

**GENERAL NOTES**

EXISTING ZONING: NEW TOWN - EMP. CENTERED INDUSTRIAL  
 FINAL DEVELOPMENT PLAN: PHASE IIT-A, P.B.20, F.204  
 LAND USE: OFFICE / WAREHOUSE  
 TOTAL AREA OF SUBMISSION: 3.685 ACRES  
 (PARCEL 'X' - 3.087 AC.)  
 (PARCEL 'W-3' - 0.598 AC.)  
 TAX MAP NUMBER: 3G

**PARKING BREAKDOWN:**

OFFICE FLOOR AREA	24,640 S.F.
OFFICE PARKING REQUIRED:	236 SPACES
(2 SPACES PER 1000 S.F.)	56 SPACES
OFFICE PARKING PROVIDED	257 SPACES
NO. OF EMPLOYEES IN WAREHOUSE AREA	2412 EMPLOYEES
WAREHOUSE FLOOR AREA	24,640 S.F.
WAREHOUSE PARKING REQUIRED:	24 SPACES
(1 SPACE PER EVERY 2 EMPLOYEES)	66 SPACES
WAREHOUSE PARKING PROVIDED	83 SPACES

ANY DAMAGE TO THE COUNTY RIGHT-OF-WAY OR PAVING WILL BE CORRECTED AT THE DEVELOPER'S EXPENSE.

ALL PARKING FOR PHYSICALLY HANDICAPPED WILL BE MARKED IN ACCORDANCE WITH THE MARYLAND BUILDING CODE FOR THE HANDICAPPED AND AGED.

INSTALLATION OF ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1971 EDITION.

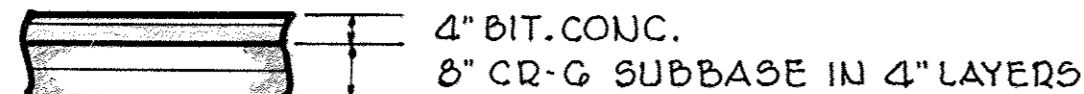
TOTAL BUILDING AREA = 49,280 S.F. OR 31% OF SITE AREA  
 TOTAL PARKING REQUIRED = 704 SPACES  
 TOTAL PARKING PROVIDED = 340 SPACES

THE PLANNING DIRECTOR HAS DETERMINED THAT A PLANNING BOARD MEETING IS NOT REQUIRED FOR THE ADDITIONAL 42 PARKING SPACES BECAUSE THE SPACES WILL BE PLACED WITHIN AN EXISTING IMPREVIOUS AREA.

HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 LIBED 463, FOLIO 156

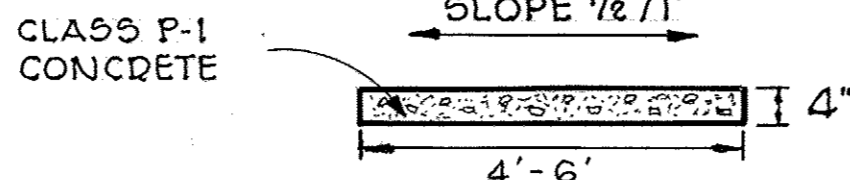
IT HAS BEEN DETERMINED THAT LANDSCAPING ISLANDS WILL NOT BE REQUIRED FOR THE ADDITIONAL PARKING AND THAT THE PROPOSED PARKING MAY EXCEED MORE THAN 24 SPACES IN A SINGLE ROW.

REFER TO SHEET 5 OF 5 FOR UPDATED PARKING LAYOUT, SECURITY FENCING, DUMPSTER LOCATIONS & OTHER SITE IMPROVEMENTS.



BIT CONC. TO BE APPLIED IN TWO COURSES CONSISTING OF A 2 1/2" BIT. BASE WITH A 1 1/2" BIT. SURFACE APPLIED AFTER TACK COATING BIT. BASE.

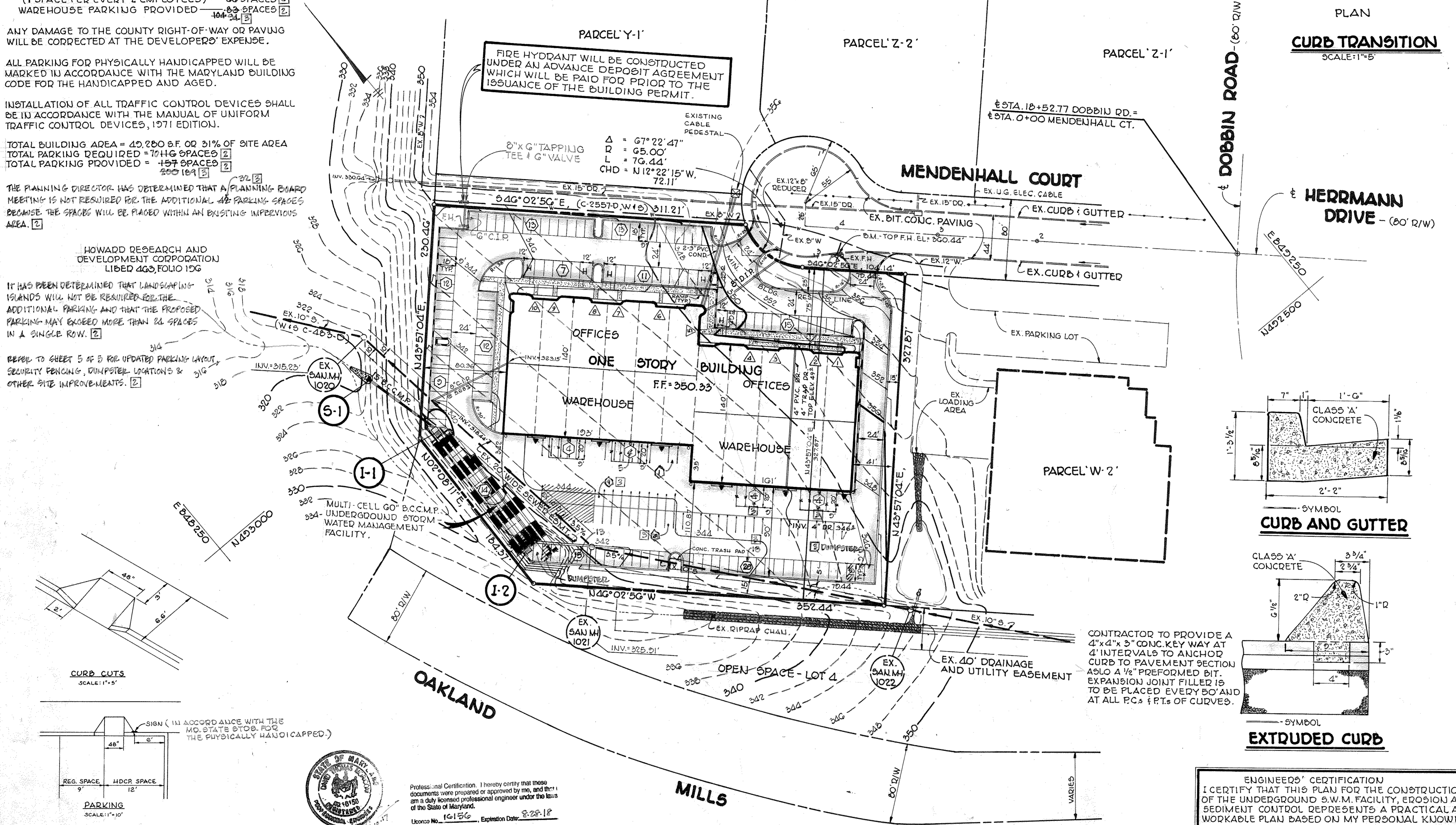
ALL WORK IS TO BE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS:  
 CLEARING AND GRADING REFER TO ARTICLE C-1  
 SUBGRADE C-2  
 BASE COURSE C-31 OR C-33  
 SURFACE COURSE C-31



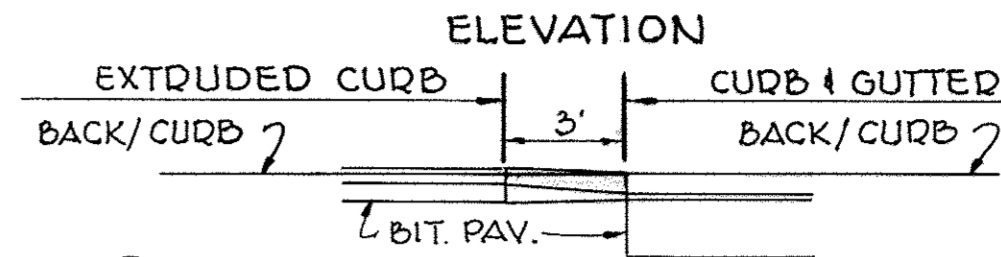
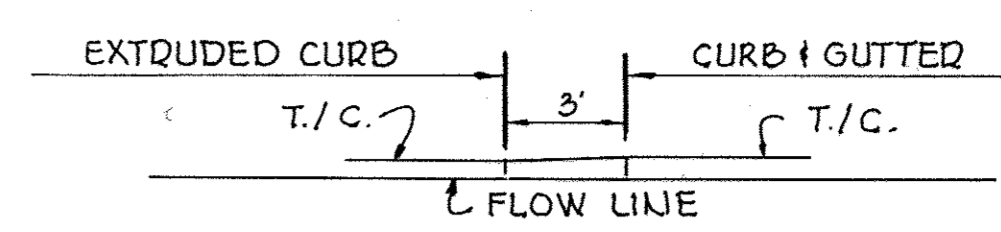
**SIDEWALK**

SIELING INDUSTRIAL CENTER SECTION I AREA I

**PAVING SECTION**

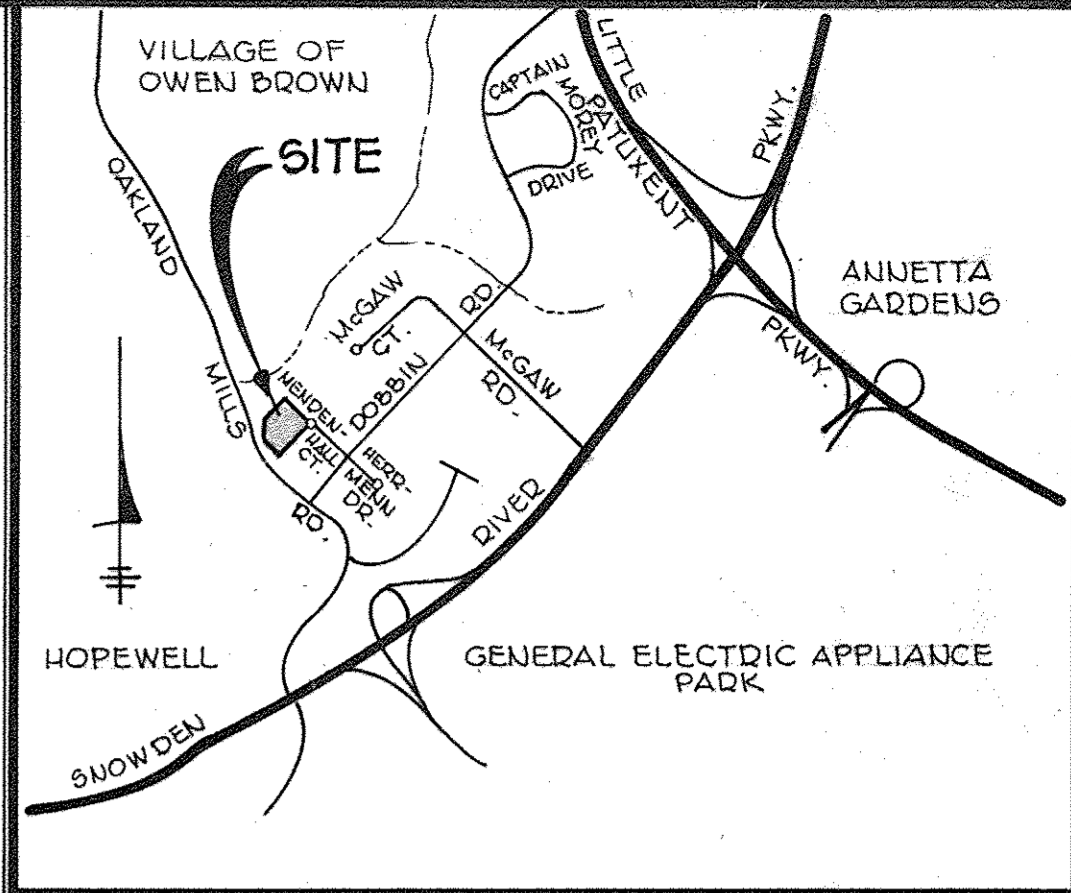


STRUCTURE SCHEDULE					
NO.	TYPE	INV. IN	INV. OUT	TOPEL.	REMARKS
I-2	DBL. 9" COMB. INLET	-	328.20'	341.00'	H.C. DWG. - D-29
I-1	MOD. DBL. 9" COMB. INLET	327.50'	327.20'	329.50'	SEE DETAIL SH. T.
5-1	METAL END SECTION	319.48'	319.29'	320.73'	S.H.A. STD. NO. 370.01



**CURB TRANSITION**

SCALE: 1" = 5'



**VICINITY MAP**

SCALE: 1" = 2000'

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DIRECTOR: *John W. Williams* DATE: 4-10-81  
 CHIEF, DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPT. OF PUBLIC WORKS.  
 DIRECTOR: *William F. Williams* DATE: 4-8-81  
 CHIEF, BUREAU OF ENGINEERING

