

DEPRESSED CURB

4'

5'

1'

EXP. JOINT

EXPANSION JOINT

2"

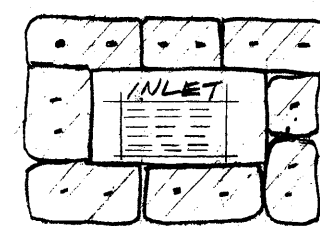
18"

WIRE MESH
NO TO W/M
SPACE 6" C-C

6" THICK

CONCRETE DRIVEWAY APRON DETAIL

NOT TO SCALE



STRAW BALES AROUND
DRAIN INLETS - TIGHTLY
BUTTED AGAINST EACH
OTHER - TO BE CHECKED
PERIODICALLY FOR SILT BUILDUP
AND REPLACE
OR #4 RIBBON STAKE THRU TO
GRADE BELOW

1. PROVIDE AT ALL INLETS DOWNSTREAM OF PROPOSED CONSTRUCTION ACTIVITIES
2. REMOVE AFTER FINAL ASPHALT & PERMANENT VEGETATION OR MULCHES ARE IN PLACE & ESTABLISHED

- [illegible]

1. EXPOSED SOLS NOT SUBJECT TO CONSTRUCTION AND BEYOND RECOMMENDED SEEDING DATES OR VEGETATION COVER REQUIREMENT. MICHIGAN SHALL DROUGHT PROTECT THESE AREAS BY PROVIDING TEMPORARY MEASURE UNTIL A MORE SUITABLE PROTECTION IS DEVELOPED.
2. GRADE - REQUIRED TO PERMIT USE OF CONVENTIONAL EQUIPMENT APPLYING AND ANCHORING MULCH IF REQUIRED AS A COVER FOR PREPARATION OF VEGETATION PREPARATION SHALL CONFORM TO PERMANENT VEGETATIVE STANDARDS.
3. INSTALL REQUIRED EROSION CONTROL PRACTICES AND FACILITIES PRIOR TO ANY SOIL DISTURBANCE.
4. SITES REQUIRING TEMPORARY COVER OR UNTIL A MORE SUITABLE PROTECTION IS DEVELOPED, MULCH WITH UNROOTED SHAIL GRASS STRAW AT RATES OF 7500 LBS/TONNAGE PER ACRE OR 8000 LBS/1000 SF OF AREA. SPREAD UNIFORMLY TO ACHIEVE 75 TO 90% SOIL COVERAGE.
5. SITES REQUIRING OUT OF SEASON STABILIZATION, MULCH AS ABOVE AT A RATE OF 6000 LBS/TONNAGE PER ACRES OR 7000 LBS/1000 SF OF AREA. MULCH ANCHORING TOWEL, LIQUID BINDERS OR NETTING TECHNIQUES.
6. SITES REQUIRING DRIVE OR HAYT MATS - TO BE APPLIED IMMEDIATELY AFTER PLACEMENT OF MULCH STRAW OR UNTIL MATS ARE AVAILABLE.
7. EACH PG TWINE - DRIVE & IT IN WOODEN PEGGS TO TWINE 2 TO 3 FEET FROM THE CRISIS-CROSS-ROADS TO SECURE TWINE BETWEEN PEGS. EACH PG TWINE WITH TWO OR MORE ROUNDS TURN.
8. MULCH NETTINGS - STAPLE PAPER, COTTON, OR PLASTIC NETTINGS OVER HAY OR STRAW MULCH. NETTING TO BE SECURED TO THE GROUND

- OR APPROVED EQUAL.
- C) MULCH ANCHORING TOLL - SPECIALITY EQUIPPED TRACTOR TO PUNCH AND ANCHOR MULCH INTO SOIL 3 TO 4 INCHES, TO BE APPROVED BY SITE ENGINEER.
- D) LIQUID MULCH-BINDERS - APPLY HEAVY AT EDGES OF MULCHED AREA IN VALLEYS AND CRESTS OF BANKS. REMAINDER TO BE UNIFORMLY SPREAD.
- FOLLOWING MAY BE USED:
- E1) EMULIFIED ASPHALT - CSS1 - CSS2, CMS2, MS2, RS1, RS2 - CRS1 - CRS21 - APPLIED 0.04 GALLON / (194 GAL/A) ON FLAT AREAS OR SLOPES LESS THAN 6 FEET HIGHER SLOPES 8FEET OR GREATER, APPLIED AT .075 GALS / SQY. (363 GAL/A)
- F1) CUTBACK ASPHALT - RAPID CURRING #RC70, RC#250, RC#800 or OTHER TYPE CURRING MODIFIER - APPLIED 0.04 GALLON / (194 GAL/A) ON FLAT AREAS OR SLOPES LESS THAN 8 FEET SLOPES 8FEET OR GREATER, APPLIED AT .075 GALS / SQY (363 GAL/A).
- G) SYNTHETIC OR ORGANIC BONDERS - TO BE APPLIED PER MANUFACTURERS RECOMMENDATION. BINDER TO BE:
- TERESA-TAK AR COLEMAN

