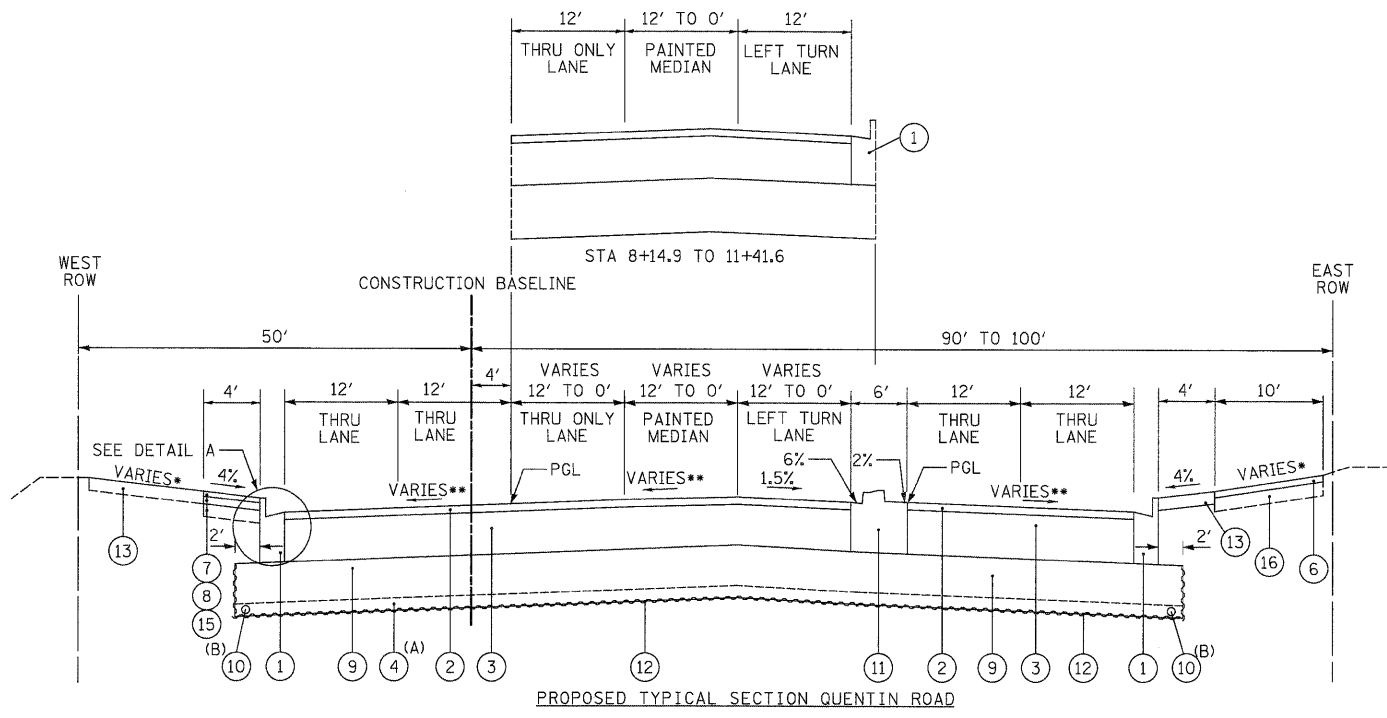


DATE	
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AREAS CHECKED	
FINAL SURVEY	
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ORIGINAL SURVEY	
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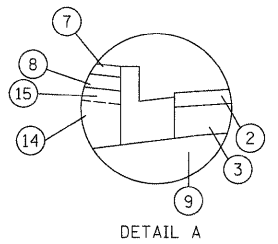
PROPOSED TYPICAL SECTION QUENTIN ROAD  
STA 7+00.0 TO STA 11+41.6

(A) SEE SOIL NOTE AND CROSS SECTION SHEETS FOR LOCATIONS AND DEPTH OF UNDERCUTTING  
(B) UNDER DRAINS AT THE OUTSIDE EDGE OF THE PAVEMENT DRAIN THE AGGREGATE SUBGRADE WITH TRANSVERSE UNDERDRAINS INSTALLED APPROXIMATELY EVERY 300 FT TO 500 FT, AT THE LOW POINTS OF THE PROFILE, AND AT ANY UNDERCUTS DETERMINED IN THE FIELD.