VIEWED FOR THE HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
 U.S. SOIL CONSERVATION SERVICE DATE: 4-2-81

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL CONSERVATION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 DATE: 4-2-81

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.  
 OFFICER, COUNTY HEALTH DEPT. DATE: 4-10-81

DEVELOPER'S CERTIFICATION  
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

*Daryl Butcher*  
 DARYL BUTCHER DATE

**APPROVED**

PLANNING BOARD OF HOWARD COUNTY  
 DATE: 3-11-81

REVISIONS		
NO.	DATE	DESCRIPTION
1	3/4/81	PER CO. COMMENTS
2	4/10/81	UPDATED GENERAL NOTES
3	1/2/81	UPDATED GENERAL NOTES & PARKING

**SPELLMAN, LARSON & ASSOCIATES, INC.**

CIVIL ENGINEERS AND LAND SURVEYORS  
 SUITE 110, JEFFERSON BLDG., TOWSON, MD., 21204  
 PHONE: 823-3535

OWNER: COLUMBIA IND. DEV. CORP. THE ROUSE BLDG. COLUMBIA CITY, MD., 21044  
 DEVELOPER: BUTCHER/BUTCHER PARTNERSHIP 200 A MONROE STREET ROCKVILLE, MD., 20850

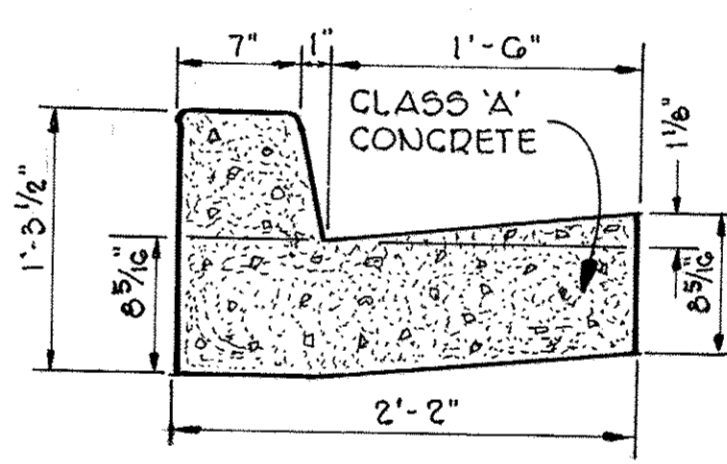
SIELING INDUSTRIAL CENTER SECTION I AREA I  
 PARCEL 'X'-1 - PLAT NO. 4842

**SITE DEVELOPMENT PLAN**

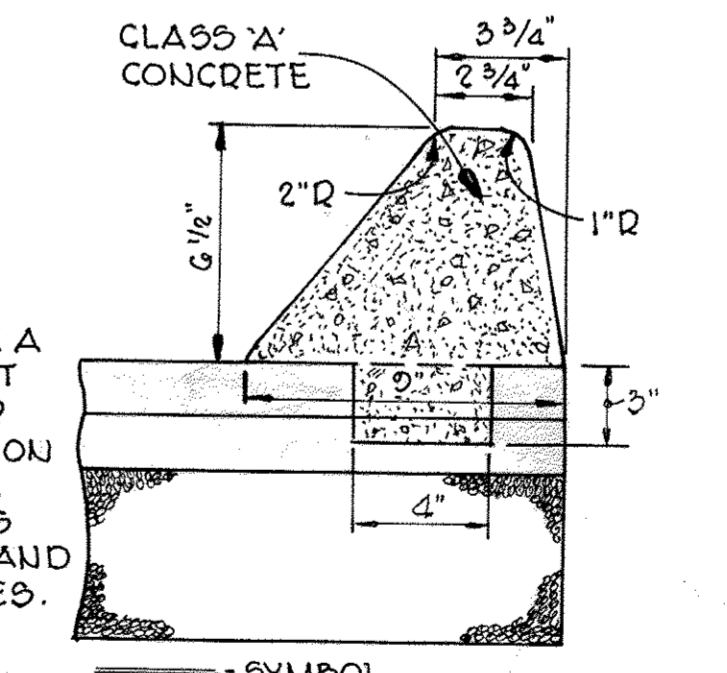
GTH ELECTION DISTRICT HOWARD CO., MD.  
 SCALE: 1" = 50'  
 DATE: 1-26-81 DES. BY: A.W.R. SHT. 1 OF 5  
 DRN. BY: A.W.R.

ENGINEER'S CERTIFICATION  
 I CERTIFY THAT THIS PLAN FOR THE CONSTRUCTION OF THE UNDERGROUND S.W.M. FACILITY, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD S.C.D.

*Jouhasiecki* PE#3321  
 ENGINEER DATE: March 5, 1981

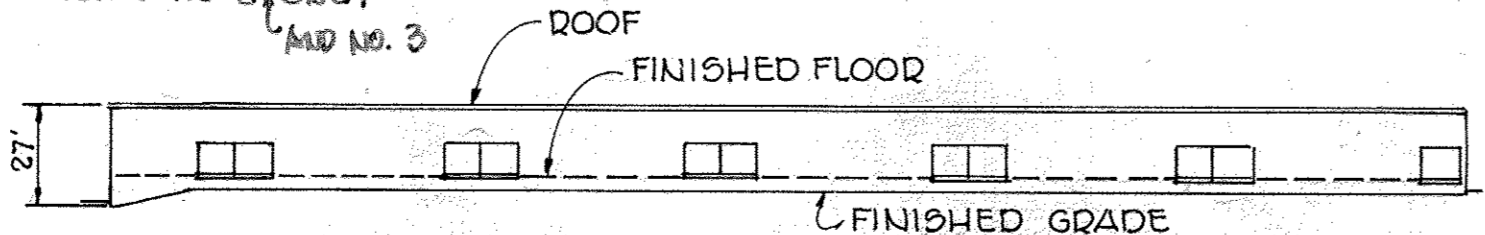


**CURB AND GUTTER**

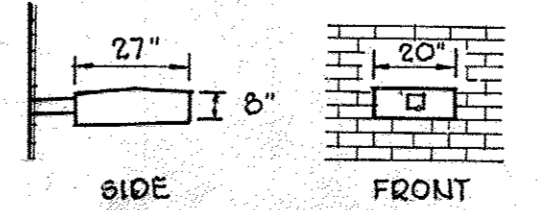


**EXTRUDED CURB**

CONTRACTOR TO PROVIDE A 4"x4"x3" CONC. KEY WAY AT 4' INTERVALS TO ANCHOR CURB TO PAVEMENT SECTION ASLO A 1/2" PREFORMED BIT. EXPANSION JOINT FILLER IS TO BE PLACED EVERY 50' AND AT ALL P.C.'S & P.T.'S OF CURVES.



**SOUTH ELEVATION**



**LIGHT DETAIL**

**HANDICAPPED DETAILS**

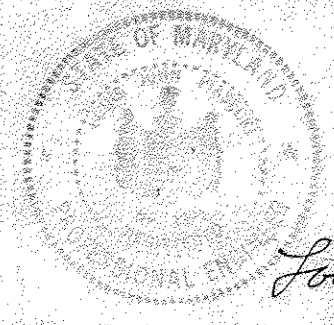
REG. SPACE: 9' x 12'  
 HDCR SPACE: 48" x 60"

*Jouhasiecki* PE#8321 March 5, 1981  
 ENGINEER DATE



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
 License No. 16156 Expiration Date: 8-28-18

THIS PERTAINS TO REDLINE REVISION NO. 2, ONLY



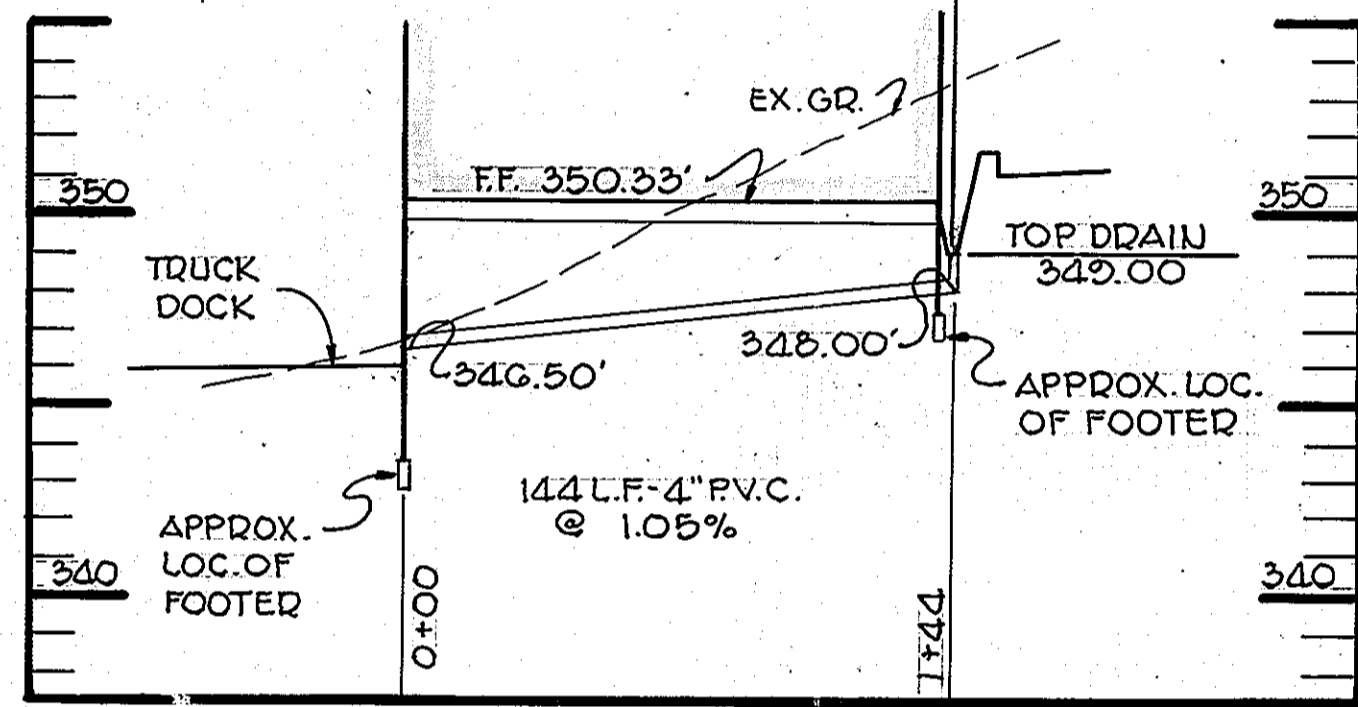
**GENERAL NOTES**

1. THE APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES, AND MAINTAIN UNINTERRUPTED SERVICE.
2. THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE WORKING DAYS BEFORE STARTING WORK SHOWN HEREON.  
BELL TELEPHONE SYSTEM 393-3649  
LONG DISTANCE CABLE DIVISION 393-5553 OR 54  
BALTIMORE GAS AND ELECTRIC CO. 599-8000 EXT. 601
3. THE CONTRACTOR IS TO TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
4. ALL CORRUGATED METAL PIPE SECTIONS WILL BE JOINED WITH A SINGLE OR TWO PIECE CORRUGATED BAND WITH A WATER TIGHT NEOPRENE GASKET. DIMPLE BAND CONNECTORS WILL NOT BE USED.
5. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.

