

# ROAD IMPROVEMENTS <br> BURNSIDE DRIVE TO U.S. ROUTE 40 <br> HOWARD COUNTY, MARYLAND 

DEPARTMENT OF PUBLIC wORKS
$00075 A 01$










HOWARD CO. \# 3040001



## HOWARD CO. \# 3140001 

## HowARD CO. \#3140002



## HowARD CO. \#3140005





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TRAVERSE STAKEOUT DATA

BENCHMARKS

 -$-$ $\square$ $\square$
$\square$

$\qquad$

1



GLASTONBURY PLACE

ducks foot lane


CULVERENE ROAD



DEPARTMENT OF PUBLIC WORKS



$\square$ CENTENNIAL LANE
STA. $135+50$ TO U.S. ROUTE 40
CAPTIA PROJECT J-40I5-II
ELECTON DSTRTCT NO.
HOWARD COUNTY, MARYYAND





DEPARTMENT OF PUBLIC WOR
HOWARD COUNTY, MARYLAND




DEPARTMENT OF PUBLIC WORK




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5

DRAINAGE AREA MAP
STA. $88+00$ TO STA. $137+50$ STA. $88+00$ TO STA. $137+50$
CENTENNIAL LANE CENTENNIAL LANE






## GENERAL NOTES

specifications.
SHA SPECIIIICATIINS DATED JANUARY 1988 , SUPPLEMENT TO
SPECIFITCATIONS DATEA
 RRVISIONS FDR MATERIALSD AND CONSTRUCTIION.
 REINEDRCED COLCRERTE DESIGN: SERVICE LDAD DESIGN METHUD, reinforcing steel desicin fs $=24,000$ Psi. HS 20-44
CONCRETE:
CHAMFER.
ALL CCICRETTE
PRDVISIDNS.

 einforcing steel shall canform to A.s.T.M. A-615 grade

 ONLY GRADE 60 CAN BE USED all keys are naminal size.


ELEVATION $\triangle L O N G$ CENTERLINE OF CULVERT

REFERENCES:
For sequence of Construction Notes And Detoils
See Dwa. No. 8.2 And Shaet No
2. For Chonnel Diversion see Sheet No. 26
3. For Safely Rail Details, See Ding No. $5: 3$
4. For typical Suction of Box Cilvert, see Dwg. No.s-2

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND



| ALVI ASSOCIATES, INC. CONSULTING ENGINEERSTOWSON, MARYLAND |
| :---: |
|  |  |
|  |  |


| OES:MSA |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| ORN:ACR |  |  |  |  |
| OHK:MSA |  |  |  |  |
| OATE:I2/90 | Br | NO. |  |  |

$\square$
$\qquad$ HOWARD COUNTY, MARYLAND


$\frac{\text { PLAN-INLET/ OUTLET }}{\text { Scale } \mathrm{V}_{4} \mathrm{~K}^{\prime \prime} \cdot \mathrm{O}^{\prime \prime}}$


ELEVATION - INLET/OUTLET



$\frac{\text { TYPICAL WINGWALL SECTION }}{\text { Scole: } 3 \text { " }=1 . O^{\circ}}$
$\underset{\substack{\text { S3. fall } \\ \text { steal frost }}}{ }$

SECTION $A-A$
SAFETY RAIL DETAIL

All railing, Posts and natar
shall be galvanized

DEPARTMENT OF PUBLIC WORK






CENTENNIAL LANE STATION $135+50$ TO U.S. ROUTE 40 ELECTION DISTRICT NO. 2

DWE NO.S-3

REFERENCES
For General Plan And Elevation, See Dwg. No. S-1
For Box Culvert Toe Wall Details, See Dwa. No. S-4
.For Headwall-Wingwall Joint Details, See Dwg. No. S-4

| 40 | scale stiow |
| :---: | :---: |
|  | Ster |

















FREDERICK ROAD