1. TOPSOIL TO BE LOAMY, HIGH IN ORGANIC MATTER, FRAGILE, FREE OF BRIBES, WEEDS, STONES, AND CONTAIN NO TOXIC SUBSTANCES HARMFUL TO PLANTS.
2. THE pH RANGE TO BE 5.0 TO 7.5. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 100 MICROMHO PER CENTIMETER). OFFTASTE (TOPOIL TO HAVE A MINIMUM OF 0.01 MILICENTS PER CENTIMETER) SHOULD BE RAISED BY ADDITIVES. HUMUS, PEATMOSS, ETC.).
3. PREPARE SITE TO PERMIT USE OF CONVENTIONAL EQUIPMENT FOR SEEDING OR SPREADING. PREPARE SURFACE AS PER STANDARD CONSTRUCTION STANDARDS.
4. TEST SUBSOIL FOR LIME REQUIREMENT AND RAISE pH LEVEL TO 6.5, AND ADD TOPSOIL UNDER SOIL TO A DEPTH OF 4 INCHES.
5. 6. MAINTAINED EROSION CONTROL PRACTICES AND FACILITIES.
7. 8. SCARIFY SURFACE OF EROSION CONTROL FACILITIES TO PREVENT HANDLE TOPSOIL ONLY WHEN IT IS DRY ENOUGH TO PREVENT DAMAGING THE SOIL STRUCTURE.
9. 10. INSTALL AT A DEPTH OF 5 INCHES (UNSETTLED).
11. 12. ALTERNATE: INSTALL AT A DEPTH OF 12 INCHES TO COVER SOLTS HAVING A

3. **TEST RESULTS** PERFORM PERMANENT SOIL ANALYSIS TO A DEPTH OF 2 FEET BELOW FINISHED GRADE. GRADE SIZE AS REQUIRED TO PERMIT USE OF CONVENTIONAL EQUIPMENT TO PREPARE SEEDBED. INSTALL PERMANENT PERCOLATION TEST PIT TO MONITOR FACILITIES PRIOR TO SEEDBED PREPARATION.

4. **TEST RESULTS** PERFORM PERMANENT SOIL ANALYSIS TO A DEPTH OF 3 FEET.

5. **APPLY LIMESTONE AND FERTILIZER** PER SOIL TEST RESULTS IN LIEU OF SOIL TESTS THE FOLLOWING SHALL APPLY: FERTILIZER, 10-20-10 AT A RATE OF 100 LBS/A (1:1:1) LIME, 100 LBS/A (1:1:1) OR EQUIVALENT NITROGEN, 80 LBS/A OF 38-0-0 SOLUBLE NITROGEN (100 LBS/1000 S.F.) FOR SANDY LOAM SOILS. PULVERIZED LOMOLITE LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS 50% MAGNESIUM) AT RATES AS FOLLOWS:

6. **APPLY 100 LBS/A (1:1:1) LIME** FOR SANDY LOAM SOILS. **APPLY 150 LBS/A (1:1:1) LIME** FOR CLAY LOAM SOILS. **APPLY 200 LBS/A (1:1:1) LIME** FOR SANDY LOAM SOILS. **APPLY 250 LBS/A (1:1:1) LIME** FOR CLAY LOAM SOILS.