**4" TRAP DRAIN**

HYDROLOGY DISCHARGE  
 $D.A. = .0514 AC.$   
 $C = .60$  (60% PAVED)  
 $C \times D.A. = .034052$   
 $T.C. = 5 MIN.$   
 $1.488 = 2.1$   
 $Q_{100} = 3.55 C.F.S.$

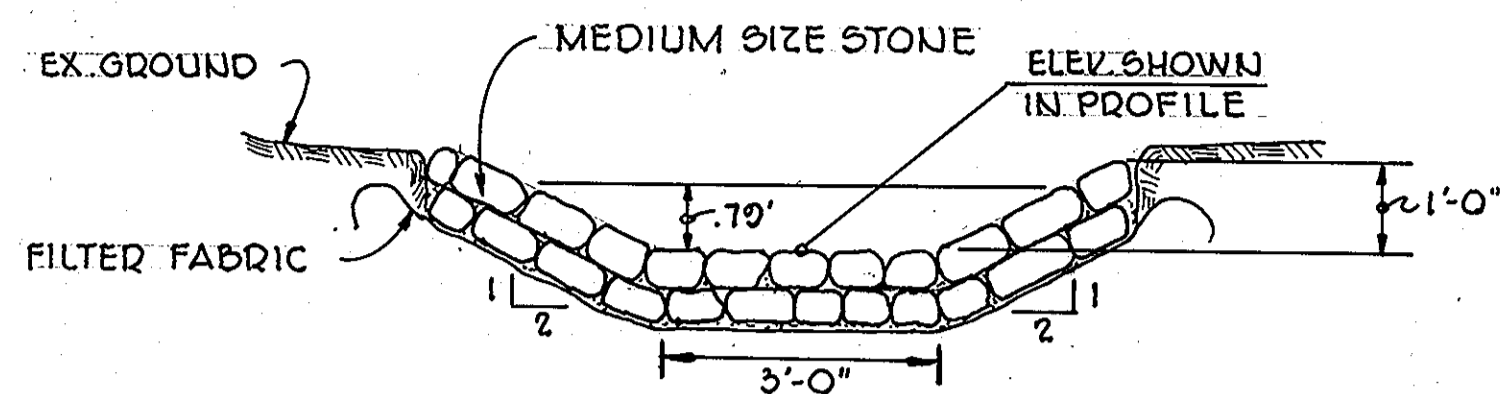
$Q = CA \sqrt{2gh}$   
 $= .6(0.0726) \sqrt{64.4(.9)}$   
 $= .052556 (7.61314)$   
 $= .3986 C.F.S. = 3.55 C.F.S. - REQ.$



**TRAP DRAIN PROFILE** — SCALE: 1" = 5' VERT. 1" = 50' HOR.

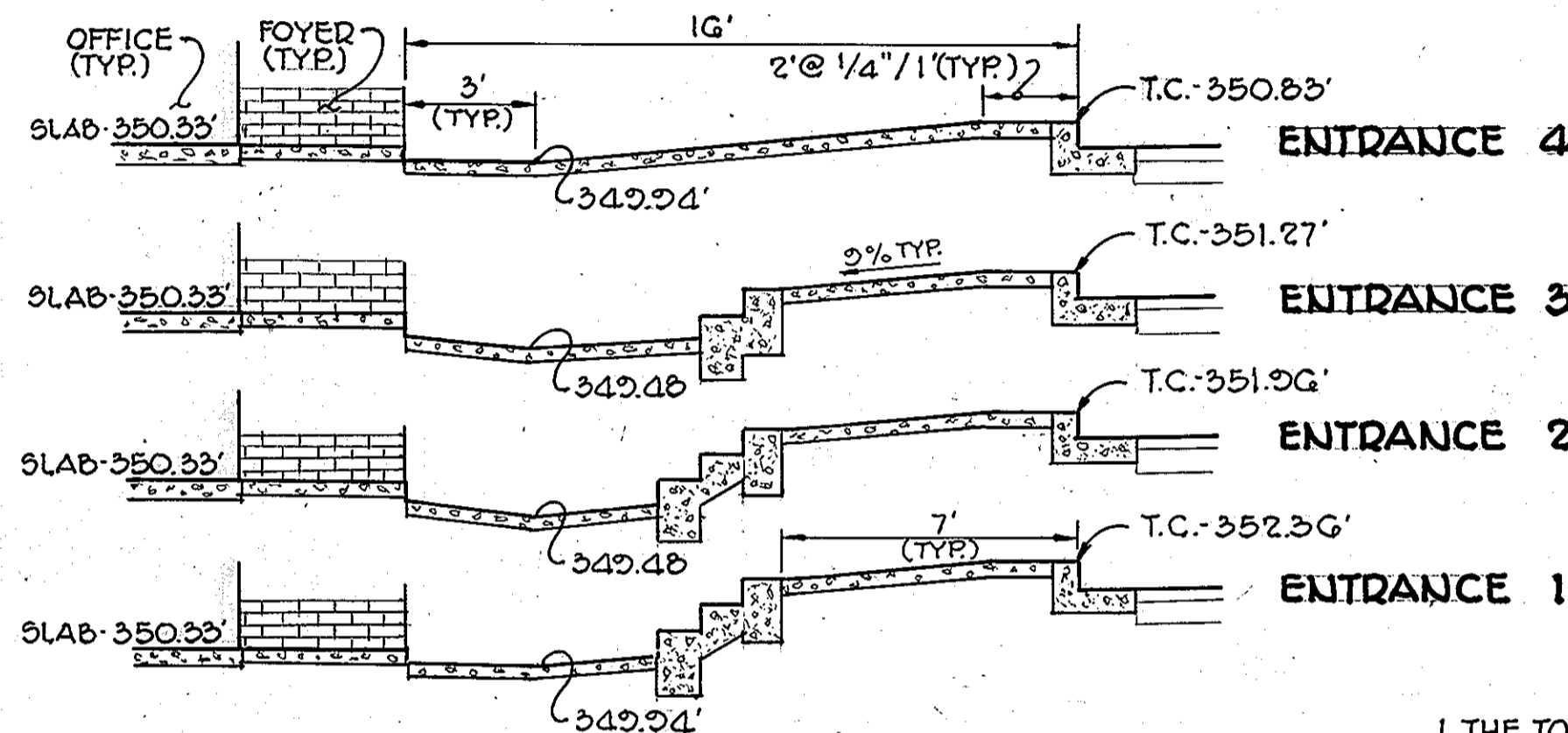
S.W.M. SUMMARY TABLE				
STORM FREQUENCY	INFLOW C.F.S.	OUTFLOW C.F.S.	STORAGE VOLUME	D.H.W. ELEV.
2 YR.	13.6	6.96	.214 AC.FT.	331.20'
10 YR.	29.5	11.5	.268 AC.FT.	333.60'

TOTAL DRAINAGE AREA TO FACILITY = 3.5 ACRES

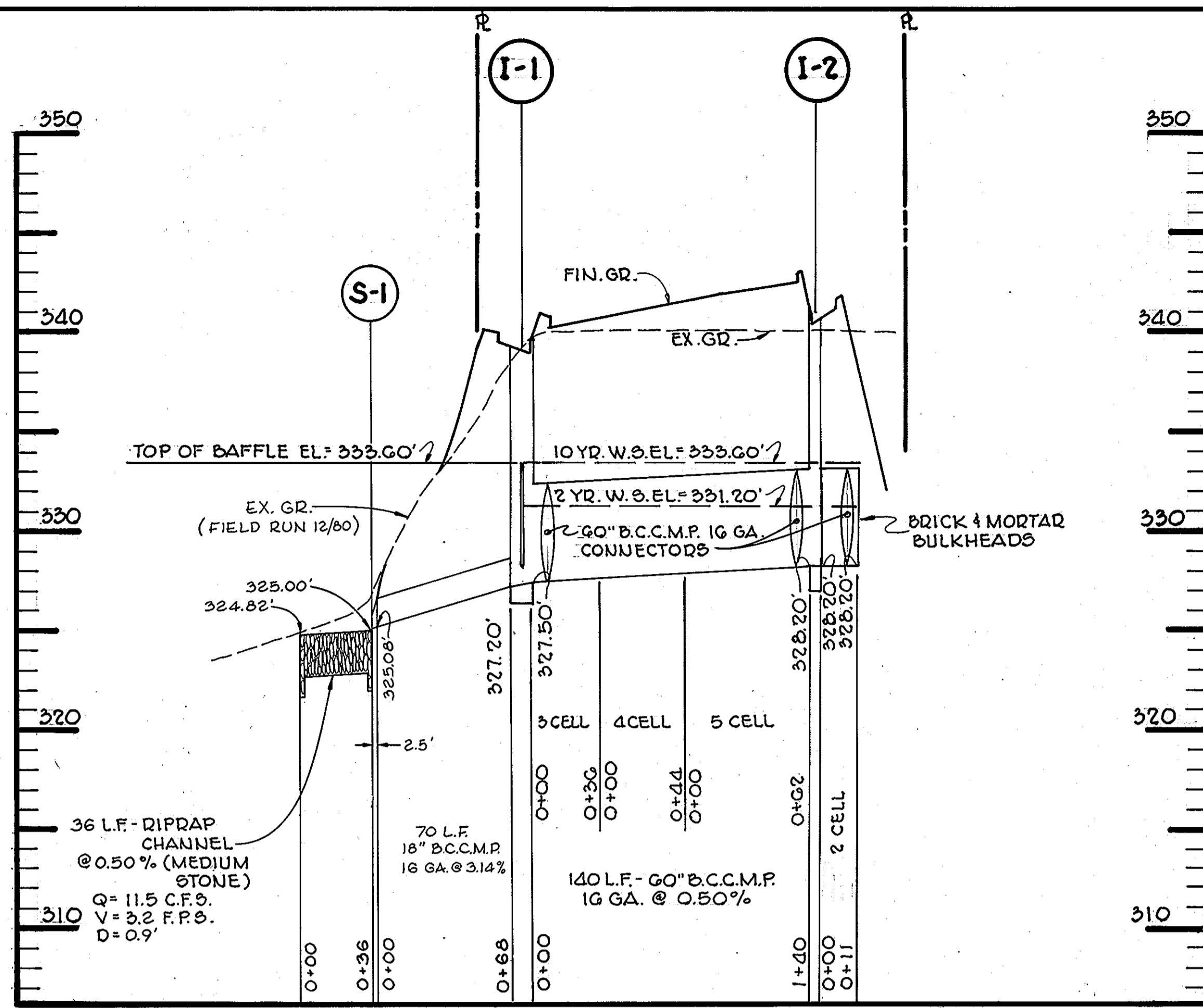


CONTRACTOR IS TO INSTALL A 3' DEEP TOWALL AT THE BEGINNING AND END OF RIPRAP CHANNEL.

**RIPRAP CHANNEL**  
NO SCALE



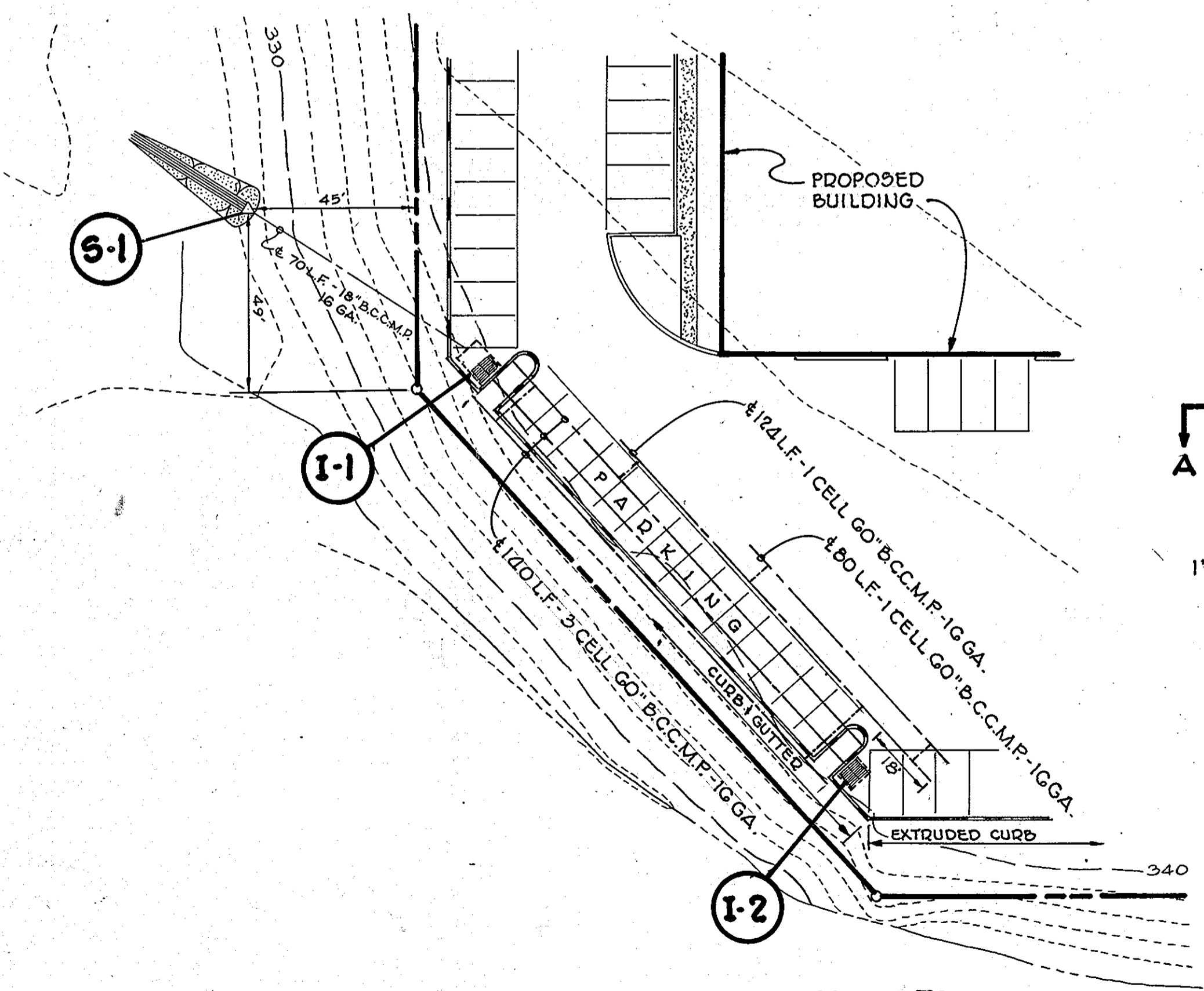
**ENTRANCE ELEVATIONS**  
SCALE: 1" = 4'



