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|-------------|--|
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| LEGEND | |
|---------------------------|--------|
| EXISTING CONTOUR | 136 |
| PROPOSED CONTOUR | 136 |
| EXISTING FENCE | X |
| PROPERTY LINE | --- |
| EX. GAS LINE | --- |
| EX. PAVING TO BE REMOVED | --- |
| EX. CURB, TO BE REMOVED | --- |
| PROPOSED SIDEWALK | 5' S/W |
| PROPOSED INLET (TYPE WR) | --- |
| PROPOSED INLET (TYPE A-5) | --- |

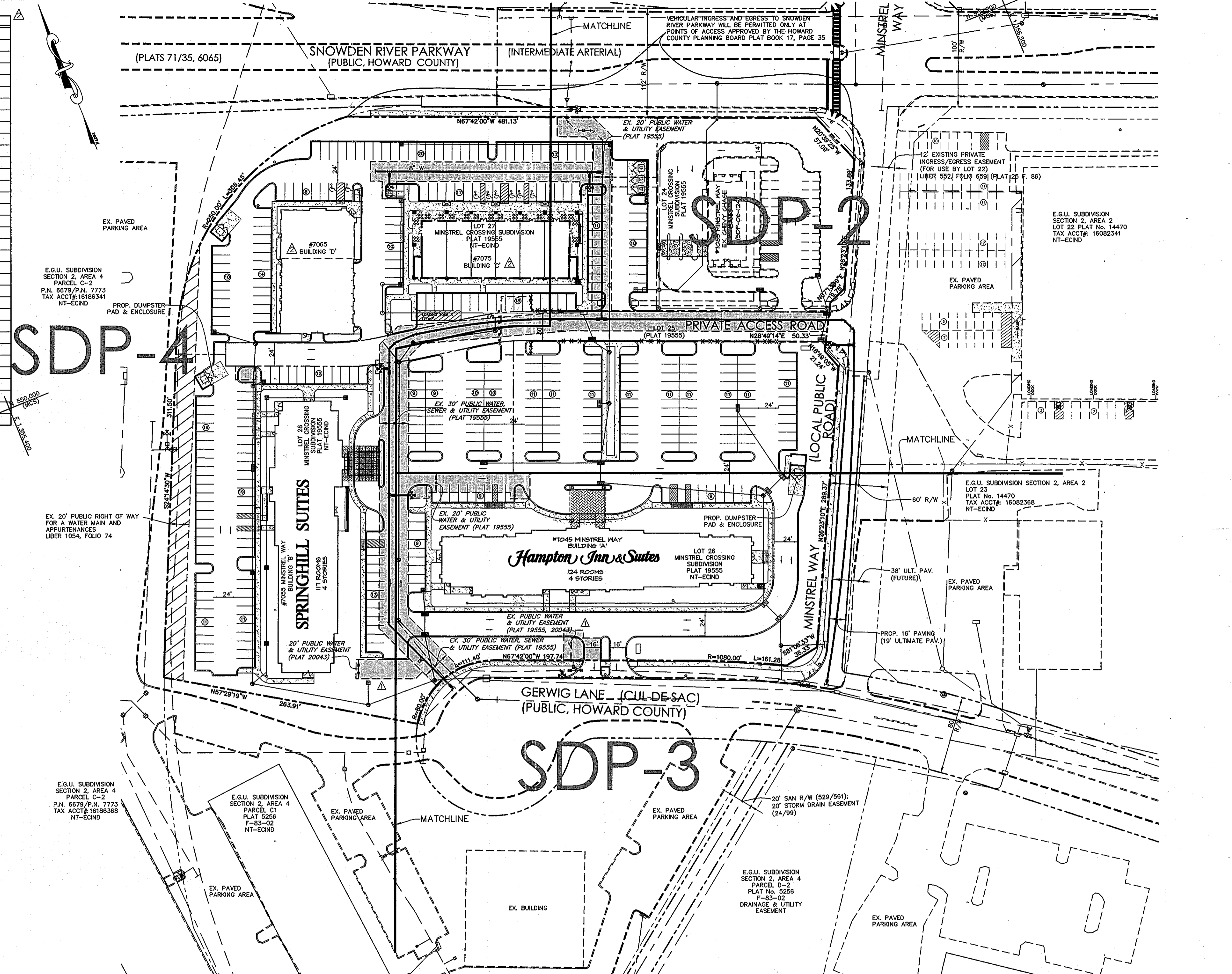
GENERAL NOTES (CONTINUED):

- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1993)". A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREETLIGHT AND ANY TREE.
- ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MAINTAINED ON A 2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2"-3" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE)-3" LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
- ALL ON-SITE PAVING TO BE HEAVY DUTY PAVING SECTION (P-4) UNLESS OTHERWISE SPECIFIED (SEE DETAILS, SHEET SDP-15).
- FOR COVENANTS, CONDITIONS AND RESTRICTIONS RELATING TO PRIVATE ROAD ACCESS AND ANY OTHER RESTRICTIVE ITEMS SEE THE DECLARATION ESTABLISHING "MINSTREL CROSSING LAND CONDOMINIUM", RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER M.D.R. 10574, FOLIO 502 AND THE FIRST AMENDMENT TO THE DECLARATION RECORDED IN LIBER M.D.R. 10638, FOLIO 203 AND THE SECOND AMENDMENT TO THE DECLARATION RECORDED IN LIBER M.D.R. 10710, FOLIO 506. ALL LOTS SHOWN HEREON WILL SHARE ACCESS AND PARKING BASED ON THE ABOVE REFERENCED DECLARATIONS.
- A KNOX BOX IS TO BE PLACED WITHIN 6' TO THE RIGHT OF MAIN ENTRANCE OF BUILDINGS. THE KNOX BOX SHALL BE PLACED ON THE BUILDING AT A HEIGHT OF 4'-5". THE BOX SHALL BE INTEGRATED WITH THE FIRE ALARM SYSTEM.
- THE REQUIRED APPROVED PUBLIC ROAD MITIGATION FOR THIS PLAN HAS BEEN MET BY THE FOLLOWING:
 - A FEE-IN-LIEU PAYMENT FOR IMPROVEMENTS TO PATUXENT WOODS DRIVE AT BROKEN LAND PARKWAY.
 - A FEE-IN-LIEU OF CONSTRUCTION PAID FOR THE REMAINING 3' WIDE STRIP OF MINSTREL WAY ALONG THE WESTERN HALF OF MINSTREL WAY DOWN TO GERWIG LANE, THIS COMPLETING THE DEVELOPER'S HALF OF MINSTREL WAY UPON ACQUISITION OF THE FULL MINSTREL WAY RIGHT-OF-WAY BY HOWARD COUNTY.
 - PLANS FOR MODIFICATIONS TO THE CARVED STONE INTERSECTION AT SNOWDEN RIVER PARKWAY ARE ALSO PART OF THIS PLAN SET FOR PURPOSES OF APPROVED REQUIREMENTS.
- IF THE FULL 60' RIGHT-OF-WAY FOR MINSTREL WAY IS OBTAINED BY HOWARD COUNTY WITHIN TWO YEARS OF SIGNATURE OF THIS SDP, THE DEVELOPER WILL CONSTRUCT THE FULL MINSTREL WAY TO ITS ULTIMATE CONDITIONS, THIS SATISFYING ALL APPROVED REQUIREMENTS AND THE DEVELOPER SHALL BE RELIEVED OF THE REQUIREMENT FOR APPROVED IMPROVEMENTS WITH RESPECT TO ITEMS A-C ABOVE.
- LANDSCAPE SURETY IN THE AMOUNT OF \$48,390.00 HAS BEEN POSTED AS A PART OF THE DEVELOPER'S AGREEMENT.
- REDLINE REVISION NO. 2 WAS APPROVED BY THE HOWARD COUNTY PLANNING BOARD ON MAY 24, 2012.

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE 04/10/2008 AND 05/24/2012

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. 16019, EXPIRATION DATE 5/8/2014.