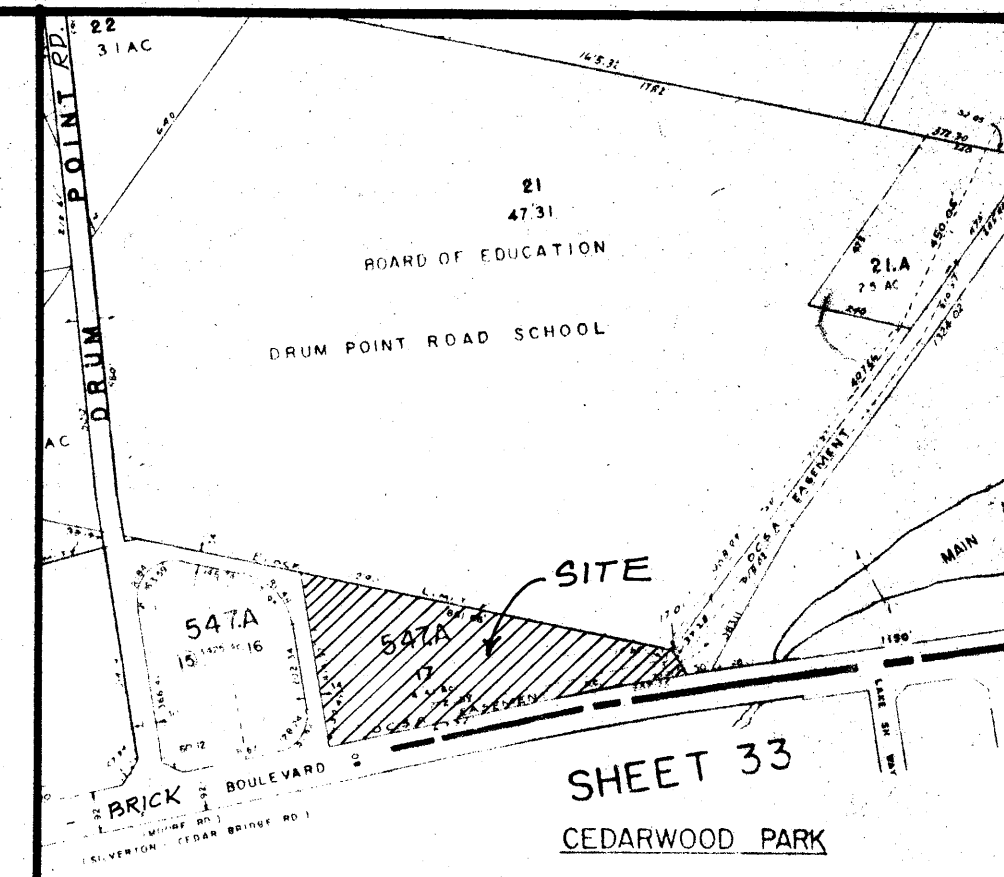
7. **WORK LIMESTONE AND FERTILIZER INTO SOILS** AT A DEPTH OF 4 INCHES TO 6 INCHES. DRINKING WATER (HARROW OR S.F.) SHOULD BE USED TO PREPARE SOIL SHOULD FOLLOW THE GENERAL CONTRACTOR. SOILS UNTIL A UNIFORM FINE SEEDBED IS ESTABLISHED. ROLL AND FIRM SEEDBED TO PREPARE A SILENTLY EVEN SEEDBED.

8. **REMOVE** FROM SURFACE ALL STONES, DEBRIS LARGER THAN 2 INCHES IN ANY DIMENSION PRIOR TO CYCLING.

9. **INSTALL** SEEDER 6 FEET TO 8 FEET FROM PIVOT AND FERTILIZER AND FERTILIZER.