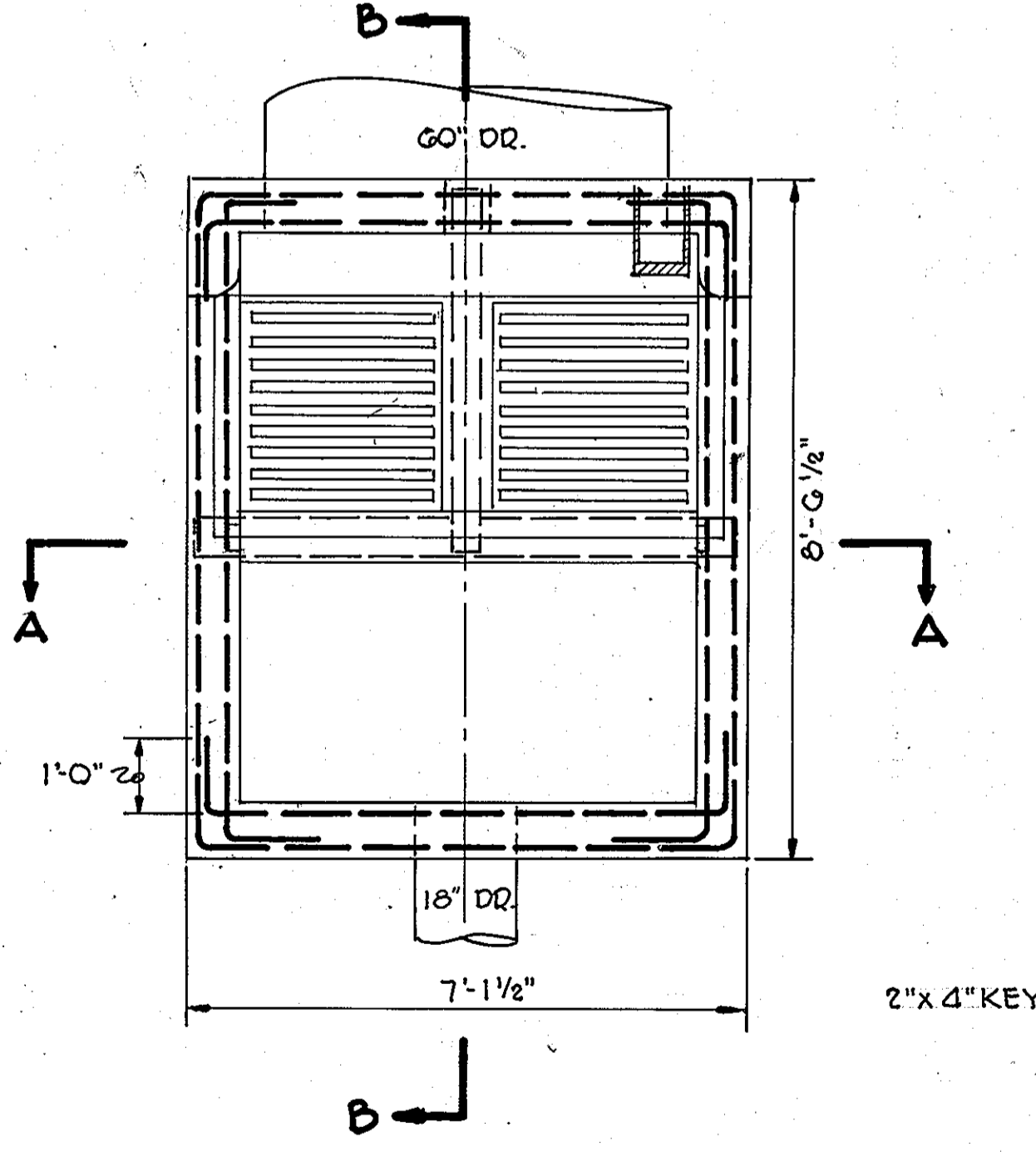
**STORM DRAIN PROFILES** — SCALE: 1" = 5' VERT. 1" = 50' HOR.

**INLET NOTES**

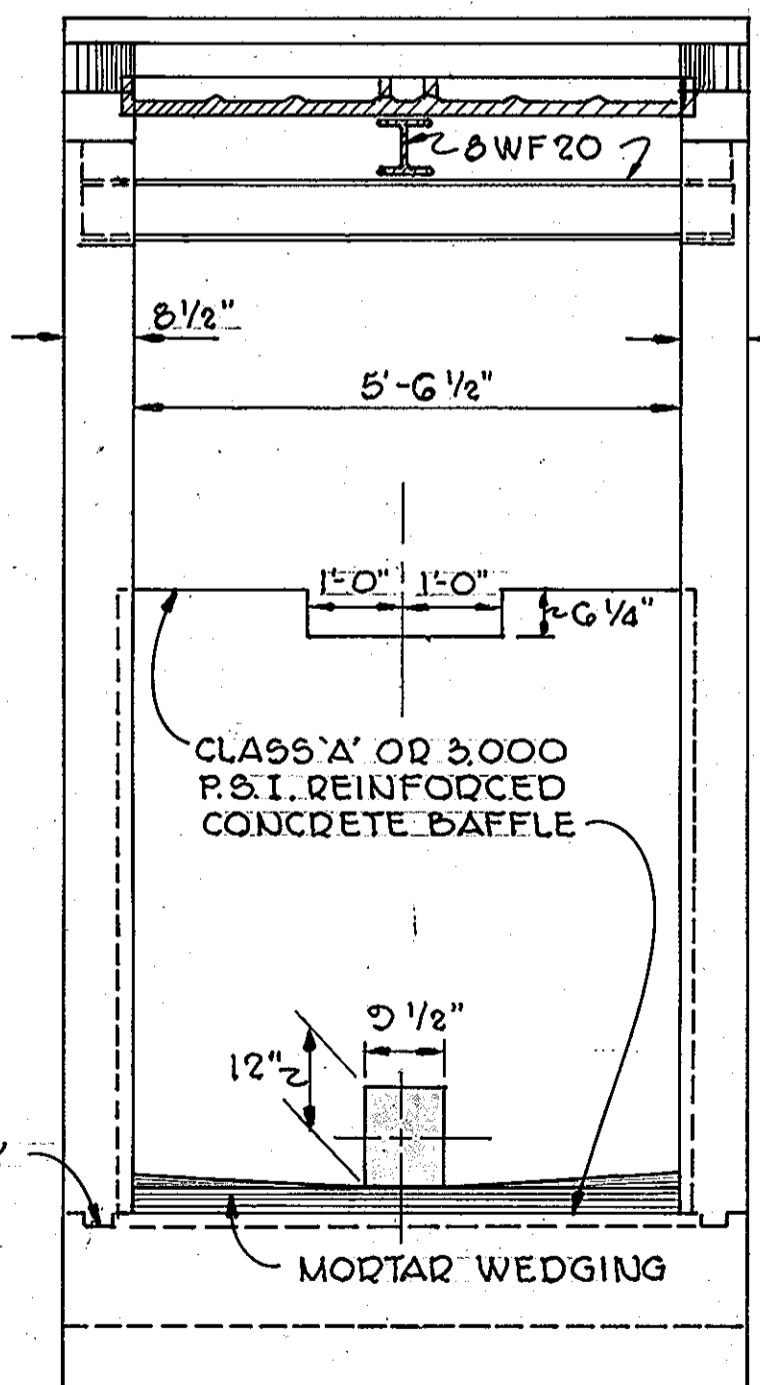
1. THE TOP 4 INCHES OF INLET MAY BE BRICK OR MASONRY
2. ALL STRUCTURAL STEEL TO BE #4 BARS, A-36 REINFORCED G15-50
3. ALL CONCRETE TO BE CLASS 'A' OR 3000 P.S.I. CONCRETE.
4. ALL HORIZONTAL BARS TO BE WRAPPED AT CORNERS WITH A ONE FOOT OVERLAP.
5. FOR ADDITIONAL INFORMATION NOT INCLUDED HEREON SEE HO. CO. DWGS. D-99 & D-101.



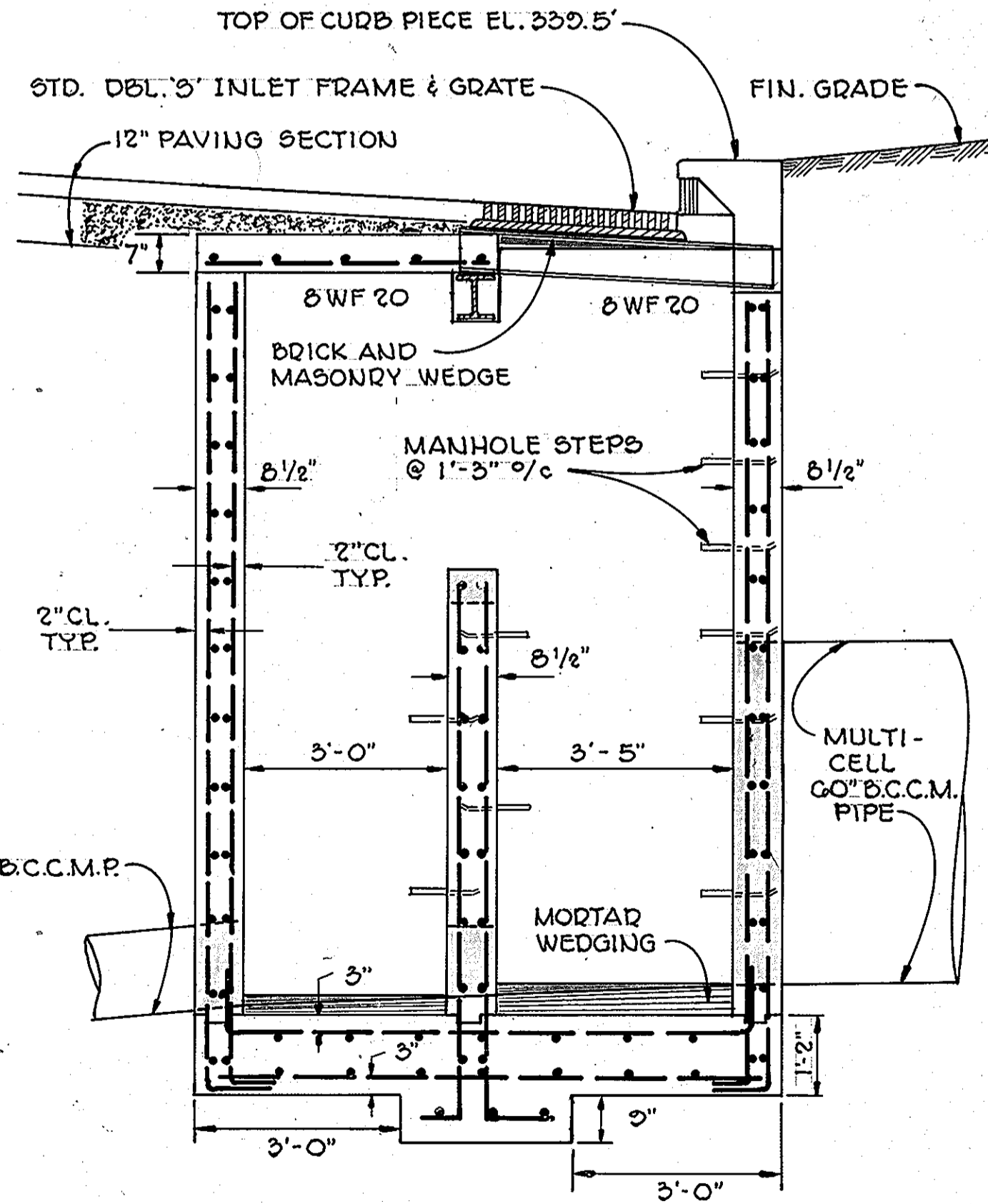
**PLAN OF U.G. - S.W.M. FACILITY**  
SCALE: 1" = 30'



**PLAN**



**SECTION A-A**



**SECTION B-B**

**DETAIL OF MODIFIED DOUBLE 9' COMBINATION INLET**  
SCALE: 1" = 2'

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 3-11-81

ENGINEER'S CERTIFICATION  
 I CERTIFY THAT THIS PLAN FOR THE CONSTRUCTION OF THE UNDERGROUND S.W.M. FACILITY EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD S.C.D.

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 No. 392  
 REGISTERED  
 E. #3321  
 March 5, 1981  
 ENGINEER DATE

DEVELOPER'S CERTIFICATION  
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, 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.

DARYL BUTCHER 3-18-81  
 DATE  
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWEDAGE SYSTEMS, HOWARD CO. HEALTH DEPT.

JAMES M. BAYLOR, JR. P.E. 4-10-81  
 OFFICER, COUNTY HEALTH DEPT. DATE

THOMAS L. HARRIS 4-10-81  
 DIRECTOR DATE  
 CHIEF DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWAGE AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPT. OF PUBLIC WORKS.

W. F. NEMMUS 4-8-81  
 DIRECTOR DATE  
 CHIEF, BUREAU OF ENGINEERING 4-18-81  
 REVIEWED FOR THE HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

JAMES F. ROBERTS 4-2-81  
 U.S. SOIL CONSERVATION SERVICE DATE

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

WES TRAPP 4-2-81  
 HOWARD S.C.D. DATE

REVISIONS		
NO.	DATE	DESCRIPTION
1	3/4/81	PER CO. COMMENTS
2	3/16/81	REV. OUTFALL DUE TO FIELD CONDITIONS

**SPELLMAN, LARSON & ASSOCIATES, INC.**  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 SUITE 110, JEFFERSON BLDG., TOWSON, MD., 21204  
 PHONE: 823-3535

OWNER / DEVELOPER  
 COLUMBIA IND. DEV. CORP. BIRCHER/BUTCHER PRTN.  
 THE ROUSE BLDG. 200 A MONROE ST.  
 COLUMBIA CITY, MD., 21044 ROCKVILLE, MD., 20850

SIELING INDUSTRIAL CENTER  
 SECTION I AREA I  
 PARCEL 'X'-1 - PLAT NO. 4642

**SITE DETAILS**

GTH ELEC. DISTRICT HOWARD CO., MD.  
 SCALE: AS SHOWN DES. BY: A.W.P. SHT. 2 OF 5  
 DATE: 1-22-81 DRN. BY: A.W.P.