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
LICENSE NO. 16019



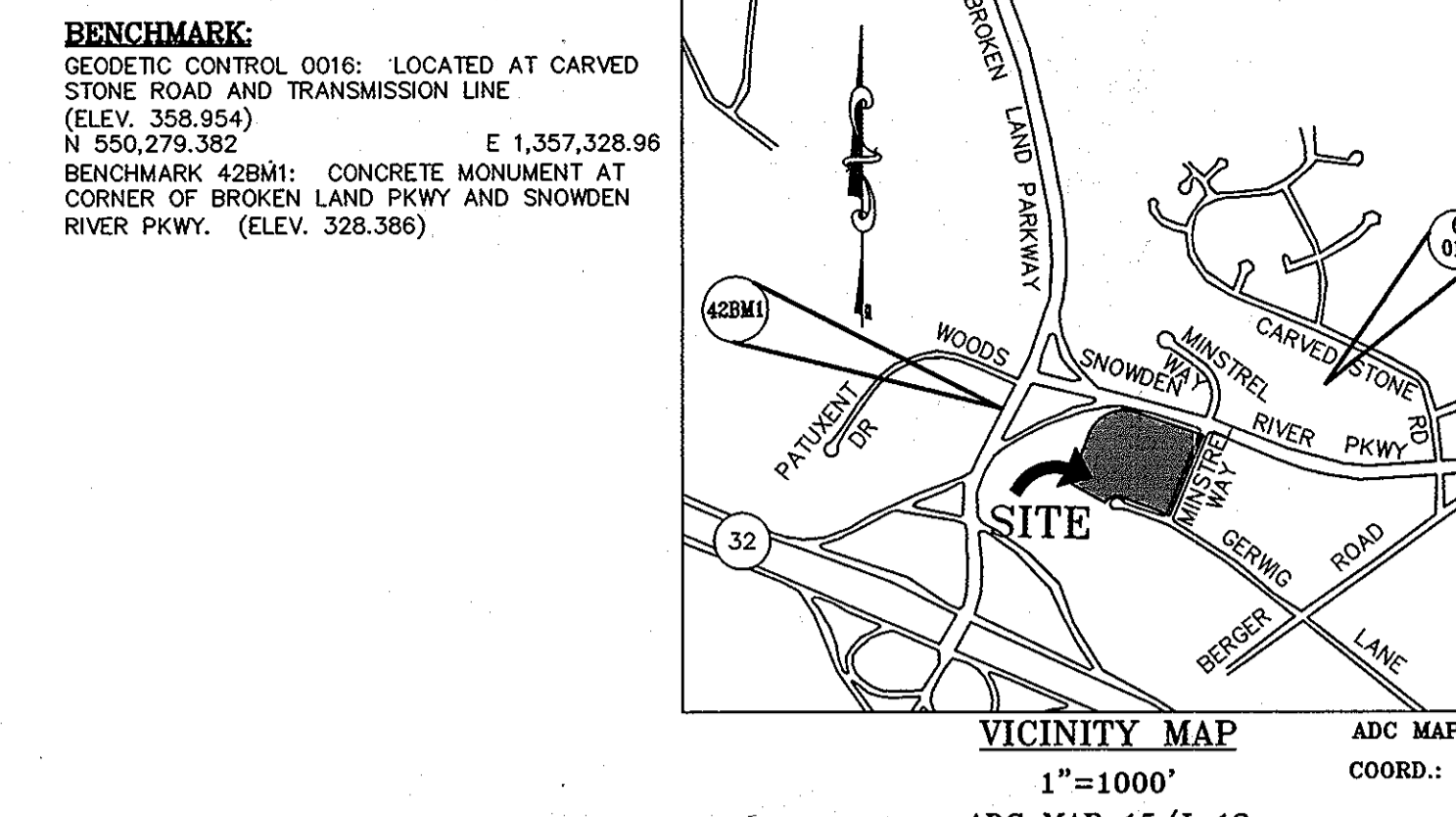
SDP-3

PLAN SCALE: 1"=60'

GENERAL NOTES (CONTINUED):

- STORMWATER MANAGEMENT FOR THE EXISTING IMPERVIOUS SURFACE IS TREATED IN AN EXISTING FACILITY SOUTH OF GERGER ROAD (PLAT 5258). THE PROPOSED ON-SITE IMPERVIOUS SURFACE WILL BE TREATED AS REDEVELOPMENT AS OUTLINED ON F-07-114 (PLAT 19555). AS PER THE 2000 MD SIM DESIGN MANUAL, SIM IS NOT REQUIRED WHEN SITE IMPERVIOUS IS REDUCED BY 20%.
- EXISTING UTILITIES ARE BASED ON HOWARD COUNTY GIS DATA, FIELD VERIFICATION, AND APPROVED CONSTRUCTION DRAWINGS.
- THERE IS NO FLOODPLAIN ON THIS SITE.
- THERE ARE NO KNOWN WETLANDS ON THIS SITE.
- THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP, INC., DATED MAY 17, 2007, AND WAS APPROVED ON JULY 2, 2007.
- THERE ARE NO KNOWN GRAVESITES, BURIAL GROUNDS OR CEMETERIES ON THIS SITE.
- ALL OUTDOOR LIGHTING SHALL COMPLY WITH THE REQUIREMENTS OF ZONING SECTION 134.
- IN ACCORDANCE WITH SUBDIVISION SECTION 16.1202(b)(1)(iv), THIS PLAN IS EXEMPT FROM COMPLIANCE WITH THE REQUIREMENTS OF THE FOREST CONSERVATION ACT BECAUSE LOTS 7, 8 AND PARCELS A-B ARE PART OF A PLANNED UNIT DEVELOPMENT WHICH HAD PRELIMINARY DEVELOPMENT APPROVAL AND 50% OR MORE OF THE LAND WAS RECORDED AND SUBSTANTIALLY DEVELOPED BEFORE DECEMBER 31, 1992.

| APPROVED: | OWNER: | DEVELOPER: |
|-----------------------------------|--|--|
| DEPARTMENT OF PLANNING AND ZONING | SNOWDEN ROCK, LLC; TRANSITION ROCK, LLC; PILL ROCK, LLC | H&H ROCK 6800 DEERPATH ROAD SUITE 100 ELKCRIDGE, MD 21075 410-579-2442 |
| DATE 04/10/2008 AND 05/24/2012 | OTO ROCK, LLC; COLEMAN ROCK, LLC C/O OTO DEVELOPMENT 961 E. MAIN STREET SPARTANBURG, SC 29302 864-327-4035 | CHEVY CHASE BANK, F.S.B. 7501 WISCONSIN AVENUE, 9TH FLR BETHESDA, MD 20814 240-497-7032 |



GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) (SEE DETAILS MD-104.04.01 & MD-104.04.05, SHEETS SDP-16). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. THE SUBJECT PROPERTY IS ZONED NT (NEW TOWN), EC, IND/FDP-55 FOR LOTS 8-24 AND EC, IND/FDP-99A PART I FOR PARCELS A-B PER THE 02/02/04 COMPREHENSIVE ZONING PLAN.
- EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY DATA WITH MAXIMUM 1' CONTOUR INTERVALS PREPARED BY LITTL & ASSOCIATES, INC. DATED NOVEMBER, 2006.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM, HOWARD COUNTY MONUMENT NOS. GC 0016 AND 428M1 WERE USED FOR THIS PROJECT.
- WATER IS PUBLIC (315-W&S). SEWER IS PUBLIC (315-W&S).

SITE ANALYSIS DATA CHART

A) TOTAL PROJECT AREA: 8.697 AC (LOTS 24, 25, 26, 27 & 28)

B) AREA OF PLAN SUBMISSION: 8.697 AC (LOTS 24-28)

C) LIMIT OF DISTURBANCE: 8.5 AC±

D) PRESENT ZONING DESIGNATION: NT (NEW TOWN); EC, IND/FDP 99A PART I LOTS 24, 26, P/O 25

E) PROPOSED USE(S): HOTELS, RETAIL, CONVENIENCE STORE, RESTAURANT, VEHICLE SERVICE

F) PROPOSED FLOOR SPACE: 160,138 SF± (HAMPTON INN = 70,623; SPRINGHILL SUITES = 68,035; BUILDING D = 11,480; BUILDING C = 0)

G) PARKING SPACES REQUIRED: 375 P.S.

H) PARKING SPACES PROVIDED: 254 SPACES (10 H/C), 22 SPACES (3 H/C), 89 SPACES (6 H/C), 42 SPACES (2 H/C)

