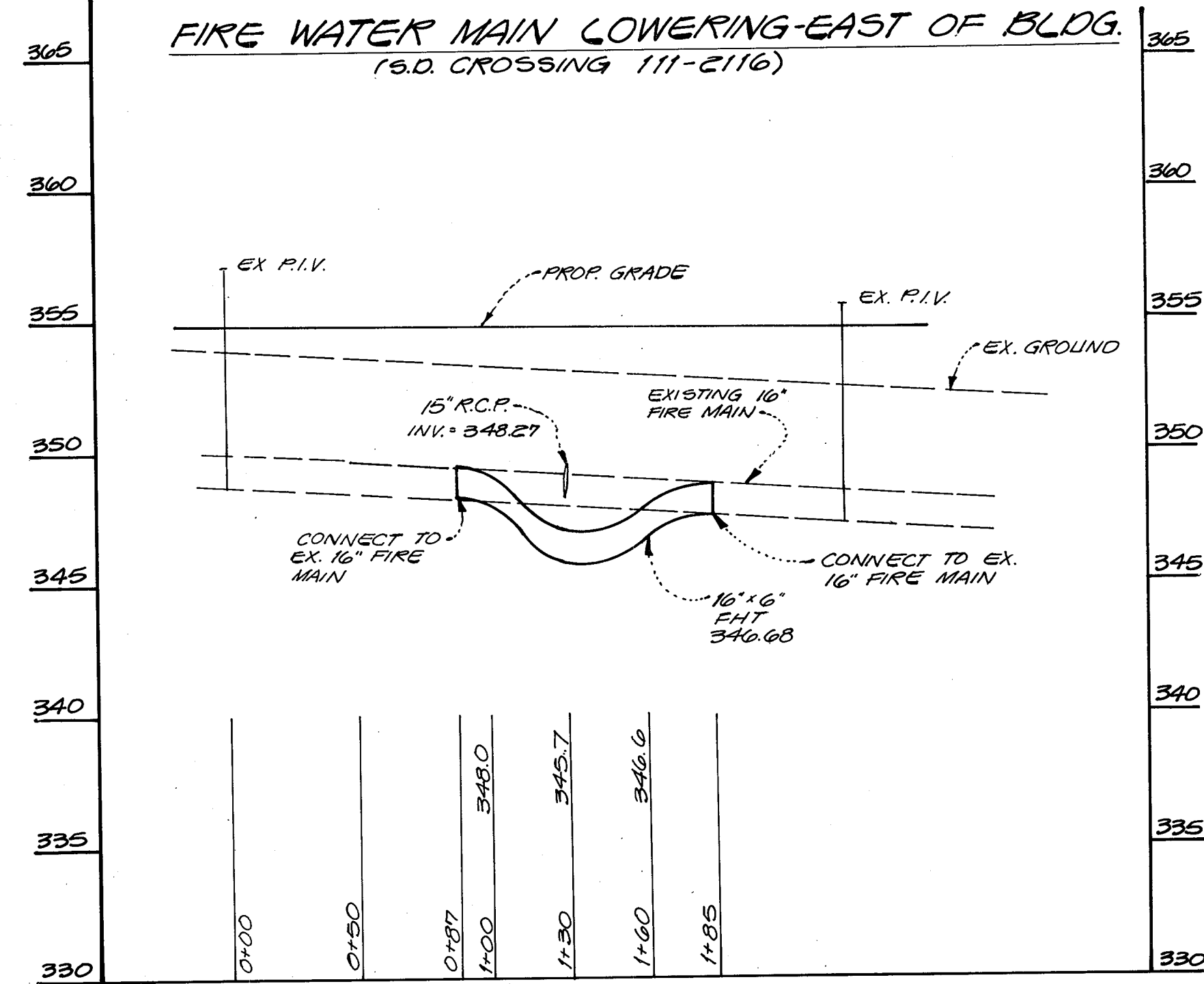
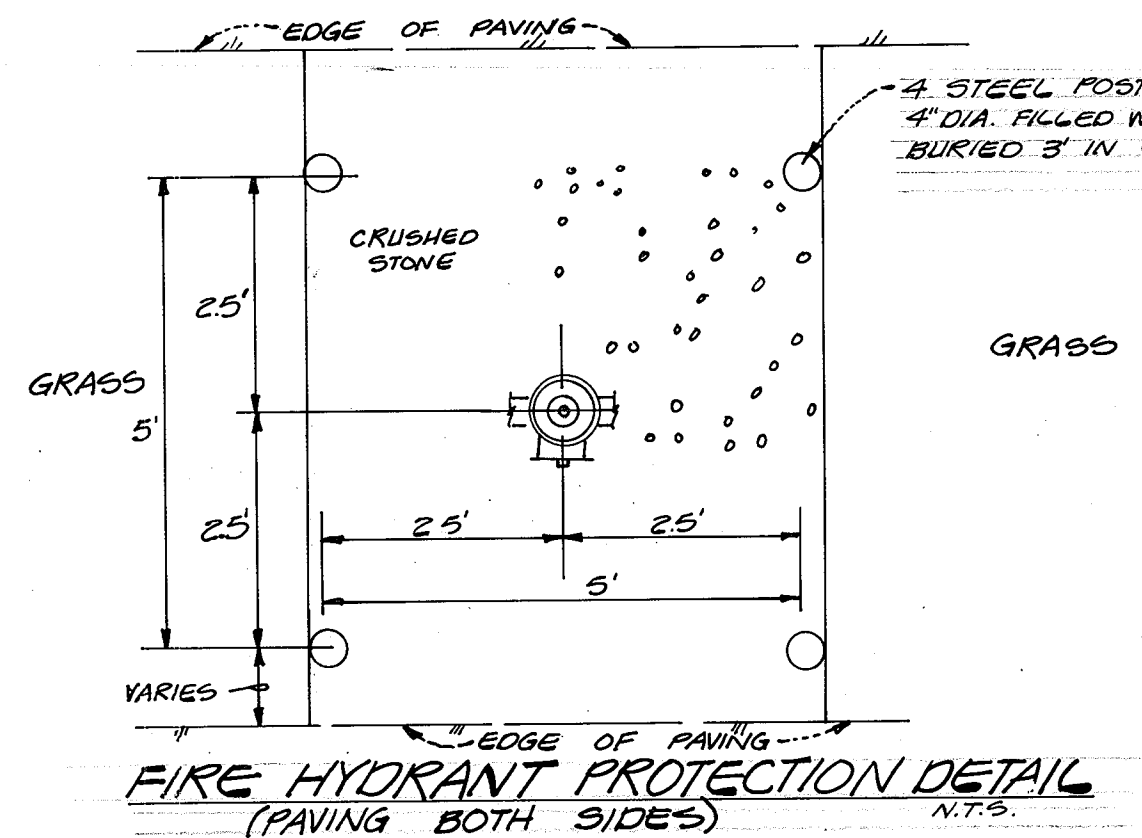
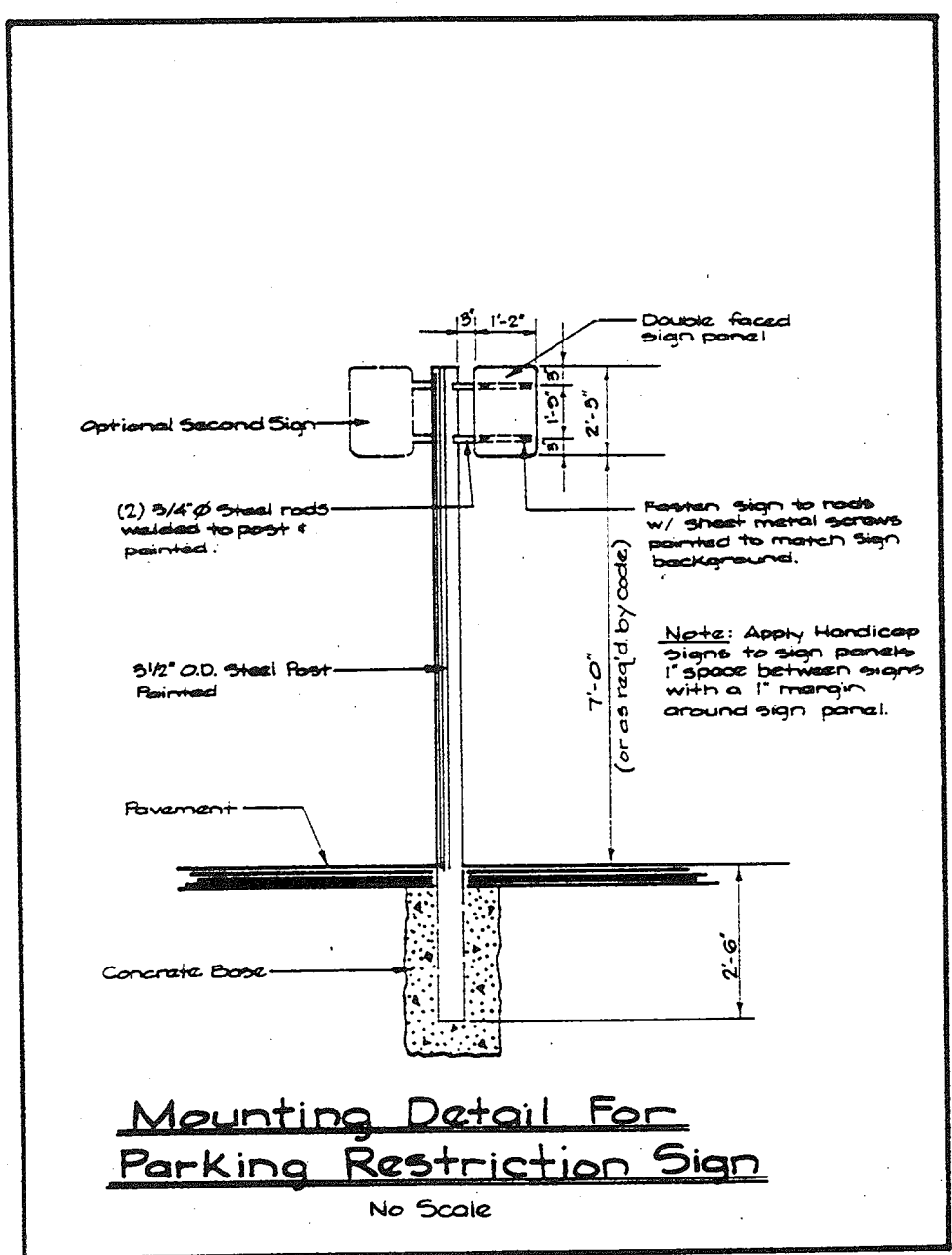
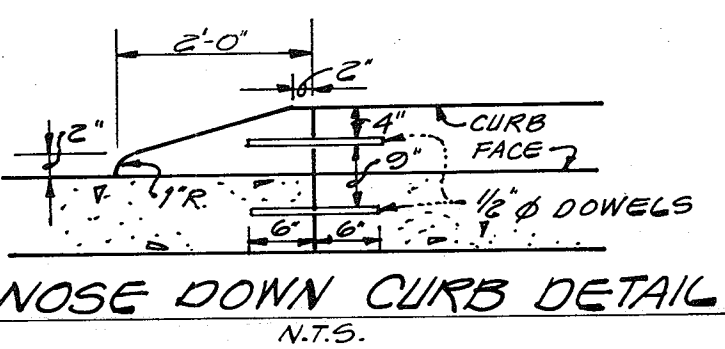
G.L.W. FILE NO.: 21-056
 SHEET: 12 OF 13