**GENERAL NOTES**

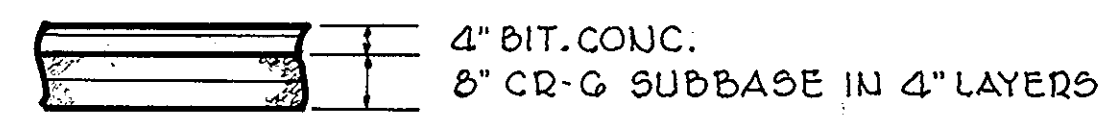
EXISTING ZONING: NEW TOWN EMP. CENTED INDUSTRIAL  
 FINAL DEVELOPMENT PLAN: PHASE 117-A, P.D. 20, F. 204  
 LAND USE: OFFICE / WAREHOUSE  
 TOTAL AREA OF SUBMISSION: 3.096 ACRES  
 (PARCEL 'X' - 3.096 AC.)  
 (PARCEL 'W-2' - 0.598 AC.)  
 TAX MAP NUMBER: 42

**PARKING BREAKDOWN:**  
 OFFICE FLOOR AREA: 24,640 S.F.  
 OFFICE PARKING REQUIRED: 49 SPACES  
 (2 SPACES PER 1000 S.F.)  
 OFFICE PARKING PROVIDED: 81 SPACES  
 NO. OF EMPLOYEES IN WAREHOUSE AREA: 132 EMPLOYEES  
 WAREHOUSE FLOOR AREA: 24,640 S.F.  
 WAREHOUSE PARKING REQUIRED: 66 SPACES  
 (1 SPACE PER EVERY 2 EMPLOYEES)  
 WAREHOUSE PARKING PROVIDED: 86 SPACES

ANY DAMAGE TO THE COUNTY RIGHT-OF-WAY OR PAVING WILL BE CORRECTED AT THE DEVELOPER'S EXPENSE.

ALL PARKING FOR PHYSICALLY HANDICAPPED WILL BE MARKED IN ACCORDANCE WITH THE MARYLAND BUILDING CODE FOR THE HANDICAPPED AND AGED.

INSTALLATION OF ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1971 EDITION.

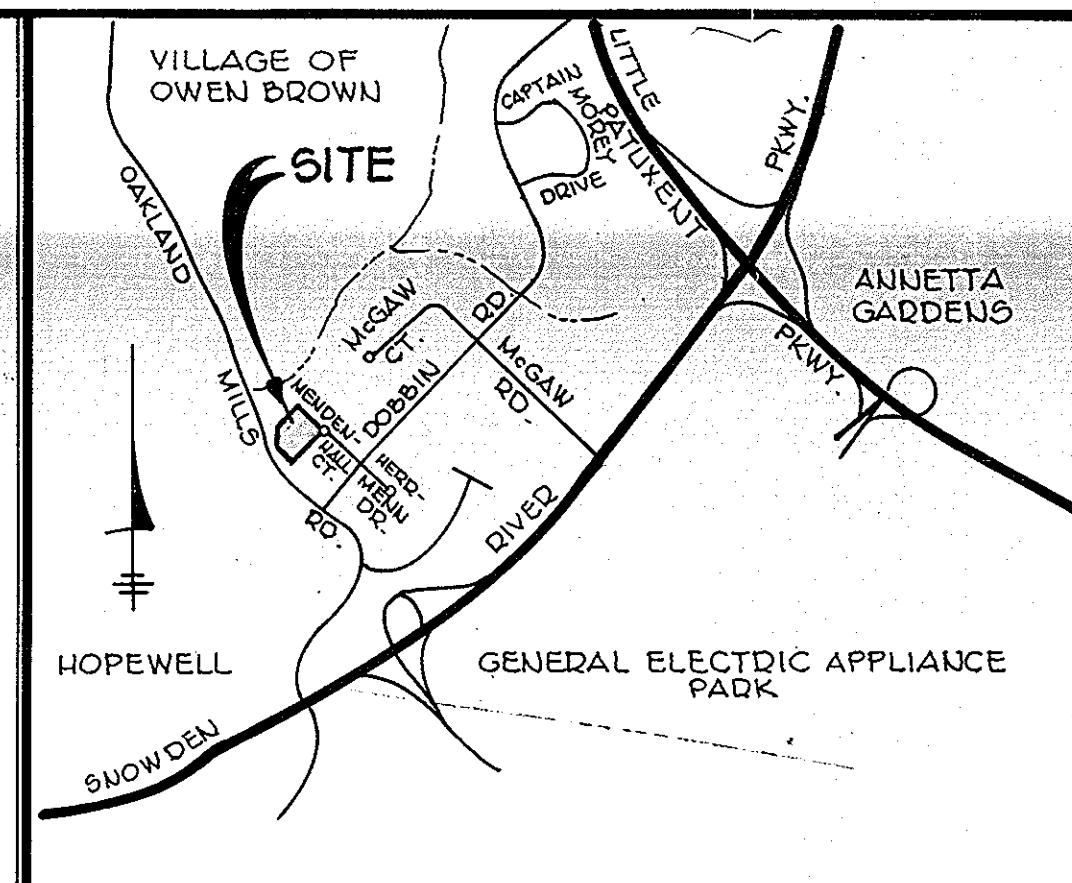


BIT CONC. TO BE APPLIED IN TWO COURSES CONSISTING OF A 2 1/2" BIT. BASE WITH A 1 1/2" BIT. SURFACE APPLIED AFTER TACK COATING BIT. BASE.

ALL WORK IS TO BE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS:  
 CLEARING AND GRADING REFER TO ARTICLE C-1  
 SUBGRADE " " " " C-2  
 BASE COURSE " " " " C-31 OR C-33  
 SURFACE COURSE " " " " C-31

**PAVING SECTION**

**SIELING INDUSTRIAL CENTER SECTION 1 AREA 1**



**VICINITY MAP**  
 SCALE: 1" = 2000'

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 DIRECTOR: *Thomas A. Kramon* DATE: 4-10-81  
 CHIEF DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: *John W. Musserman* DATE: 4-10-81

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
 HOWARD COUNTY DEPT. OF PUBLIC WORKS.  
 DIRECTOR: *Deane F. Nemmer* DATE: 4-8-81  
 CHIEF, BUREAU OF ENGINEERING: *John A. ...* DATE: 4-8-81

REVIEWED FOR THE HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
 U.S. SOIL CONSERVATION SERVICE: *...* DATE: 4-2-81

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL CONSERVATION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 HOWARD S.C.D.: *...* DATE: 4-2-81

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.  
 OFFICER, COUNTY HEALTH DEPT.: *...* DATE: 4-10-81

DEVELOPERS' CERTIFICATION  
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS 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.  
 DARYL BUTCHER: *Daryl Butcher* DATE: 3-19-81

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 3-11-81  
*...*

REVISIONS		
NO.	DATE	DESCRIPTION
1	3/4/81	PER CO. COMMENTS

**SPELLMAN, LARSON & ASSOCIATES, INC.**  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 SUITE 110, JEFFERSON BLDG., TOWSON, MD., 21204  
 PHONE: 823-3535

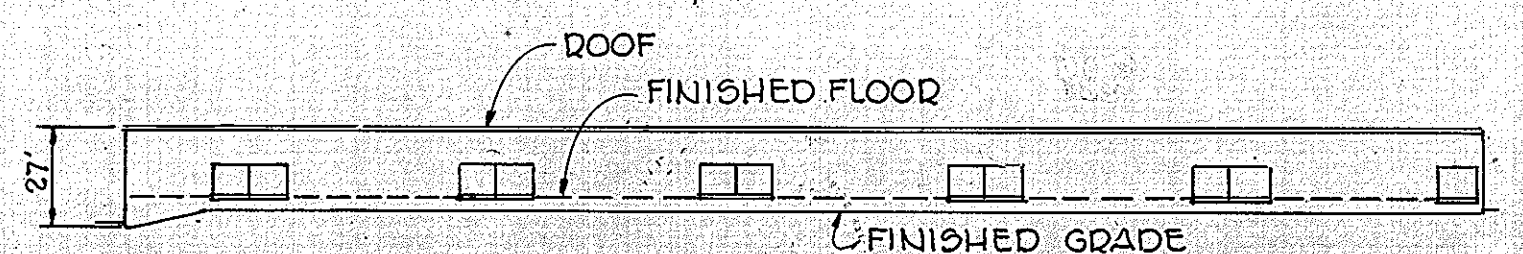
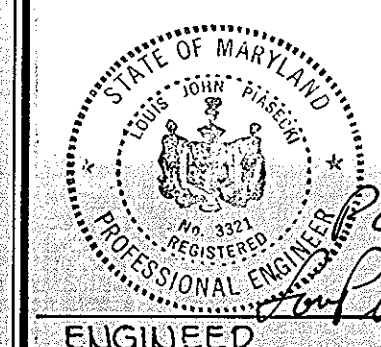
OWNER: COLUMBIA IND. DEV. CORP. THE ROUSE BLDG. COLUMBIA CITY, MD., 21044  
 DEVELOPER: BUTCHER/BUTCHER PARTNERSHIP 200 A MONROE STREET ROCKVILLE, MD., 20850

**SIELING INDUSTRIAL CENTER SECTION 1 AREA 1**  
 PARCEL 'X'-1 - PLAT NO. 4842

**SEDIMENT CONTROL PLAN**

GTH ELECTION DISTRICT: HOWARD CO., MD.  
 SCALE: 1" = 50' DES. BY: A.W.R.  
 DATE: 1-26-81 DRN. BY: A.W.R. SHT. 3 OF 5

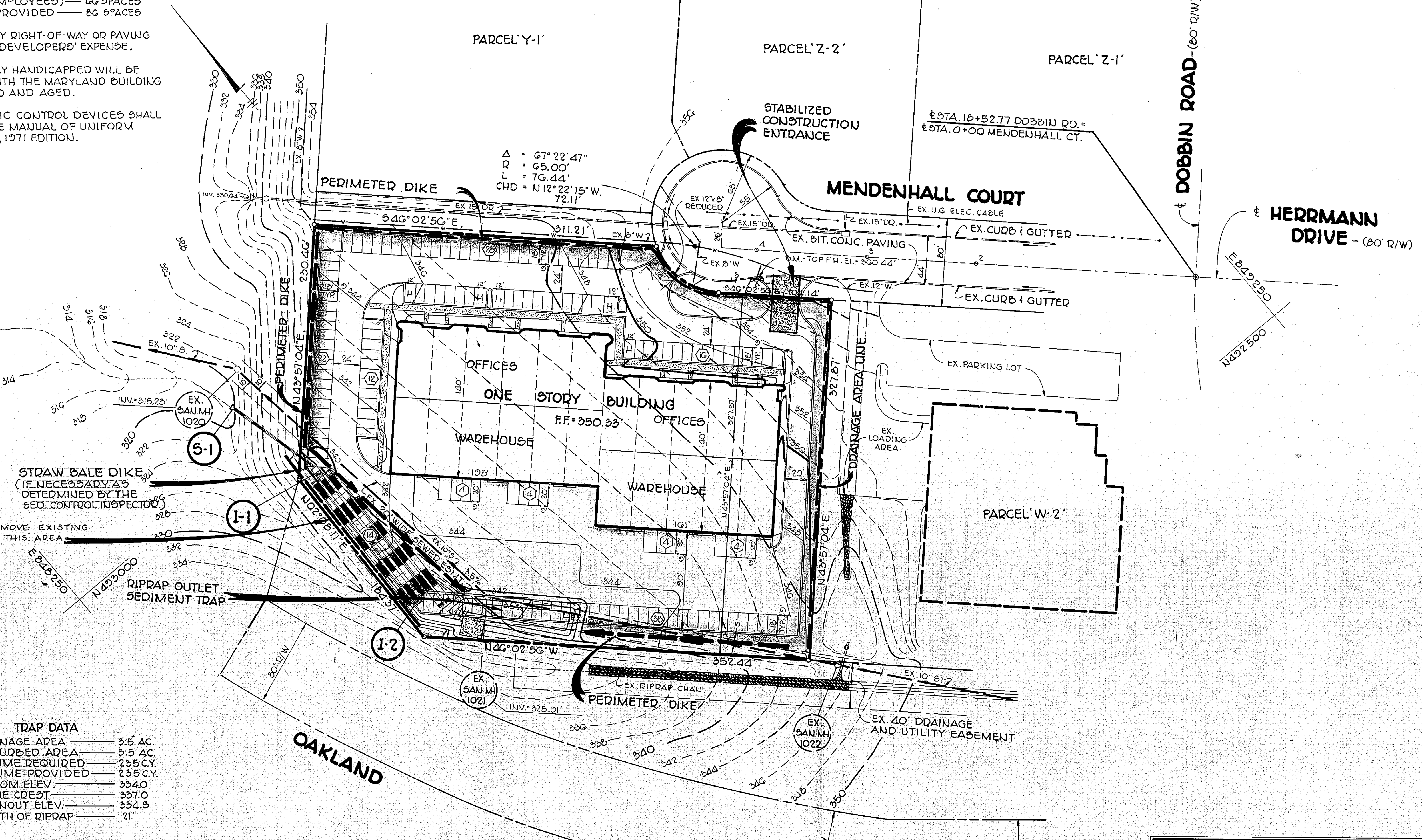
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 PROFESSIONAL ENGINEER: *...* # 3321  
 DATE: March 5, 1981