I) BUILDING COVERAGE OF SITE: 1.48 AC± OR 17.00% OF PROJECT AREA

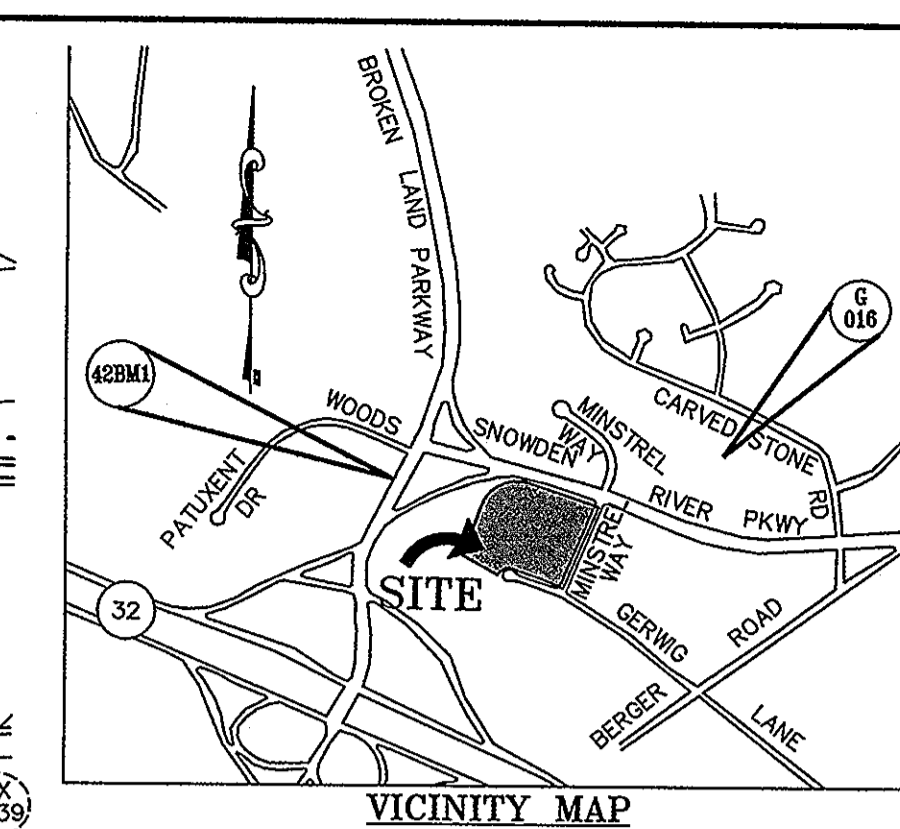
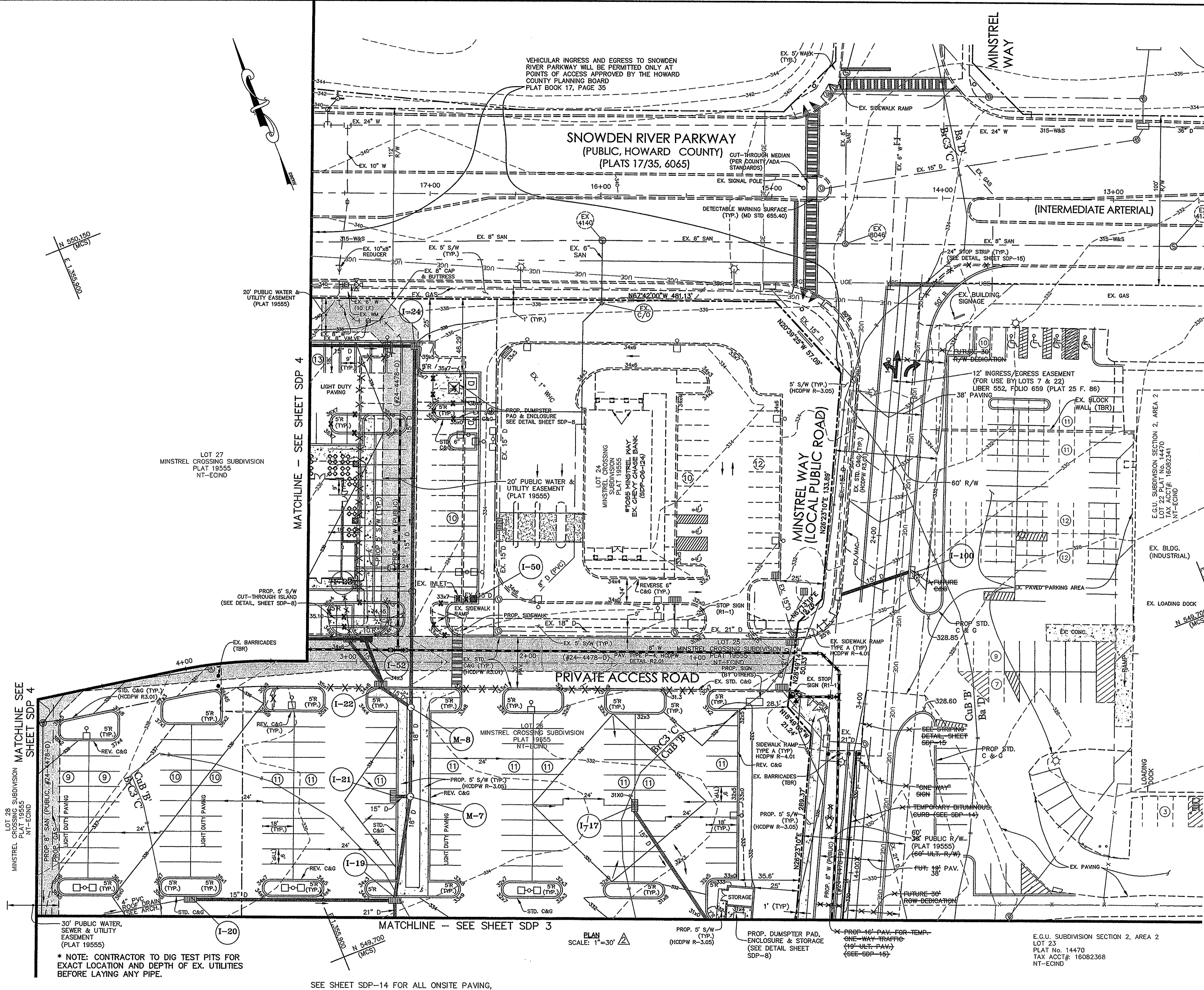
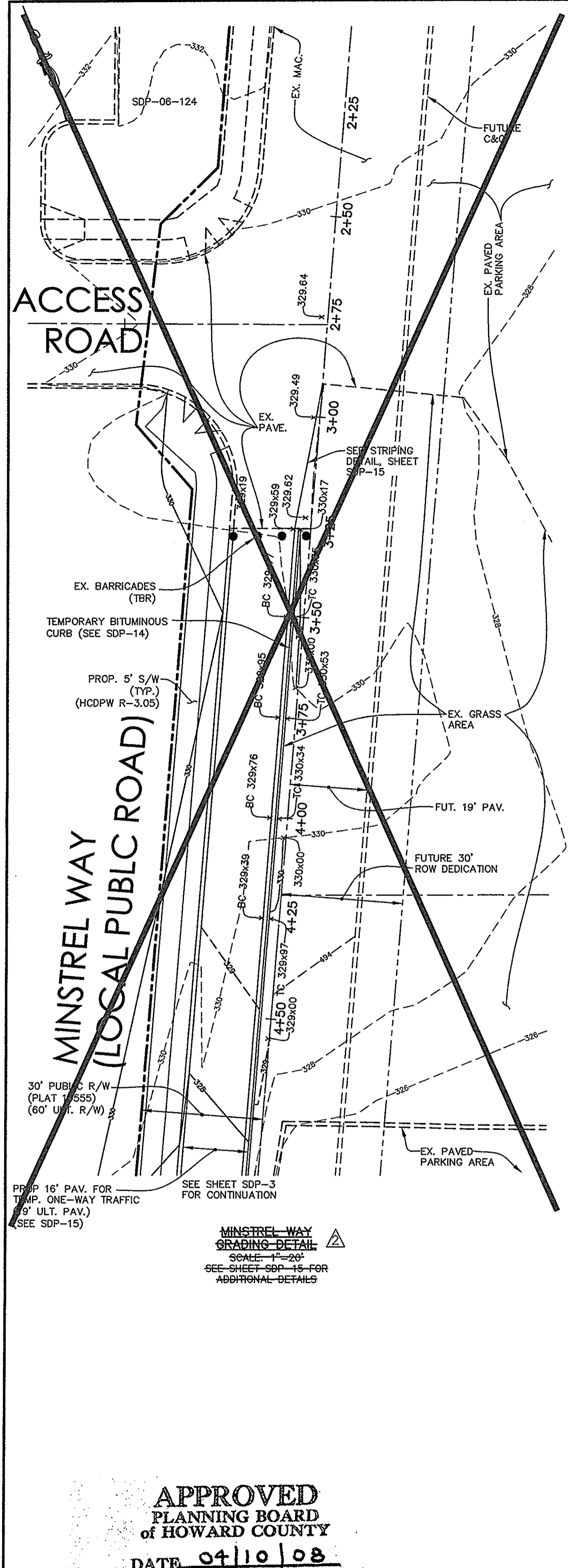
J) DPZ FEE REFERENCES: SDP-06-124, SDP-01-1670, SDP-72-516, FDP PHASE 99A PART 1, (P 3054A PP 745-747), FDP PHASE 55 (P 16, F 118-121), F-69-026, F-73-054, F-07-114 (P 19555), F-08-184 (20043), F-07-133 (VOIDED), 22073

| ADDRESS CHART | |
|------------------|-------------------|
| LOT 26, BLDG A | 7045 MINSTREL WAY |
| LOT 26, BLDG B | 7045 MINSTREL WAY |
| LOT 27, BLDG C | 7075 MINSTREL WAY |
| LOT 27, BLDG D | 7075 MINSTREL WAY |
| LOT 24, EX. BANK | 7065 MINSTREL WAY |
| LOT 27, BLDG D | 7065 MINSTREL WAY |

| PERMIT INFORMATION CHART | | | |
|--------------------------|--------------|----------------|---------------------------|
| SUBDIVISION NAME | SECTION/AREA | LOT/PARCEL NO. | LOTS 24 - 28 |
| MINSTREL CROSSING | N/A | | |
| PLAT # OR L/P | ZONING | TAX MAP NO. | ELCCT. DIST. CENSUS TRACT |
| 17/35, 24/99 | 3&9 | NT-EC, IND | 42 6 6067.03 |
| PLAT 19555, 20043 | | | |
| WATER CODE | SEWER CODE | | |
| E12 | 5272200 | | |

TITLE SHEET
REVISED **SDP-07-078**
MINSTREL CROSSING II
MINSTREL CROSSING SUBDIVISION
LOTS 24 THROUGH 28

ELECTION DISTRICT 6 HOWARD COUNTY, MD
PLAT REF. 19555, 17/35, 24/99, 20043 M 42 G 3, 9 P 375, 399
SCALE: AS SHOWN MAY 29, 2008
DRG NO.: SDP-1 SHEET 1 OF 32



VICINITY MAP
1"=1000'

BENCHMARK:
GEODETIC CONTROL 0018: LOCATED AT CARVED STONE ROAD AND TRANSMISSION LINE (ELEV. 358.954)
N 550,275.392 E 1,357,328.96
BENCHMARK 428M1: CONCRETE MONUMENT AT CORNER OF BROKEN LAND PKWY AND SNOWDEN RIVER PKWY. (ELEV. 328.396)

LEGEND

| | |
|---|-----------|
| EXISTING CONTOUR | — 136 |
| PROPOSED CONTOUR | — 136 |
| EXISTING FENCE | — X |
| PROPERTY LINE | — X |
| EX. GAS LINE | — X |
| EX. PAVING TBR | — X |
| PROPOSED LIGHTING (PRIVATE) (SEE SCHEDULE, SHEET SDP-15) | □ |
| PROPOSED LIGHTING (PUBLIC) (SEE SCHEDULE, SHEET SDP-15) | ⊙ |
| EX. CURB, TO BE REMOVED | — X |
| PROPOSED SIDEWALK | — X |
| PROPOSED INLET (TYPE WR) | □ |
| PROPOSED INLET (TYPE A-5) | □ |
| PROPOSED WATER HOUSE CONNECTION (PRIVATE) | — |
| PROPOSED SEWER HOUSE CONNECTION (PRIVATE) | — |
| PROPOSED STORM DRAIN | — |
| UNDERGROUND ELECTRIC | — |
| PROP. WATER (PUBLIC) | — |
| PROP. SAN (PUBLIC) | — |
| PROP. SPOT ELEVATION | 324x62 |
| PROP. TOP CURB ELEVATION | TC 323x91 |
| PROP. BOTTOM CURB ELEVATION | BC 324x32 |
| EX. SPOT ELEVATION | 322.91 |

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 04/10/08

* NOTE: CONTRACTOR TO DIG TEST PITS FOR EXACT LOCATION AND DEPTH OF EX. UTILITIES BEFORE LAYING ANY PIPE.

SEE SHEET SDP-14 FOR ALL ONSITE PAVING, CURB & GUTTER, AND SIDEWALK DETAILS.