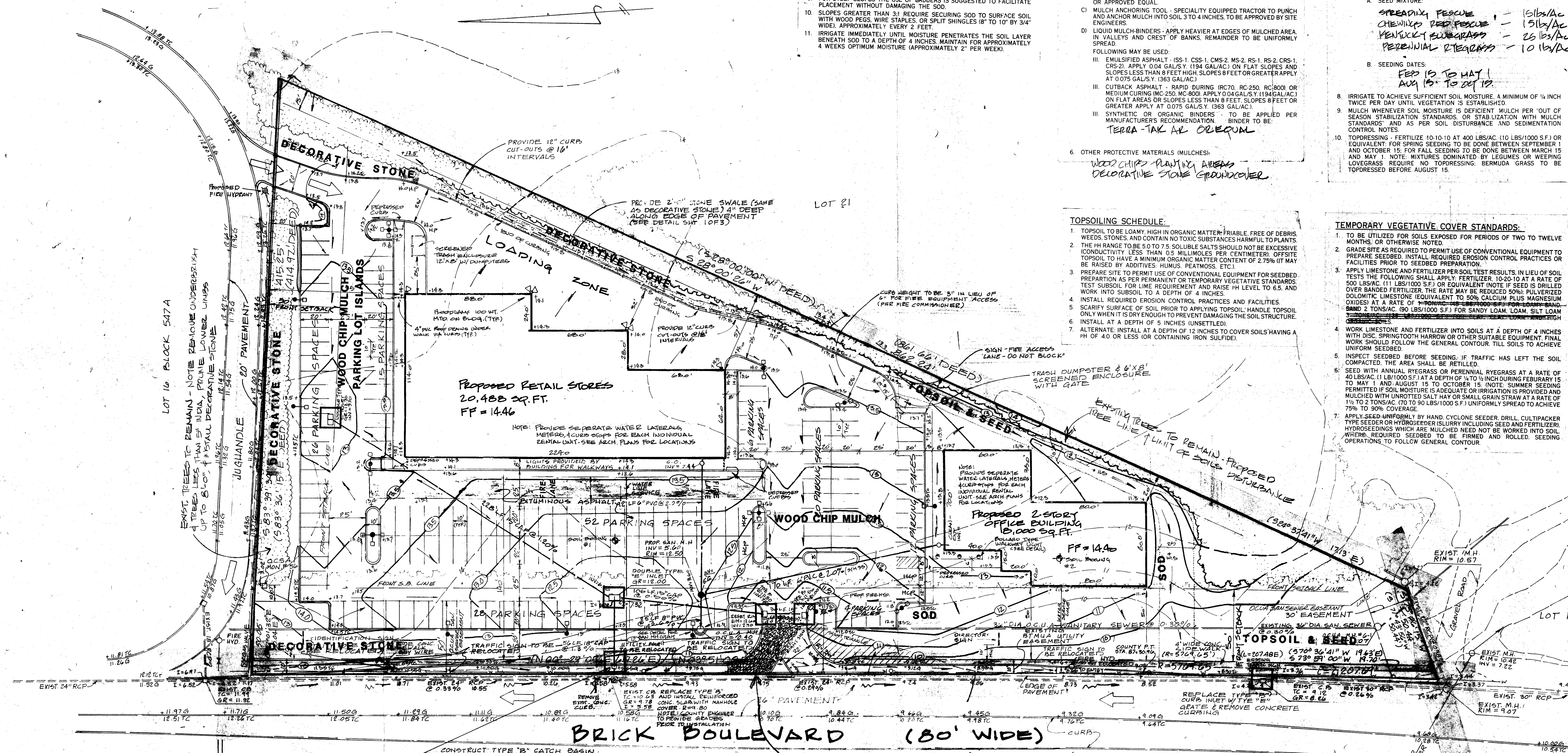
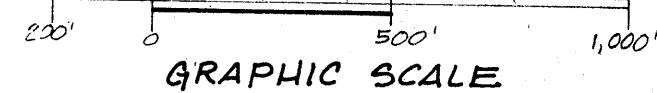
10. **APPLY** SEED UNIFORMLY BY HAND CYCLING SEEDER DRILL, CULPMASTER TYPE SEEDER OR HYDROSEEDER (MACHINE INCLUDING SEED AND FERTILIZER) AT A RATE OF 4% TO 5% OF SEED WEIGHT. SEEDS NOT BEING WORKED INTO THE SOIL, SEEDBED SHALL BE FIRME FOLLOWING SEEDING OPERATION WITH A ROLLER, OR LIGHT GRAD (EXCEPT FOR HYDROSEEDING TYPE SEEDER OR HYDROSEEDER) SEEDING TO FOLLOW THE GENERAL CONTRACTOR.