**SOUTH ELEVATION**

**TRAP DATA**

DRAINAGE AREA	3.5 AC.
DISTURBED AREA	3.5 AC.
VOLUME REQUIRED	235 C.Y.
VOLUME PROVIDED	235 C.Y.
BOTTOM ELEV.	334.0
STONE CREST	337.0
CLEANOUT ELEV.	334.5
LENGTH OF RIPRAP	21'



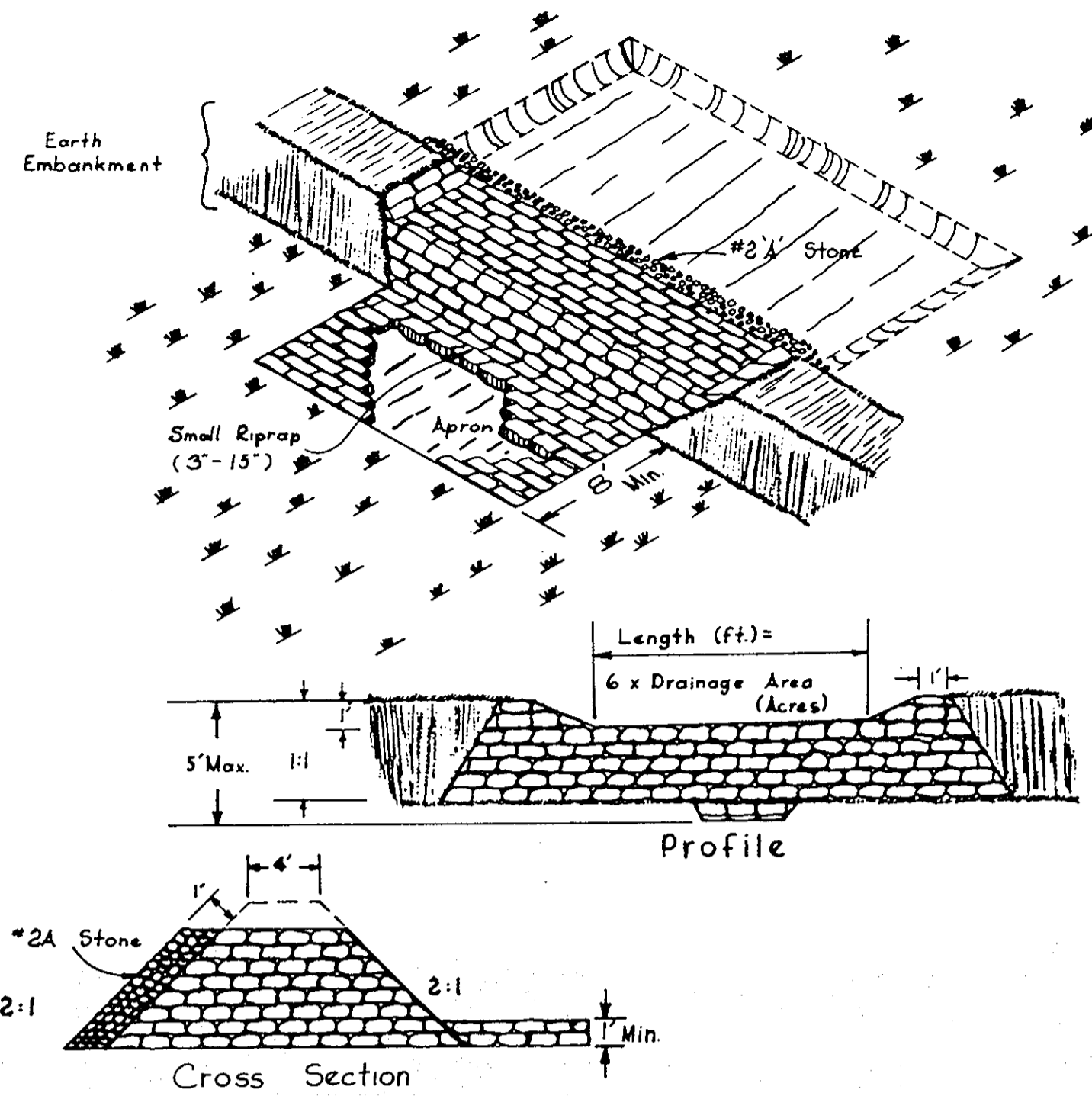
STRAW BALE DIKE (IF NECESSARY AS DETERMINED BY THE SED. CONTROL INSPECTOR)

CONTRACTOR IS TO REMOVE EXISTING PIPE SLOPE DRAIN IN THIS AREA

TRAP DATA

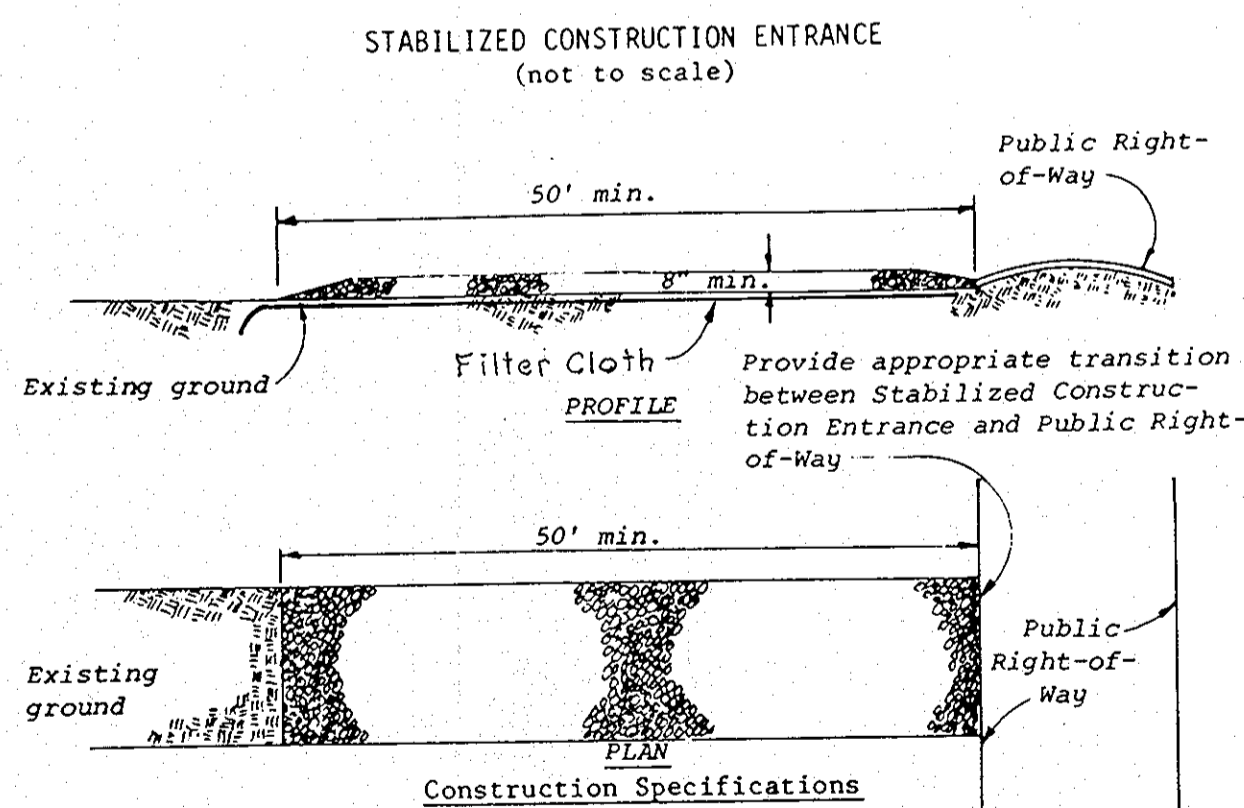
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DRAINAGE AREA	3.5 AC.
DISTURBED AREA	3.5 AC.
VOLUME REQUIRED	235 C.Y.
VOLUME PROVIDED	235 C.Y.
BOTTOM ELEV.	334.0
STONE CREST	337.0
CLEANOUT ELEV.	334.5
LENGTH OF RIPRAP	21'



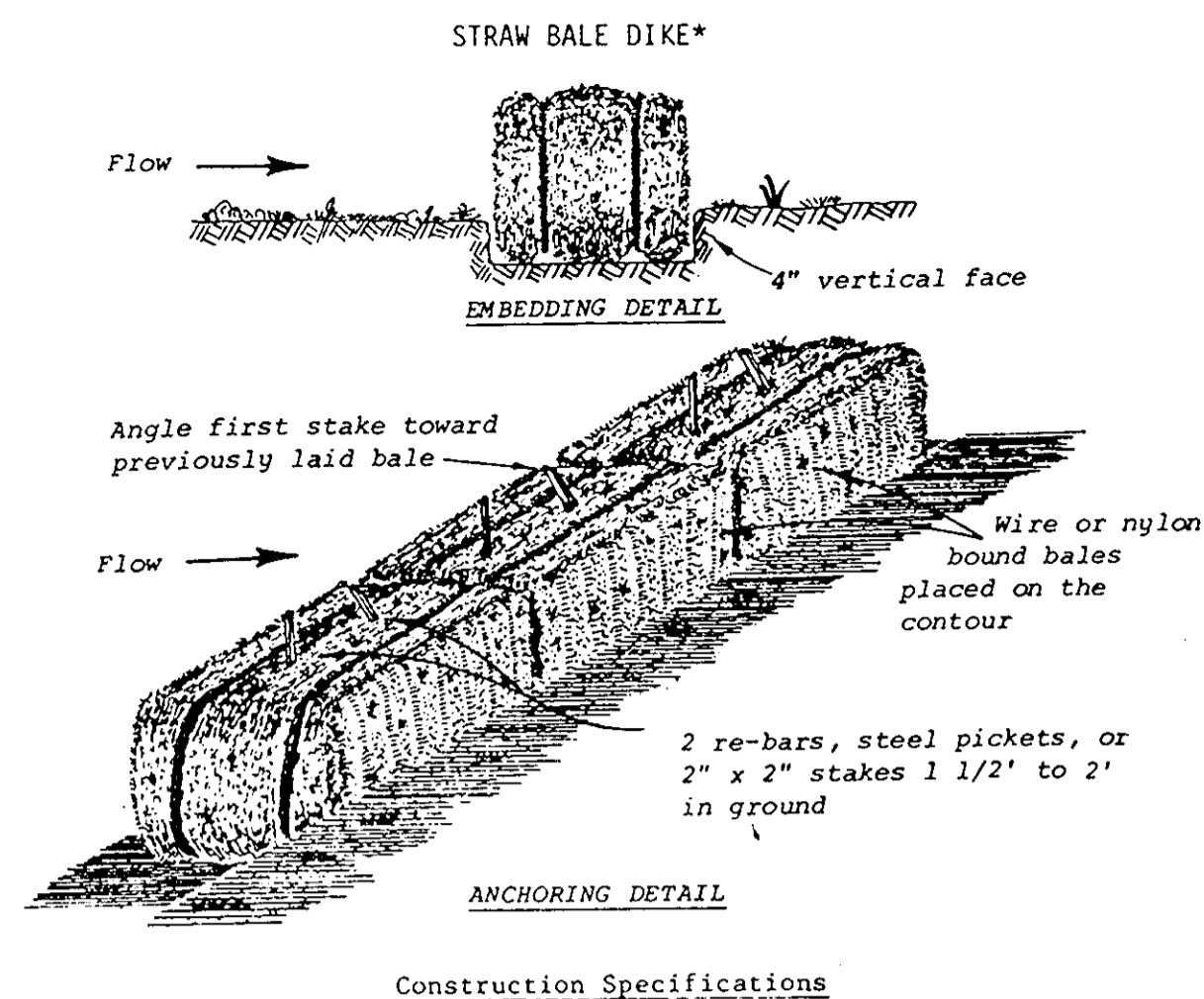
- Construction Specifications**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
  - The fill material for the embankment shall be free of roots or other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
  - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
  - The structure shall be inspected after each rain and repairs made as needed.
  - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
  - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
  - All cut and fill slopes shall be 2:1 or flatter.