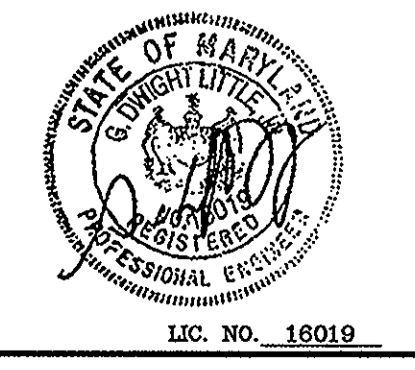
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16019, EXPIRATION DATE 5/8/2010.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT PLANNING DIVISION
DATE 5/6/08

CHIEF DIVISION OF LAND DEVELOPMENT
DATE 5/6/08

DIRECTOR
DATE 5/8/08



LITTLE & ASSOCIATES, INC.
ENGINEERS~LAND PLANNERS~SURVEYORS
1055 TAYLOR AVENUE, SUITE 307
TOWSON, MARYLAND 21286
PHONE: (410)296-1636 FAX: (410)296-1639

OWNER:
SNOWDEN ROCK, LLC; OTO ROCK, LLC; COLEMAN ROCK, LLC
TRANSITION ROCK, LLC; PILL ROCK, LLC
C/O H&H ROCK
6800 DEERPATH ROAD
ELKCRIDGE, MD 21075
410-579-2442

CHEVY CHASE BANK, F.S.B.
7501 WISCONSIN AVENUE, 9TH FLR
BETHESDA, MD 20814
240-497-7032

DEVELOPER:
H&H ROCK
6800 DEERPATH ROAD
SUITE 100
ELKCRIDGE, MD 21075
410-579-2442

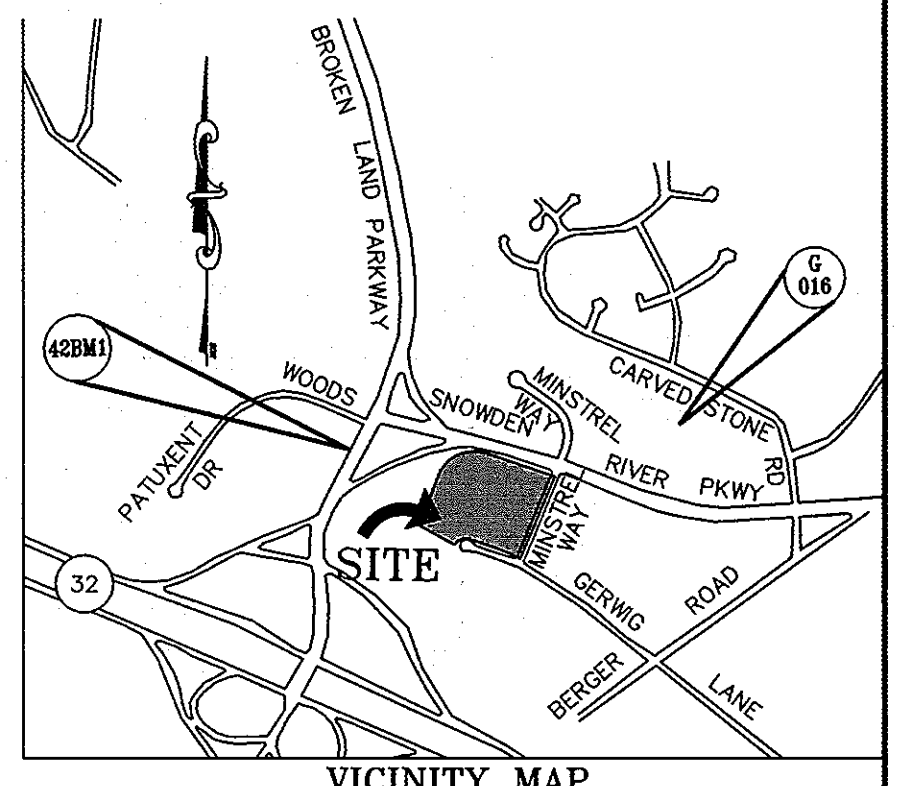
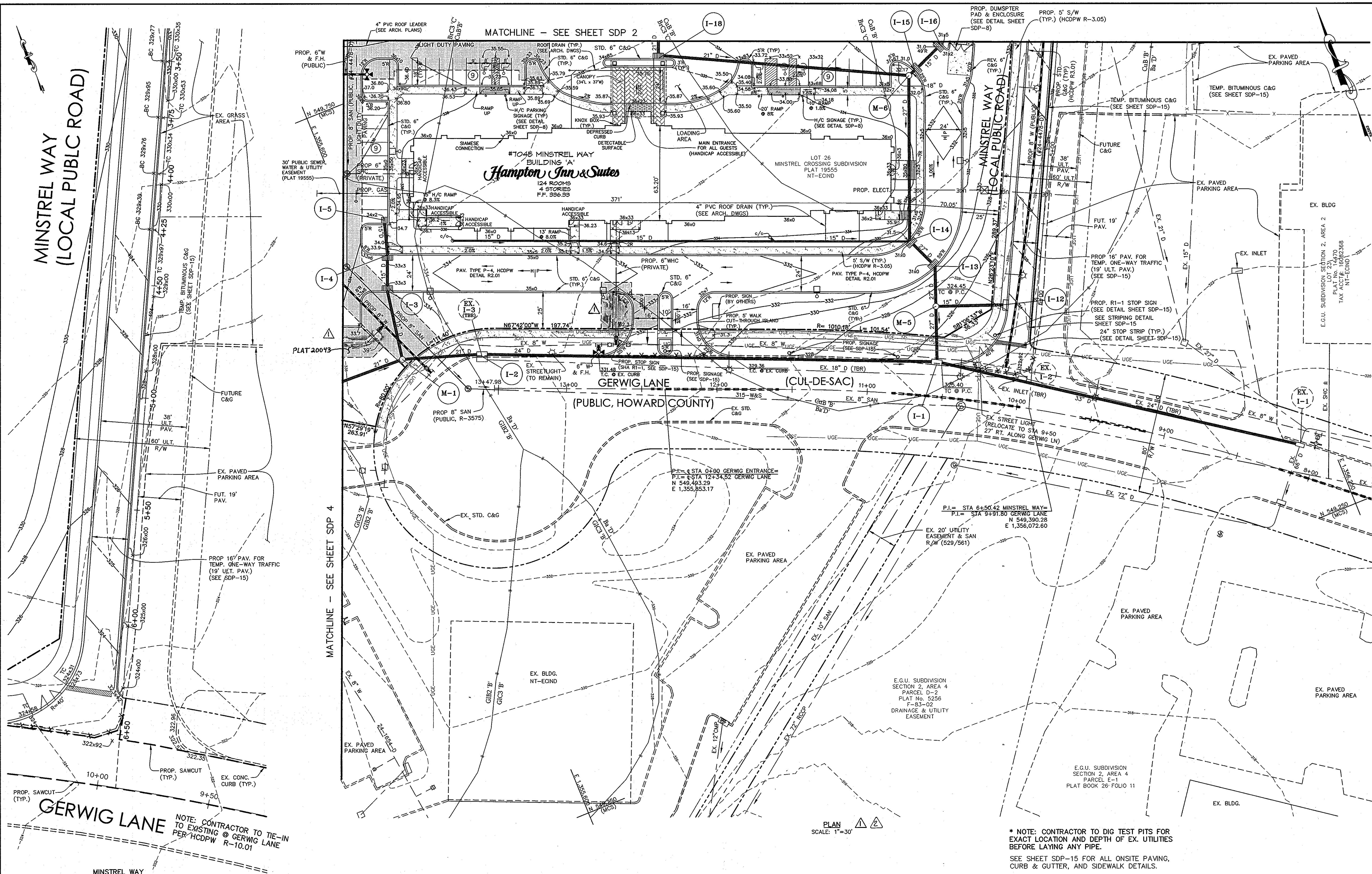
| NO. | REVISION | DATE |
|-----|---------------------------------|-------|
| 1 | ADDED BUILDINGS 'C' AND 'D' | 11/11 |
| 2 | ADDED MINSTREL WAY IMPROVEMENTS | 11/11 |

SITE DEVELOPMENT PLAN-1
SDP-07-078
MINSTREL CROSSING II
MINSTREL CROSSING SUBDIVISION
LOTS 24 THROUGH 28

ELECTION DISTRICT 6
PLAT REF. 19555, 17/35 & 24/99
SCALE: AS SHOWN
DRG NO.: SDP-2

HOWARD COUNTY, MD
M 42 G 3, P 375, 399
MAY 16, 2008
SHEET 2 OF 29 31

MINSTREL WAY
(LOCAL PUBLIC ROAD)



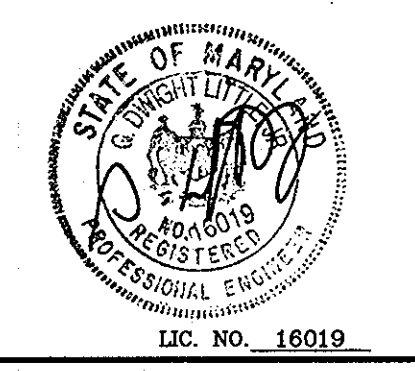
- BENCHMARK:**
 GEODETIC CONTROL 0016: LOCATED AT CARVED STONE ROAD AND TRANSMISSION LINE (ELEV. 358.954) N 550,279.382 E 1,357,328.96
 BENCHMARK 428M1: CONCRETE MONUMENT AT CORNER OF BROKEN LAND PKWY AND SNOWDEN RIVER PKWY. (ELEV. 328.596)
- LEGEND**
- EXISTING CONTOUR 136
 - PROPOSED CONTOUR 136
 - EXISTING FENCE X
 - PROPERTY LINE
 - EX. GAS LINE
 - PROPOSED LIGHTING (PRIVATE) (SEE SCHEDULE, SHEET SDP-15)
 - PROPOSED LIGHTING (PUBLIC) (SEE SCHEDULE, SHEET SDP-15)
 - EX. CURB, TO BE REMOVED
 - PROPOSED SIDEWALK 5' S/W
 - PROPOSED INLET (TYPE WR)
 - PROPOSED INLET (TYPE A-5)
 - PROPOSED WATER HOUSE CONNECTION (PRIVATE)
 - PROPOSED SEWER HOUSE CONNECTION (PRIVATE)
 - PROPOSED STORM DRAIN
 - UNDERGROUND ELECTRIC UGE
 - PROP. WATER (PUBLIC)
 - PROP. SAN (PUBLIC)
 - PROP. SAWCUT
 - PROP. SPOT ELEVATION 324x62
 - PROP. TOP CURB ELEVATION TC 323x91
 - PROP. BOTTOM CURB ELEVATION BC 324x32
 - EX. SPOT ELEVATION 322.91

| BY | No. | REVISION | DATE |
|-----|-----|---|---------|
| LAI | | ADDED BUILDINGS C/T, ADDED SHEETS 30-32 | 10/2012 |
| LAI | | REMOVED OUTSIDE W/M VALVES, USE INTERNAL WATER METERS | 8/2010 |