*REPLACE EX. GRATE WITH A MANHOLE FRAME AND COVER.



NOTE: OTHER EQUIVALENT PAVING SECTIONS MAY BE APPROVED WHERE APPROVED BY A PROFESSIONAL SOILS ENGINEER.



APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.
 J. J. [Signature] 11-22-92
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 [Signature] 11/30/92
 [Signature] 11/20/92
 CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS & PUBLIC ROADS, HOWARD COUNTY DEPT. OF PUBLIC WORKS
 [Signature] 11/19/92
 DIRECTOR DATE

[Signature] 11-19-92
 CHIEF, BUREAU OF ENGINEERING & M.A.K. DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD. 20886
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DATE	REVISION	BY	APPR.
3-20-93	REV PROFILES	GLW	
11-16-92	GENERAL REVISIONS	MUTIK	

PREPARED FOR:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PKWY
 COLUMBIA, MD. 21044
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SCHEDULES & DETAILS
GATEWAY COMMERCE CENTER
 BUILDING 20
 PARCEL A-33, A-34 & A-35
 HOWARD COUNTY, MARYLAND
 6TH ELECTION DISTRICT

DES.	SCALE	ZONING	G.L.W. FILE NO.
MJT		M-1 & B-2	91-056
DRN.	DATE	TAX MAP No.	SHEET
HK	NOV. 10, 1992	42	13 OF 13
CHK.			