**RIPRAP OUTLET SEDIMENT TRAP**   
NO SCALE



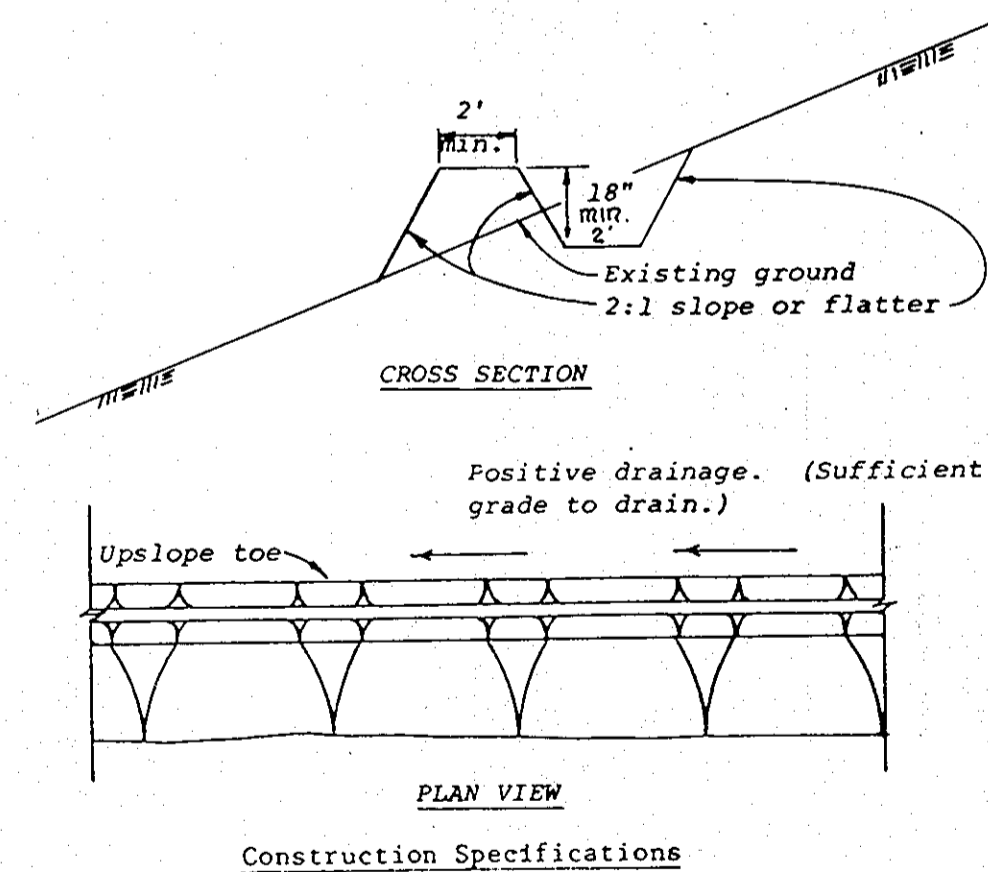
- Construction Specifications**
- Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M42, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
  - Length - As effective, but not less than 50 feet.
  - Thickness - Not less than eight (8) inches.
  - Width - Not less than full width of all points of ingress or egress.
  - Washing - When necessary, wheels 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 crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
  - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.

**STABILIZED CONSTRUCTION ENTRANCE**   
NO SCALE



- Construction Specifications**
- Bales shall be placed in a row with ends tightly abutting the adjacent bales.
  - Each bale shall be embedded in the soil a minimum of 4".
  - Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
  - Inspection shall be frequent and repair or replacement shall be made promptly as needed.
  - Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

**STRAW BALE DIKE**   
NO SCALE



- Construction Specifications**
- All dikes shall be machine compacted.
  - All perimeter dikes shall have positive drainage to an outlet.
  - A. Diverted runoff from a protected or stabilized upland area shall outlet directly onto an undisturbed stabilized area or into a level spreader or grade stabilization structure.
  - B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as sediment trap or a sediment basin or to an area protected by any of these practices.
  - Stabilization, when required, shall be done in accordance with Standard and Specifications for Grassed Waterway. The minimum area to be stabilized shall be the channel flow area.
  - Periodic inspection and required maintenance shall be provided.

\* Drainage area less than 5 acres

**DIVERSION DIKE**   
NO SCALE

**PERMANENT SEEDING NOTES**

- LOOSEN ALL AREAS TO BE SEEDDED TO A DEPTH OF 3" TO 4" BEFORE APPLYING THE LIME AND FERTILIZER TO ALLOW FOR PROPER PENETRATION.
- APPLY 10-10-10 FERTILIZER AT THE RATE OF 25 LBS./1000 S.F.
- APPLY GROUND LIMESTONE AT THE RATE OF 50 LBS./1000 S.F.
- BETWEEN MARCH AND OCTOBER APPLY 100 PERCENT KENTUCKY 31 TALL FESCUE AT THE RATE OF 1.4 LBS./1000 S.F.
- BETWEEN JUNE AND JULY APPLY 100 PERCENT WEEPING LOVEGRASS AT THE RATE OF .05 LBS./1000 S.F. IN ADDITION TO KENTUCKY 31.
- APPLY MULCHING AT THE RATE OF 20 LBS./1000 S.F.
- APPLY EMULSIFIED ASPHALT AT THE RATE OF 5 GALS./1000 S.F. OR 200 GALS. PER ACRE.

**TEMPORARY SEEDING NOTES**

- TEMPORARY SEEDING APPLIES TO ALL DISTURBED EARTH USED IN A SEDIMENT CONTROL FUNCTION. SEEDING WILL BE DONE IMMEDIATELY AFTER CONSTRUCTION OF SEDIMENT CONTROL DEVICES WHILE THE EARTH IS IN A LOOSE CONDITION TO ALLOW FOR PROPER PENETRATION OF THE LIME AND FERTILIZER.
- APPLY 10-20-20 FERTILIZER AT THE RATE OF 10 LBS./1000 S.F.
- APPLY LIMESTONE AT THE RATE OF 50 LBS./1000 S.F. IN ACIDIC AREAS
- APPLY WEEPING LOVEGRASS AT THE RATE OF 3 LBS./AC. BETWEEN MAY 1 AND JULY 15 OR RYE AT THE RATE OF 2 1/2 BU./AC. BETWEEN MAR. 15 AND JULY 1 OR BETWEEN AUG. 1 & OCT. 31

**SEQUENCE OF CONSTRUCTION**

- OBTAIN A GRADING PERMIT.
- NOTIFY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS AT LEAST 24 HOURS BEFORE ANY WORK BEGINS.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- INSTALL RIPRAP OUTLET SEDIMENT TRAP AND STABILIZE PER TEMPORARY SEEDING NOTES.
- INSTALL DIVERSION DIKES AND STABILIZE PER TEMPORARY SEEDING NOTES.
- BEGIN SITE GRADING
- INSTALL UTILITIES
- BEGIN BUILDING CONSTRUCTION.
- BEGIN PAVING OPERATION
- FINE GRADE AND STABILIZE ALL GRASSED AREAS PER PERMANENT SEEDING NOTES.
- WHEN PERMISSION IS GRANTED BY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS REMOVE ALL SEDIMENT CONTROL DEVICES AND STABILIZE IMMEDIATELY PER PERMANENT SEEDING NOTES.

**GENERAL NOTES**

- REFER TO USDA - SOIL CONSERVATION SERVICE STDS. AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS FOR STD. DETAILS AND DETAILED SPECS. OF EACH PRACTICE SPECIFIED HEREON.
- ALL SEDIMENT CONTROL WORK IS TO BE COMPLETED AS THE FIRST PHASE OF CONSTRUCTION.
- THE CONTRACTOR IS TO STABILIZE ALL PAVING AREAS IMMEDIATELY UPON COMPLETION OF GRADING.
- ALL SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT.
- ALL LAND AREAS ARE TO BE SODED AND/OR SEEDDED AND MULCHED IMMEDIATELY AFTER THE GRADING OPERATION IS COMPLETED.
- REFER TO THE SITE DEVELOPMENT PLAN FOR THIS PROJECT FOR GENERAL INFORMATION PERTINENT TO THIS PROJECT.
- AT THE END OF EACH WORKING DAY, ALL SEDIMENT CONTROL MEASURES WILL BE INSPECTED AND LEFT IN AN OPERATIONAL CONDITION.
- DURING THE LAYOUT OF SEDIMENT CONTROL PRACTICES REQUIRED ON THIS PLAN, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE ARREST AND CONTROL OF ANY SEDIMENT BEFORE IT LEAVES THE CONSTRUCTION SITE. CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE SOIL CONSERVATION DISTRICT.
- ANY EXCESS EARTH WILL BE TRUCKED TO AN APPROVED SPOIL AREA.

**APPROVED**   
PLANNING BOARD  
OF HOWARD COUNTY  
DATE **3-11-81**

ENGINEER'S CERTIFICATION  
I CERTIFY THAT THIS PLAN FOR THE CONSTRUCTION OF THE UNDERGROUND S.W.M. FACILITY, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD S.C.D.

STATE OF MARYLAND  
REGISTERED PROFESSIONAL ENGINEER  
P. E. 3321  
March 5, 1981  
ENGINEER DATE

DEVELOPER'S CERTIFICATION  
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, 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.

Daryl Butcher 3-18-81  
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWER-AGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.

James M. Bond, M.D. Dir. P.E.S. 4-10-81  
OFFICER, COUNTY HEALTH DEPT. DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

Douglas L. Hamrick, 4-10-81  
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWAGE AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPT. OF PUBLIC WORKS.

Mark F. Neumeier, 4-8-81  
DIRECTOR DATE

APPROVED: CHIEF, BUREAU OF ENGINEERING 4-8-81  
DATE

REVIEWED FOR THE HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

U.S. SOIL CONSERVATION SERVICE 4-2-81  
DATE

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

HOWARD S.C.D. 4-2-81  
DATE

REVISIONS		
NO.	DATE	DESCRIPTION
1	3/4/81	PER CO. COMMENTS

**SPELLMAN, LARSON & ASSOCIATES, INC.**   
CIVIL ENGINEERS AND LAND SURVEYORS  
SUITE 110, JEFFERSON BLDG., TOWSON, MD., 21204  
PHONE: 823-3535

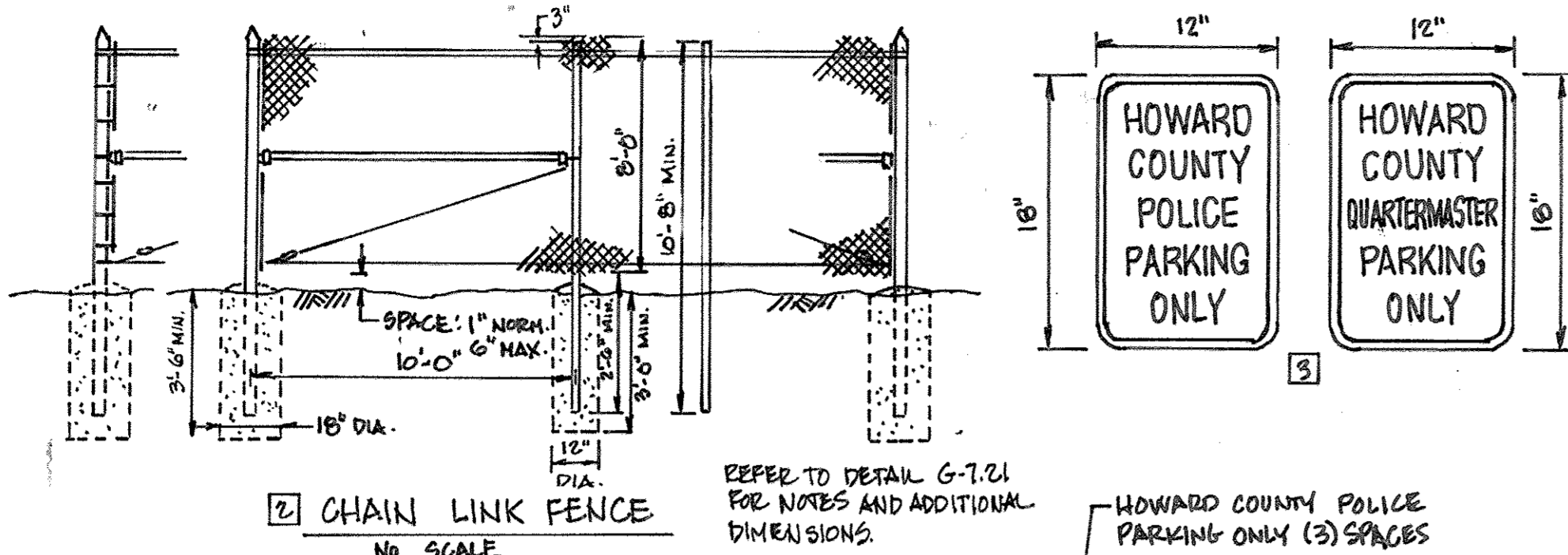
OWNED - DEVELOPER  
COLUMBIA IND. DEV. CORP. 617CHER/BUTCHER PARTURHP.  
THE ROUSE BLDG. 200 A. HOLLOE STREET  
COLUMBIA CITY, MD. 21044 ROCKVILLE, MD. 20850