MINSTREL WAY GRADING DETAIL
 SCALE: 1"=20'
 SEE SHEET SDP-15 FOR ADDITIONAL DETAILS

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APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF DEVELOPMENT ENGINEERING DIVISION
 DATE 8/10/08
 CHIEF DIVISION OF LAND DEVELOPMENT
 DATE 8/18/08
 DIRECTOR



LITTLE & ASSOCIATES, INC.
 ENGINEERS--LAND PLANNERS--SURVEYORS
 1055 TAYLOR AVENUE, SUITE 307
 TOWSON, MARYLAND 21286
 PHONE: (410)296-1636 FAX: (410)296-1639

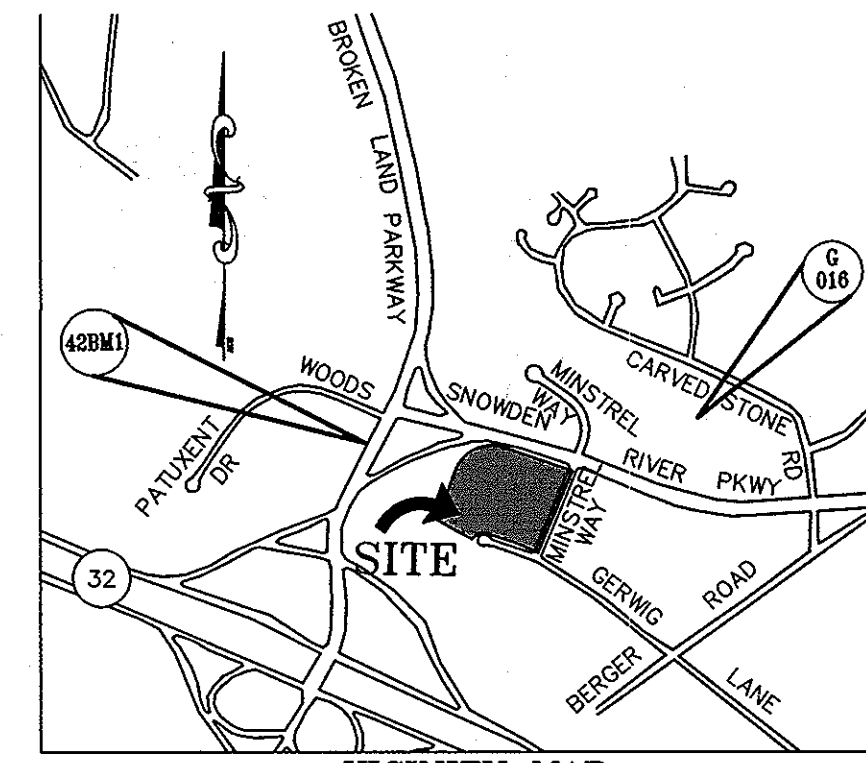
OWNER:
 SNOWDEN ROCK, LLC; OTO ROCK, LLC; COLEMAN ROCK, LLC
 TRANSITION ROCK, LLC; PILL ROCK, LLC
 C/O H&H ROCK C/O OTO DEVELOPMENT
 6800 DEERPATH ROAD 961 E. MAIN STREET
 ELKBRIDGE, MD 21075 SPARTANBURG, SC 29302
 410-579-2442 864-327-4035

DEVELOPER:
 H&H ROCK
 6800 DEERPATH ROAD SUITE 100
 ELKBRIDGE, MD 21075
 410-579-2442

CHEVY CHASE BANK, F.S.B.
 7501 WISCONSIN AVENUE, 9TH FLR
 BETHESDA, MD 20814
 240-497-7032

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 04/10/08

SITE DEVELOPMENT PLAN-2
 REVISED SDP-07-078
MINSTREL CROSSING II
 MINSTREL CROSSING SUBDIVISION
 LOTS 24 THROUGH 28
 ELECTION DISTRICT 6 HOWARD COUNTY, MD
 PLAT REF. 19555, 17/35 & 24/99, 20013 M 42 G 3, 9 P 375, 399
 SCALE: AS SHOWN MAY 16, 2008
 DRG NO.: SDP-3 SHEET 3 OF 32

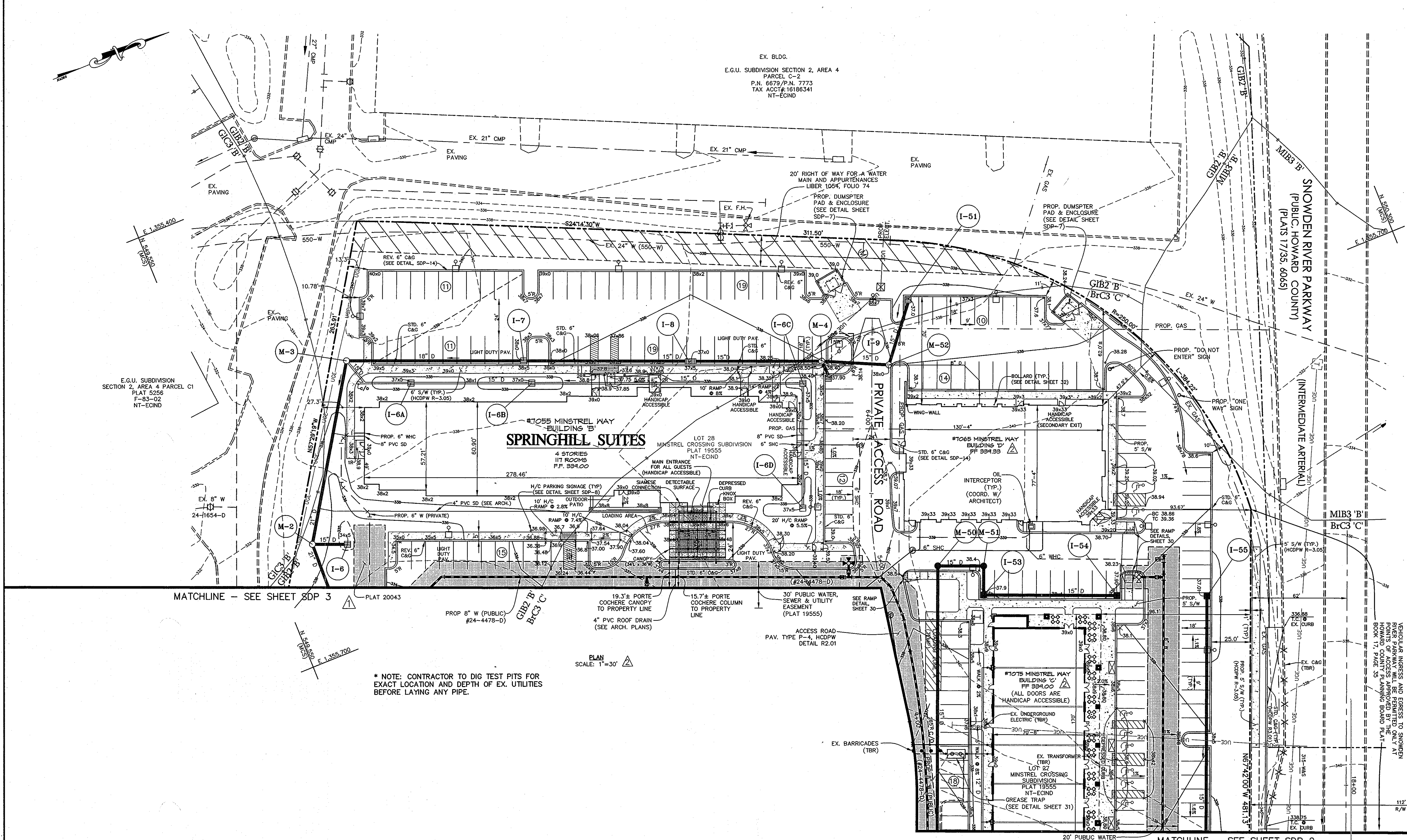


VICINITY MAP
1"=1000'

BENCHMARK:
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 N 550,279.582 E 1,357,328.96
 BENCHMARK 428M1: CONCRETE MONUMENT AT CORNER OF BROKEN LAND PKWY AND SNOWDEN RIVER PKWY. (ELEV. 328.386)