- A. SEED MIXTURE:
- | | |
|---------------------|-----------|
| SPREADING PEGUOLE | 15 lbs/ac |
| CHEWPUK PEGUOLE | 15 lbs/ac |
| PERENNIAL BLUEGRASS | 26 lbs/ac |
| PERENNIAL RYEGRASS | 10 lbs/ac |
- B. SEEDING DATES:
- FEB 15 TO MAY 1
AUG 15 TO SEP 15
8. IRRIGATE TO ACHIEVE SUFFICIENT SOIL MOISTURE. A MINIMUM OF 1/4 INCH TWICE PER DAY UNTIL VEGETATION IS ESTABLISHED.
9. MULCH WHENEVER SOIL MOISTURE IS DEFICIENT. MULCH PER "OUT OF SEASON" RECOMMENDATIONS OR FOR STABILIZATION WITH "MULCH STANDARDS" AND AS PER SOIL DISTURBANCE AND SEDIMENTATION CONSTRUCTION STANDARDS.
10. TOPDRESSING - FERTILIZE 10-10-10 AT 47,000 LBS/AC (10 LBS/1000 S.F.) OR EQUIVALENT FOR SPRING SEEDING TO BE DONE BETWEEN MARCH 15 AND OCTOBER 15. FOR ALL TOPDRESSING TO BE DONE BETWEEN SEPTEMBER 15 AND MAY 1. NOTE: MIXTURES DOMINATED BY LEGUMES OR WEEPING LOVEGRASS REQUIRE NO TOPDRESSING. BERMUDA GRASS TO BE TOPDRESSED BEFORE.



SCALE: 1"=40'