SIELING INDUSTRIAL CENTER  
SECTION I AREA I  
PARCEL 'X'-1 - PLAT NO. 4842

**SEDIMENT CONTROL DETAILS**

16TH ELECTION DISTRICT HOWARD CO., MD.  
SCALE: AS SHOWN DES. BY: E.J.  
DATE: 1-26-81 DRN. BY: E.B.J. SHT. 4 OF 5

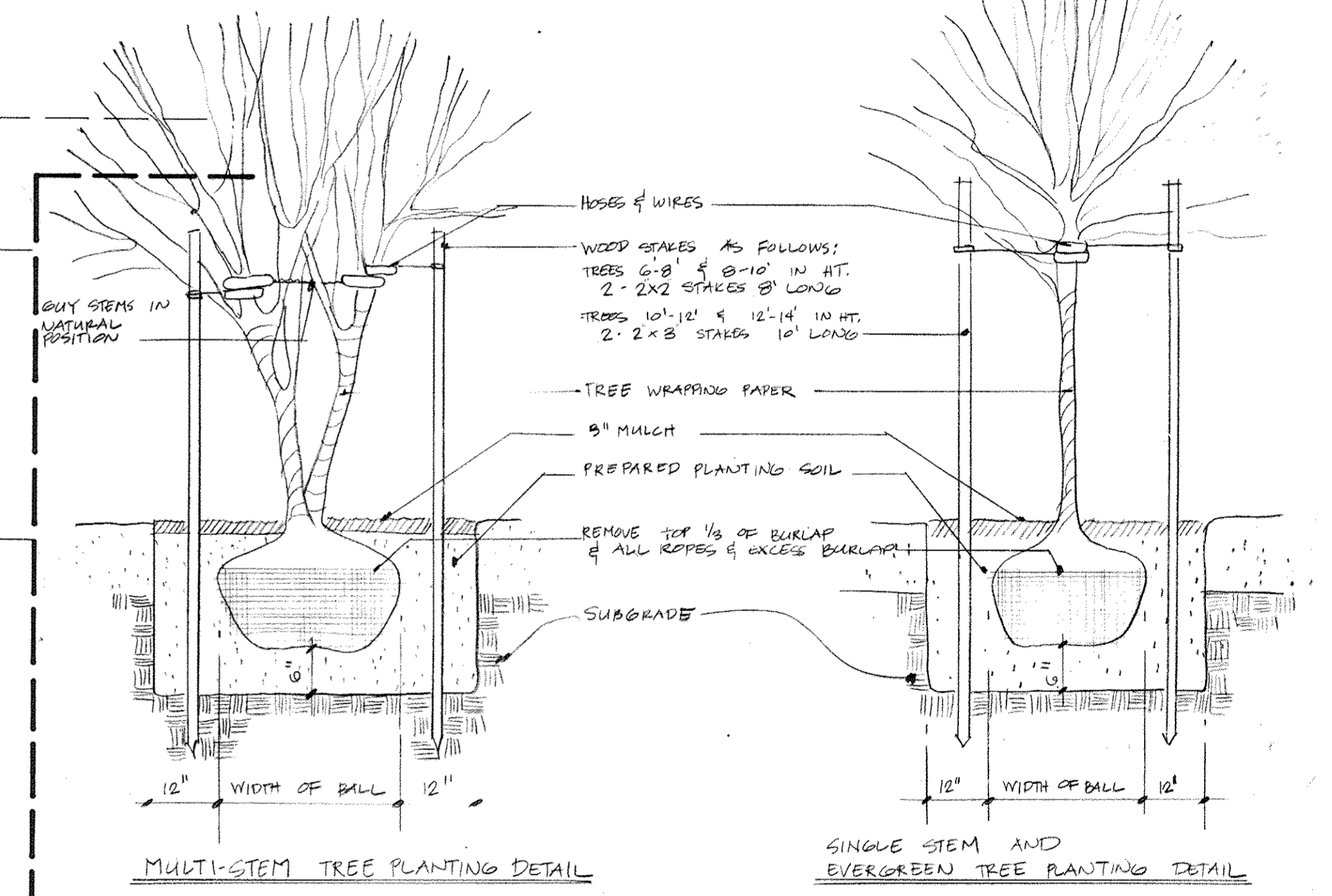
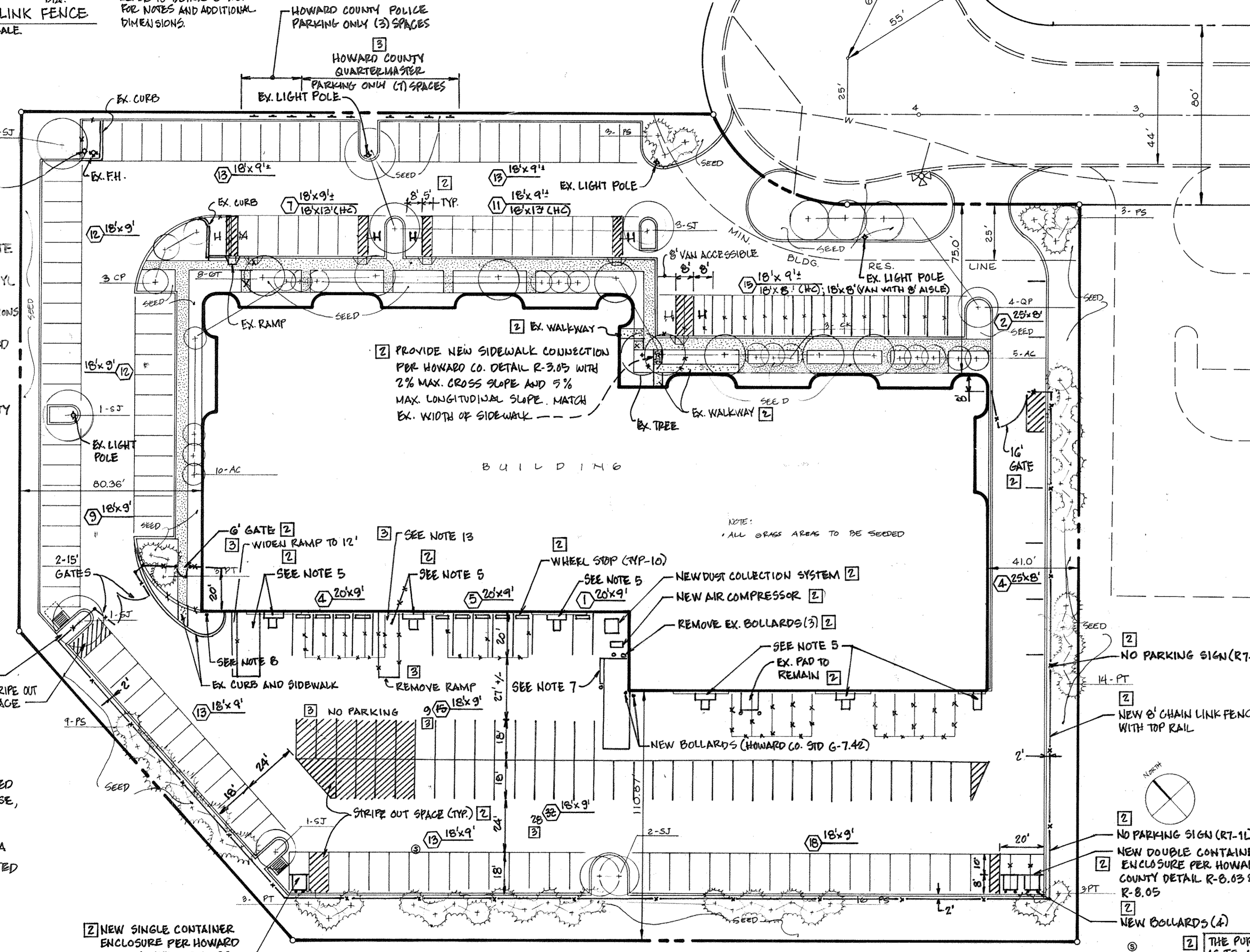
SDP-81-100 #80080



MENDENHALL COURT

PARCEL X SIELING INDUSTRIAL CENTER PLANT LIST		COMMON	QUAN.	SIZE	REMARKS
SYMBOL	BOTANICAL				
<b>SHADE TREES</b>					
GT	Gleditsia triacanthos inermis 'shademaster'	Thornless Honey Locust	8	2 1/2-3' cal. 12-14'	cal. low branching specimen
QP	Quercus palustris	Pin Oak	4	2 1/2-3' cal. 12-14'	specimen low branching perfect leader
SJ	Sophora japonica	Japanese Pagoda Tree	9	2 1/2-3' cal. 12-14'	low branching specimen
<b>FLOWERING TREES</b>					
AC	Amelanchier canadensis	Serviceberry	15	6'-10'	2-2 1/2" multi-stem graceful
CP	Cretagus phaenopyrum	Washington Hawthorn	4	"	Dense specimen
CK	Cornus kousa	Japanese Dogwood	3	"	specimen
<b>EVERGREEN TREES</b>					
PS	Pinus strobus	White Pine	31	6'-8'	2-2 1/2" unshered
PT	P. thunbergii	Japanese Black Pine	23	6'-8'	dense

- NOTES:**
1. TRIM EXISTING TREES/SHRUBS TO ACCOMMODATE INSTALLATION OF FENCE.
  2. CHAIN LINK FENCE SHALL BE 6' IN HEIGHT, BLACK VINYL COATED AND ADHERE TO MD STATE HIGHWAY ADMIN. SPECIFICATION SECTION 607 (SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS - JULY 2008); SPI SECTION 914 (02-07-11), AND HOWARD COUNTY STANDARD DETAIL G-7.21 (INCLUDING TOP RAIL).
  3. GATE DIMENSIONS AND SWING ORIENTATION MUST BE FIELD VERIFIED PRIOR TO ORDER & INSTALLATION. EACH GATE MUST BE LOCKABLE AND INCLUDE A HOWARD COUNTY FIRE DEPARTMENT APPROVED KNOX BOX.
  4. PLACE CONCRETE WHEEL STOPS 2' FROM BUILDING - TYPICAL 10 (STANDARD MD 634.04).
  5. EX. RAMPS & STAIRS TO REMAIN.
  6. ALL STRIPING SHALL BE 4" WHITE PAINT PER SPEC SECTION 951.
  7. REMOVE/DISPOSE EX. SCREEN WALL.
  8. REPAIR DOWNSPOUT CONNECTIONS.
  9. PROVIDE HANDICAP PARKING SIGNS AT EACH HANDICAP SPACE (H). PROVIDE VAN ACCESSIBLE PLASQUE AT VAN ACCESSIBLE SPACE.
  10. REMOVE EX. RESERVED PARKING SIGNS.
  11. PROVIDE HANDICAP PAVEMENT MARKINGS AT EACH HANDICAP SPACE. MATCH EXISTING.
  12. PARKING SIGNS SHALL ADHERE TO MD STATE HIGHWAY ADMINISTRATION SECTION B13. SIGN SUPPORTS SHALL ADHERE TO MD STATE HIGHWAY ADMINISTRATION SPECIFICATION SECTION 802; SEE SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS - MAY 2017 (SHA SPEC 2017).
  13. REMOVE EXISTING CONCRETE RAMP. PLACE 6" GRADED AGGREGATE BASE; 6" HMA SUPERPAVE BASE COURSE, 19 MM, PG-64-22, LEVEL 2; 2" HMA SUPERPAVE FINAL SURFACE, 12.5 MM, PG-64-22, LEVEL 2 IN ACCORDANCE WITH SECTIONS 501 & 504 OF THE SHA SPEC 2017. PAVEMENT SHALL BE PLACED ON COMPACTED SUBGRADE.



PLANTING PLAN  
1" = 30'

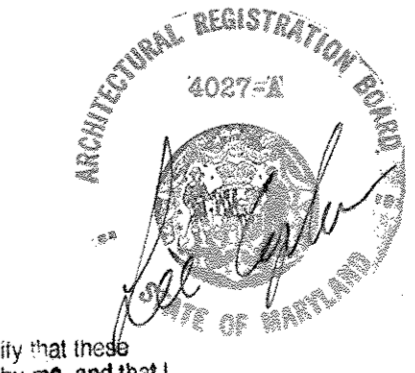
REVIEWED FOR THE HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
 U.S. SOIL CONSERVATION SERVICE DATE: 4-2-81  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL CONSERVATION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 HOWARD S.C.D. DATE: 4-2-81  
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD CO. HEALTH DEPT.  
 OFFICER, COUNTY HEALTH DEPT. DATE: 4-10-81

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
 DIRECTOR DATE: 4-10-81  
 CHIEF, DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE: 4-10-81  
 APPROVED FOR PUBLIC WATER, PUBLIC SEWAGE AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPT. OF PUBLIC WORKS.  
 DIRECTOR DATE: 4-8-81  
 CHIEF, BUREAU OF ENGINEERING DATE: 4-9-81

ENGINEER'S CERTIFICATION  
 I CERTIFY THAT THIS PLAN FOR THE CONSTRUCTION OF THE UNDERGROUND SWM FACILITY EROSION AND SEDIMENT CONTROL REPRESENT A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD S.C.D.  
 ENGINEER DATE: 5-19-81

DEVELOPERS' CERTIFICATION  
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, 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.  
 DATE: 3-13-81

APPROVED PLANNING BOARD OF HOWARD COUNTY  
 DATE: 3-11-81  
 THIS PERTAINS TO REDLINE REVISION NO. 2, ONLY AND NO. 3  
 REV. 1-10-91 ADD WORKSHEETS



REVISIONS		
NO.	DATE	DESCRIPTION
1	3/4/81	PER CO. COMMENTS
2	4-10-81	RESTRIPE PARKING, ADD SECURITY FENCE & THREE DUMPSTERS, AND REMOVE SCREEN WALL
3	1/09/2018	REVISED PARKING/ADDED SIGNS

**SPELLMAN, LARSON & ASSOCIATES, INC.**  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 SUITE 110, JEFFERSON BLDG., TOWSON, MD., 21204  
 PHONE: 823-3535

OWNER: COLUMBIA IND. DEV. CORP. THE ROUSE BLDG. COLUMBIA CITY, MD, 21044  
 DEVELOPER: BIRTCHEW/BUTCHER PTRNSHP. 200 A MONROE ST. ROCKVILLE, MD, 20850

**SIELING INDUSTRIAL CENTER SECTION I AREA I**  
 PARCEL 'X'-1 - PLAT No. 4842  
 REVISED SITE DEVELOPMENT PLAN  
**LANDSCAPING PLAN**

6TH ELECTION DISTRICT HOWARD CO., MD  
 SCALE: 1" = 30' DES. BY: DATE: 1-26-81 DRN. BY: E.B.J. SHT. 5 OF 5

**HORD, COPLAN + MACHT, INC.**  
 ARCHITECTS, LANDSCAPE + INTERIOR DESIGNERS  
 2526 ST. PAUL STREET  
 BALTIMORE, MARYLAND 21218  
 (301) 467-7011