LEGEND

| | |
|---|---------------|
| EXISTING CONTOUR | --- 136 --- |
| PROPOSED CONTOUR | --- 136 --- |
| EXISTING FENCE | - - - - - |
| PROPERTY LINE | — — — — — |
| EX. GAS LINE | — — — — — |
| PROPOSED LIGHTING (PRIVATE) (SEE SCHEDULE, SHEET SDP-15) | □ |
| EX. CURB, TO BE REMOVED | — X — X — X — |
| PROPOSED SIDEWALK | 5' S/W |
| PROPOSED INLET (TYPE WR) | ▣ |
| PROPOSED INLET (TYPE A-5) | □ |
| PROPOSED WATER HOUSE CONNECTION (PRIVATE) | — — — — — |
| PROPOSED SEWER HOUSE CONNECTION (PRIVATE) | — — — — — |
| PROPOSED STORM DRAIN | — — — — — |
| EX. PAVING TBR | ▨ |
| UNDERGROUND ELECTRIC | — UGE — |
| PROP. WATER (PUBLIC) | — — — — — |
| PROP. SAN (PUBLIC) | — — — — — |
| DUMPSTER LOCATION | □ |
| OUTDOOR TABLE | ⊗ |
| TRANSFORMER | ⊠ |



APPROVED
PLANNING BOARD OF HOWARD COUNTY

DATE 04/10/2008 AND 05/24/2008

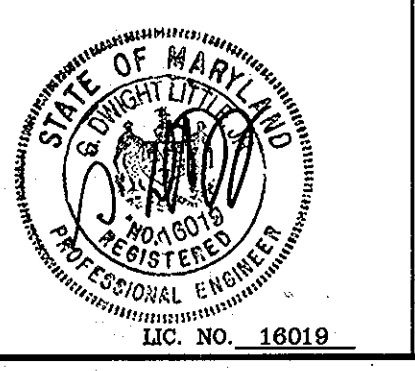
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APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE 11/30/12

CHIEF, DIVISION OF LAND DEVELOPMENT
DATE 12/11/12

DIRECTOR
DATE 12/14/12



LITTLE & ASSOCIATES, INC.
ENGINEERS~LAND PLANNERS~SURVEYORS
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OWNER:
SNOWDEN ROCK, LLC; TRANSITION ROCK, LLC; PILL ROCK, LLC
OTO ROCK, LLC; COLEMAN ROCK, LLC
C/O OTO DEVELOPMENT
961 E. MAIN STREET
SPARTANBURG, SC 29302
864-327-4035

CHEVY CHASE BANK, F.S.B.
7501 WISCONSIN AVENUE, 9TH FLR
BETHESDA, MD 20814
240-497-7032

DEVELOPER:
H&H ROCK
6800 DEERPATH ROAD
SUITE 100
ELKBRIDGE, MD 21075
410-579-2442

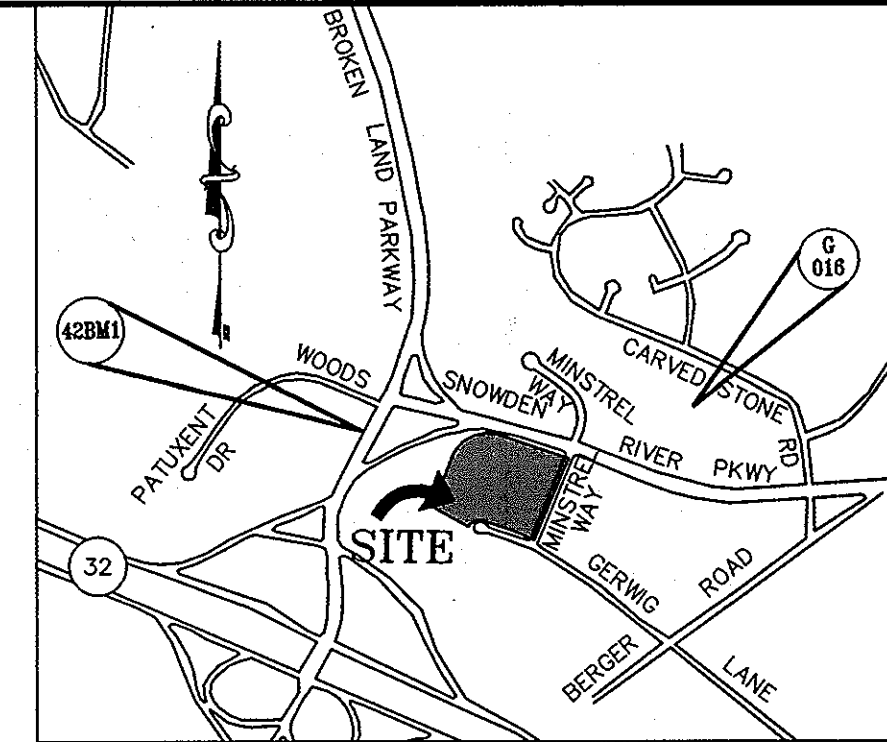
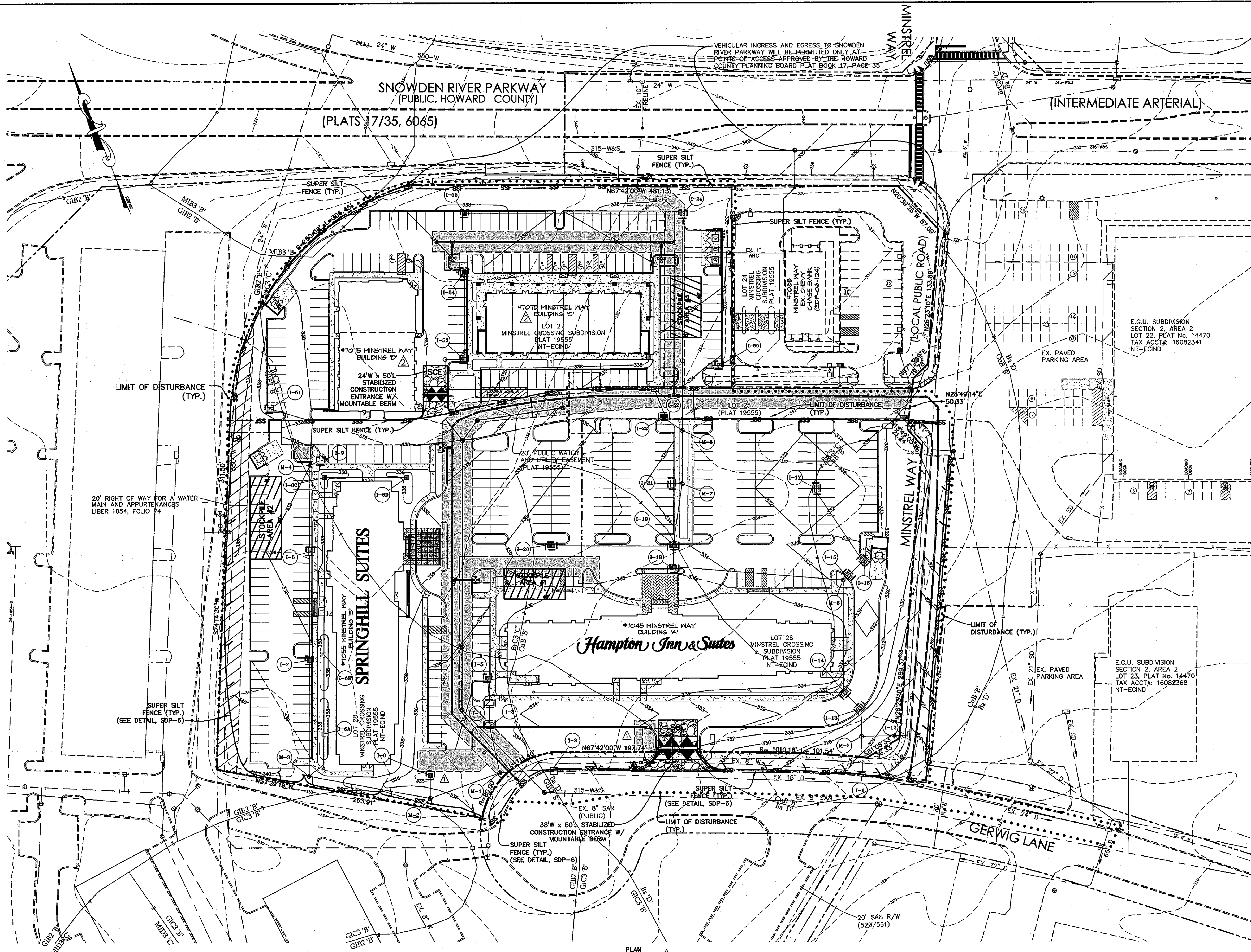
| BY | NO. | REVISION | DATE |
|-----|-----|--|-------|
| LAI | 1 | ADDED BUILDINGS 'C' AND 'D' | 10/12 |
| LAI | 2 | REMOVED OUTSIDE HM VAULTS, USE INTERNAL WATER METERS | 8/08 |

SITE DEVELOPMENT PLAN-3
REVISED SDP-07-078
MINSTREL CROSSING II
MINSTREL CROSSING SUBDIVISION
LOTS 24 THROUGH 28

ELECTION DISTRICT 6
PLAT REF. 19555, 17/35 & 24/99
SCALE: AS SHOWN
DRG NO.: SDP-4

HOWARD COUNTY, MD
M 42 G 3, 9 P 375, 399
MAY 29, 2008
SHEET 4 OF 32

SDP-07-078



BENCHMARK:
 GEODETIC CONTROL 0018: LOCATED AT CARVED STONE ROAD AND TRANSMISSION LINE (ELEV. 358.954) N 550.279.382 E 1,357.328.96
 BENCHMARK 42B1: CONCRETE MONUMENT AT CORNER OF BROKEN LAND PKWY AND SNOWDEN RIVER PKWY. (ELEV. 328.386)

- LEGEND**
- EXISTING CONTOUR 136
 - PROPOSED CONTOUR 136
 - EXISTING FENCE X
 - EXISTING CURB, TO BE REMOVED X*****
 - PROPERTY LINE - - - - -
 - EX. GAS LINE G
 - LIMIT OF DISTURBANCE
 - SUPER SILT FENCE S S
 - STABILIZED CONSTRUCTION ENTRANCE
 - MOUNTABLE BERM
 - INLET BLOCKING

NOTE: SEDIMENT CONTROL SYMBOLS ALONG PROPERTY LINES AS SHOWN ARE FOR CLARITY, ACTUAL LOCATION WILL BE AT THE PROPERTY LINE.