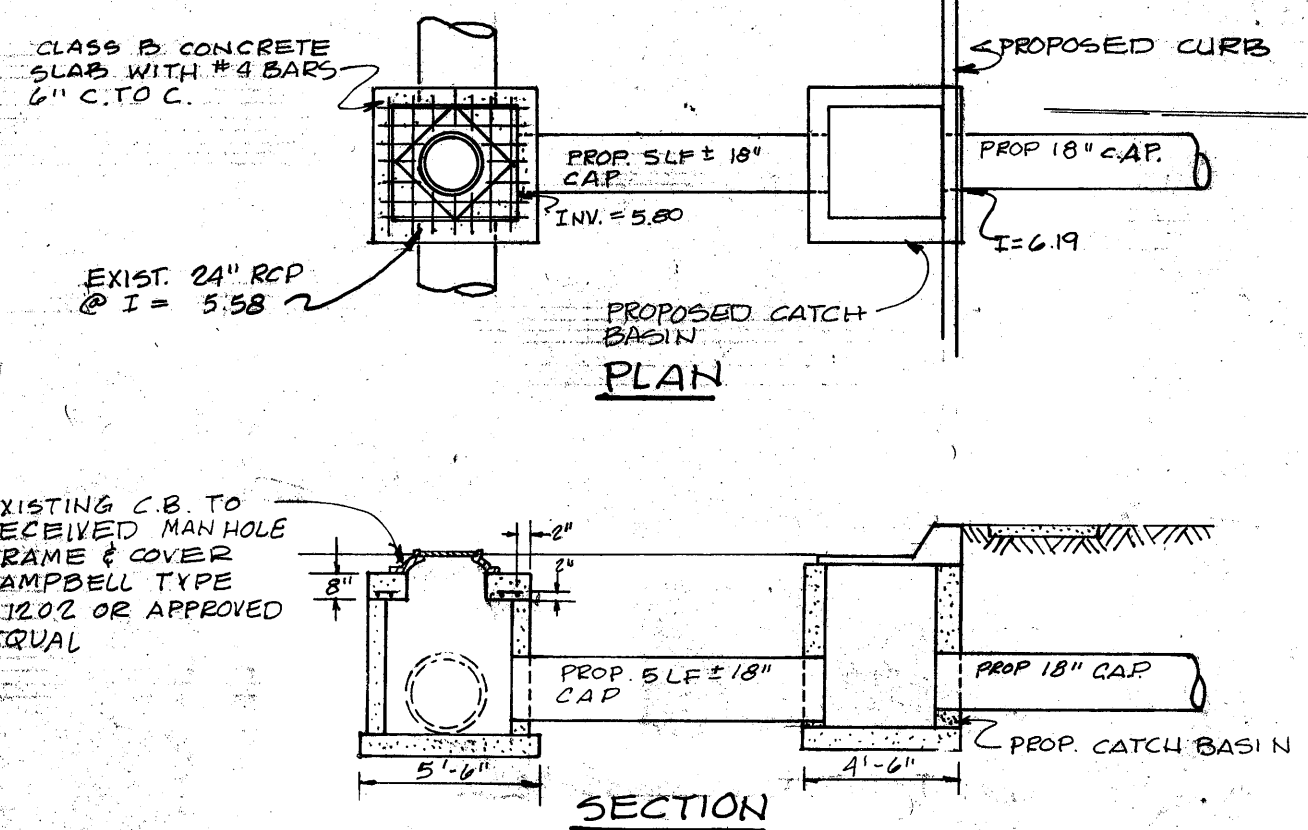
GRAPHIC SCALE

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1. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES TO BE IN ACCORDANCE WITH THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" NEW JERSEY REGULATORY 251 P.A. 1975 (N.J.A.C. 44:24-9.1) SEQ) AND THE APPLICANT SHALL POST THE PLAN IN A CONSPICUOUS AREA OF THE CONSTRUCTION SITE.
2. THE APPLICANT WILL NOTIFY THE SOIL CONSERVATION SERVICE DISTRICT OFFICE OF ANY EROSION OR SEDIMENTATION CONTROL MEASURES TO BE TAKEN IN WRITING AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION, OR PRIOR TO ANY EROSION OR SEDIMENTATION CONTROL MEASURES.
3. THE APPLICANT WILL NOTIFY THE SAME (NOTE 3) WITHIN 14 DAYS IMMEDIATELY FOLLOWING COMPLETION OF PROJECT.
4. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED PRIOR TO ANY MAJOR DISTURBANCE OF THE SOIL. PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
5. CLEARING LIMITED TO THOSE AREAS SPECIFIED IN THE CONSTRUCTION SCHEDULE AND TO BE COMPLETED AS SOON AS POSSIBLE, AND AS FAR AS POSSIBLE IN ORDER TO CONTROL EROSION AND SEDIMENTATION.
6. ALL DISTURBED AREAS THAT MAY BE LEFT EXPOSED FOR MORE THAN 30 DAYS AND ARE NOT TO BE USED FOR CONSTRUCTION TRAFFIC WILL IMMEDIATELY RECEIVE A TEMPORARY VEGETATIVE COVER OR PROTECTIVE MULCHING PER PERMANENT VEGETATIVE COVER OR PROTECTIVE MULCHING.
7. TOPSOIL SHALL BE STRIPPED TO A DEPTH OF 4 TO 6 INCHES IN AREAS OF CONSTRUCTION AND STOCKPILED, IF STOCKPILED FOR MORE THAN 30 DAYS.
8. STOCKPILED TOPSOIL SHALL BE COVERED WITH PERMANENT COVER, PROTECTIVE MULCHING, OR ENCIRCLED WITH STRAW AND HAY BALE.
9. PERMANENT VEGETATIVE COVER TO BE INSTALLED WITHIN 10 DAYS OF FINAL GRADING.

10. SOIL TYPES TO BE REMOVED & FILLED SOILS

1. Establish engineering and survey control.
2. Install construction access crushed stone sediment control.
3. Remove vegetation, refer to plan for limits of removal.
4. Install soil erosion sediment controls.
5. Strip and stockpile topsoil, roughgrade site.
6. Install underground utilities, concrete curbing, provide hay bale sedimentation control for inlets.
7. General building and site construction and install gravel sub base for drives and parking areas.
8. Final grading and install asphalt.
9. Install permanent vegetation mulching and landscape plantings.
10. Ensure all lawn areas have well established vegetation and site improvements are installed. Remove all remaining sedimental and erosion controls.



DETAILS FOR CONVERTED CATCH BASIN

NOTE:
1. SEE SHEET 1 OF 3 FOR TYPICAL
CONSTRUCTION OF CATCH BASIN, FRAME & GRATE
2. SET ELEVATION OF RIM OF COVER TO
MEET ROAD PROFILE.

APPROVED by the BRICK TOWNSHIP
PLANNING BOARD

CHAIRMAN: *Rayburn*

SECRETARY: E. Jean Kull

ENGINEER: Michael J. Kulianoff

DATE OF APPROVAL: April 10, 1988

Prepared under the supervision of

**SHEPHERD ENGINEERING
ASSOCIATES**

BRUCE A. SHEPHERD, P.E. 13841, P. R. 1079

MAR. 28, 1985	REV. PER BEICKTOWNSHIP PLANNING BD.	REM	
date	revision	by	ck.

SOIL EROSION & SEDIMENTATION CONTROL PLAN

LOT 17 BLOCK 547A
CONTAINING 4.413 ACRES
RETAIL STORES
♣ PROFESSIONAL OFFICE COMPLEX
TOWNSHIP OF BRICK, OCEAN COUNTY
NEW JERSEY

des. ics	date SEPT. 1984	scale 1"=40'
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