DESIGN DESIGNATION:  
QUENTIN ROAD 2720 (32) MAJOR COLLECTOR 1.43 (B-20)

LCDOT FLEXIBLE PAVEMENT DESIGN:  
DATE = 5/16/2008  
PROJECT = QUENTIN ROAD  
YEAR OF ADT = 2004  
ADT = 17,000  
ANNUAL GROWTH PERCENTAGE (NON-COMPOUNDED) = 1%  
GROWTH = 1% PER YEAR x DESIGN PERIOD x ADT = 3378  
SPECIAL ADJUSTMENTS FOR KNOWN DEVELOPMENT, ETC. = 0  
DESIGN PERIOD IN YEARS = 20  
CONSTRUCTION YEAR = 2012  
STRUCTURAL DESIGN TRAFFIC (SDT) = 20060  
PC = 96.75% = 19408  
SU = 2.25% = 451  
MU = 1.00% = 201  
LOAD LIMIT (73,280 STANDARD) OR 80,000 = 80,000  
CLASS ROAD (1,2,3,4) = 1  
SUBGRADE SUPPORT RATING = POOR  
FLEXIBLE TRAFFIC FACTOR (TF) = 1.42764011  
SELECTED DESIGN AC TYPE = PG 64-22 (OLD AC-10)  
DESIGN AC MIXTURE TEMPERATURE (DEGREES F) = 76  
DESIGN BITUMINOUS CONCRETE MODULES = 650  
DESIGN AC MICROSTRAIN = 104  
PAVEMENT THICKNESS REQUIRED (INCHES) = 10.5  
SUBGRADE = 12

- PROPOSED LEGEND
- ① PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
  - ② PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
  - ③ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 8-1/2"
  - ④ PROPOSED REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND PROPOSED P.G.E. SUBGRADE
  - ⑤ NUMBER NOT USED
  - ⑥ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 3"
  - ⑦ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2"
  - ⑧ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/2"
  - ⑨ PROPOSED AGGREGATE SUBGRADE, 12"
  - ⑩ PROPOSED PIPE UNDERDRAINS, 4" (MODIFIED)
  - ⑪ PROPOSED CONCRETE MEDIAN, TYPE SB-6.24 (MODIFIED)
  - ⑫ PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
  - ⑬ PROPOSED FURNISH AND PLACE TOPSOIL, 4" (SEE LANDSCAPING SHEETS FOR LIMITS)
  - ⑭ PROPOSED FURNISHED EXCAVATION
  - ⑮ PROPOSED AGGREGATE BASE COURSE, TYPE A, 4"
  - ⑯ PROPOSED AGGREGATE BASE COURSE, TYPE A, 6"
- \* SLOPE AWAY FROM ROAD IN FILL SECTIONS SLOPE TOWARD ROAD IN CUT SECTIONS  
\*\* SEE PREVIOUS SHEET FOR SUPERELEVATION STATIONING AND ELEVATIONS



SOILS NOTE:  
POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN PROVIDED AT THE LOCATIONS INDICATED FOR SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE MANUAL). IF UNSTABLE SOILS ARE ENCOUNTERED, THE SOILS SHALL BE REMOVED AND REPLACED WITH PGES. IF UNSTABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY WILL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.

THE LIMITS OF UNSTABLE SOILS ARE AT THE APPROXIMATE LOCATIONS AS FOLLOWS:

STA TO STA	ESTIMATED UNDERCUT BELOW DESIGN SUBGRADE
6+09 TO 8+78	12" FOR FULL WIDTH