OWNER'S/ DEVELOPER'S CERTIFICATION:
 I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A TRAINING CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF OWNER/ DEVELOPER DATE

H&H ROCK c/o MARK LEVY
 PRINT NAME

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT

SIGNATURE DATE 11/5/12

G DWIGHT LITTLE, JR. 16019
 PRINT NAME MD. LICENSE NO.

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

 JOHN R. PHELAN
 HOWARD SOIL CONSERVATION DISTRICT
 DATE 11/20/12

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE 04/10/2008 AND 05/24/2012

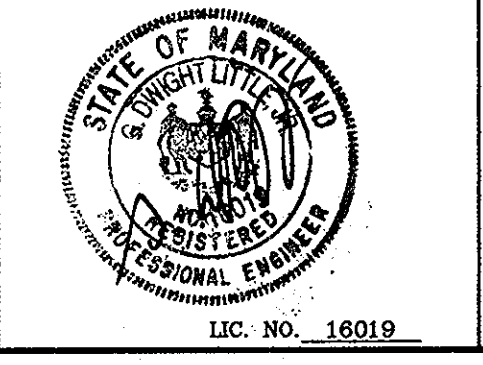
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16019, EXPIRATION DATE 5/8/2014.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

 CHIEF, DEVELOPMENT ENGINEERING DIVISION

 CHIEF, DIVISION OF LAND DEVELOPMENT

 DIRECTOR



LITTLE & ASSOCIATES, INC.
 ENGINEERS~LAND PLANNERS~SURVEYORS
 1055 TAYLOR AVENUE, SUITE 307
 TOWSON, MARYLAND 21286
 PHONE: (410)296-1636 FAX: (410)296-1639

OWNER:
 SNOWDEN ROCK, LLC; TRANSITION ROCK, LLC; PILL ROCK, LLC
 C/O H&H ROCK
 6800 DEERPATH ROAD
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 410-579-2442

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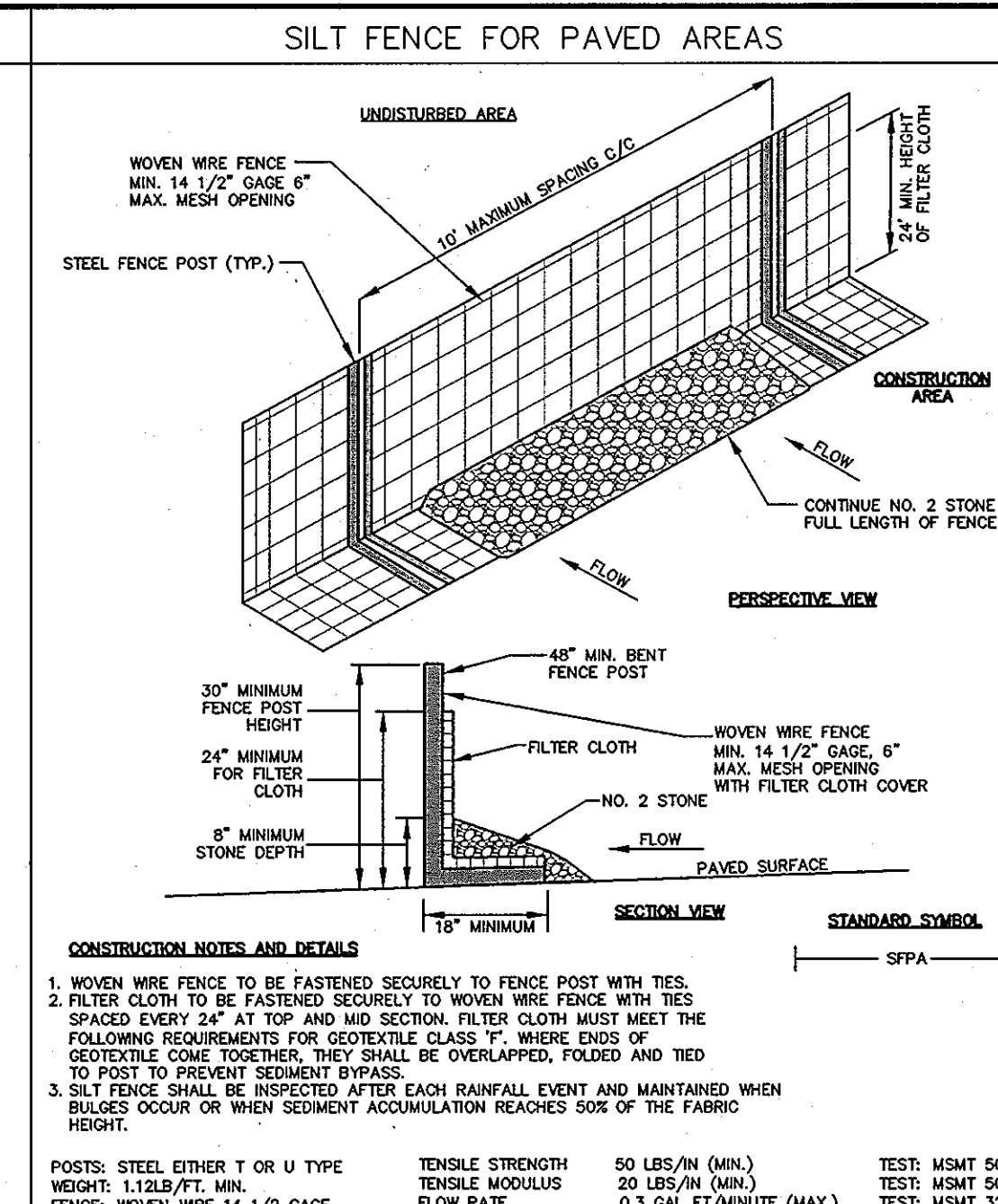
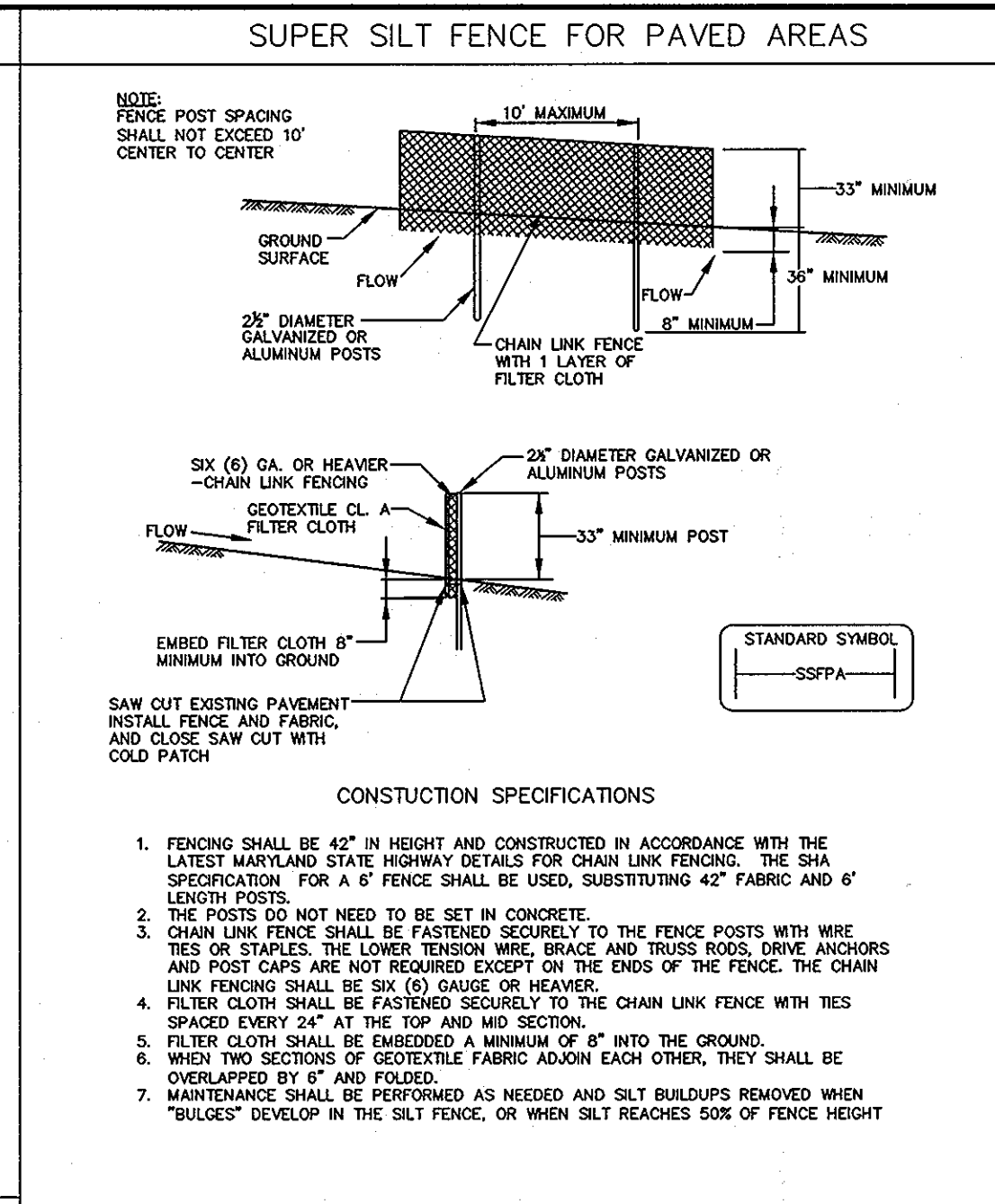
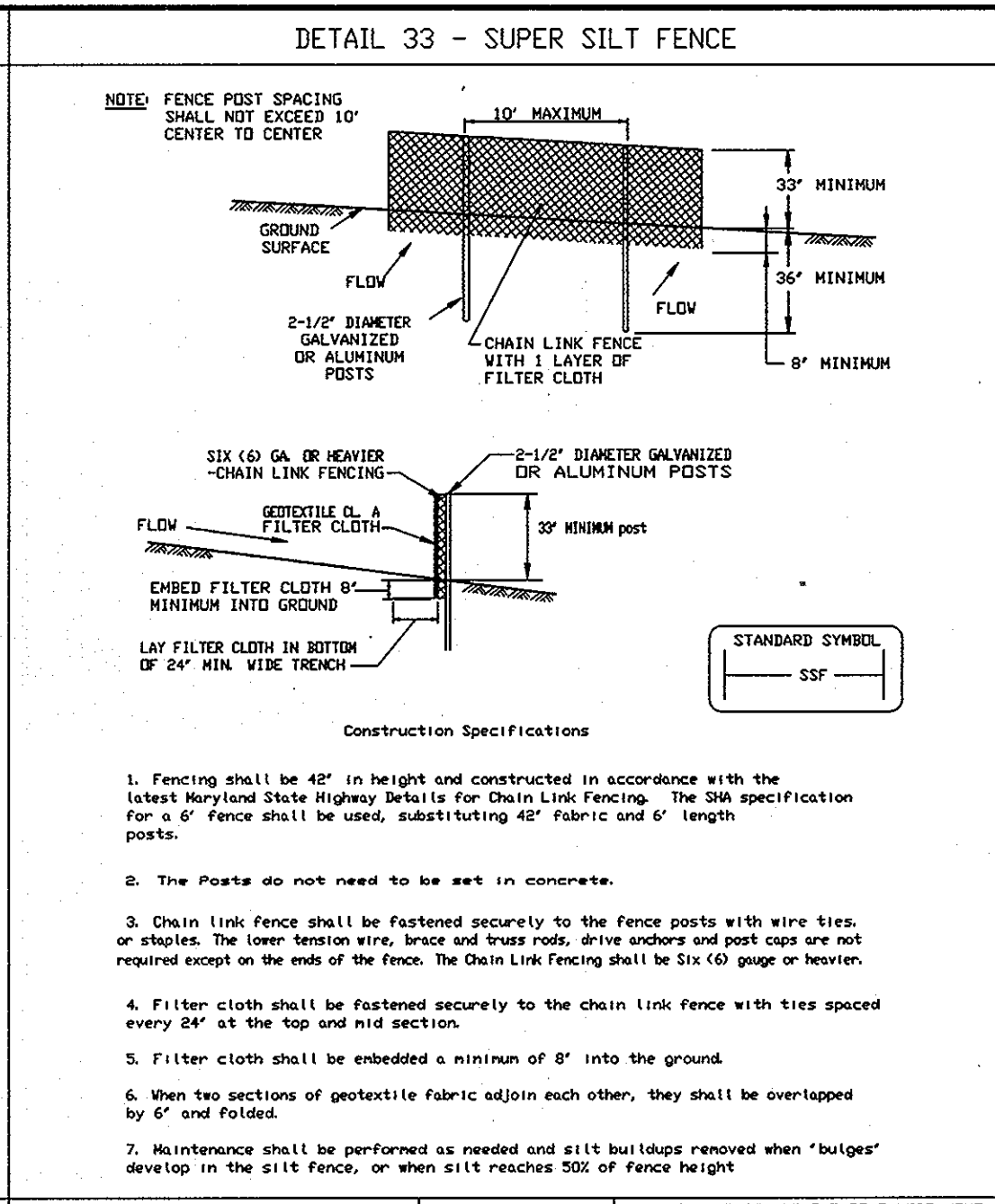
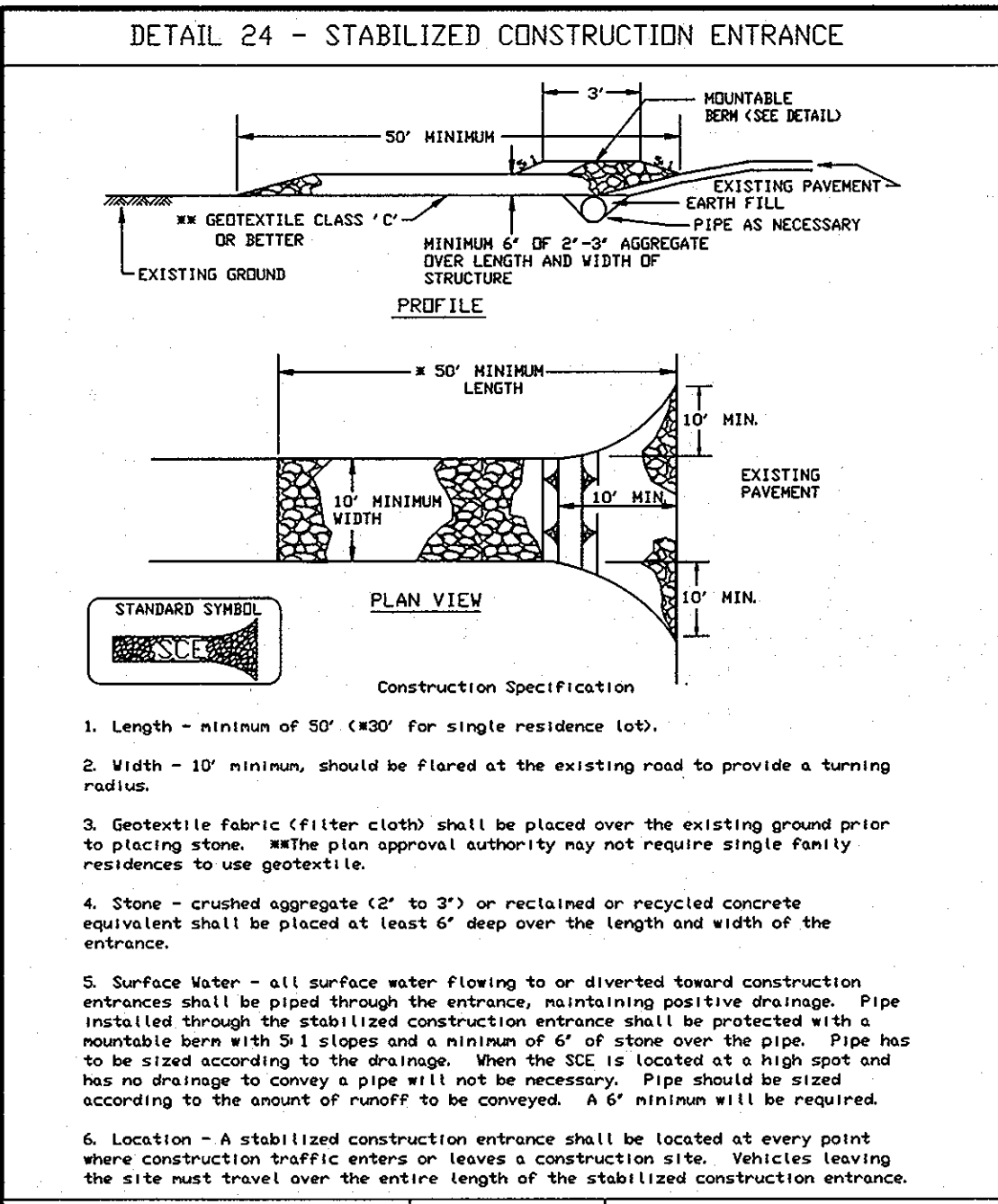
DEVELOPER:
 H&H ROCK
 6800 DEERPATH ROAD
 SUITE 100
 ELK RIDGE, MD 21075
 410-579-2442

| BY | NO. | REVISION | DATE |
|-----|-----|--|-------|
| LAI | 1 | ADDED BUILDINGS 'C' AND 'D' | 10/12 |
| LAI | 2 | ADDED SHEETS 30-32 | |
| LAI | 3 | REMOVED OUTSIDE VM VAULTS, USE INTERNAL WATER METERS | 8/08 |

SEDIMENT CONTROL
 REVISED SDP-07-078
MINSTREL CROSSING II
 MINSTREL CROSSING SUBDIVISION
 LOTS 24 THROUGH 28

ELECTION DISTRICT 6
 PLAT REF. 19555, 17/35, 24/99
 SCALE: AS SHOWN
 DRG NO.: SDP-5

HOWARD COUNTY, MD
 M 42 G 3, 9 P 375, 399
 MAY 29, 2008
 SHEET 5 of 32



CONSTRUCTION NOTES AND DETAILS

| | | | |
|---------------------------------|----------------------|-------------------------|----------------|
| POSTS: STEEL EITHER T OR U TYPE | TENSILE STRENGTH | 50 LBS/IN (MIN.) | TEST: MSMT 509 |
| WENGE: WOVEN WIRE 14 1/2" G/2 | TENSILE MODULUS | 20 LBS/IN (MIN.) | TEST: MSMT 509 |
| 4" MAX OPENING | FLOW RATE | 0.5 GAL/FT/MINUTE (MAX) | TEST: MSMT 322 |
| | FILTERING EFFICIENCY | 70% (MIN.) | TEST: MSMT 322 |

CONSTRUCTION STEP

| TIME TABLE | CONSTRUCTION STEP |
|------------|---|
| 60 DAYS | 1. OBTAIN PROPER PERMITS. |
| 2 DAYS | 2. NOTIFY HOWARD COUNTY DEPARTMENT OF PERMITS & LICENSES, GRADING & SEDIMENT CONTROL INSPECTIONS AT (410) 313-1855 AT LEAST 48 HOURS PRIOR TO BEGINNING WORK. |
| 5 DAYS | 3. CLEAR & GRUB FOR INSTALLATION OF SEDIMENT & EROSION CONTROL MEASURES OR DEVICES ONLY. IMMEDIATELY UPON COMPLETION OF STORM DRAIN SYSTEM, INSTALL INLET PROTECTION ON ALL INLETS AND INSPECT & MAINTAIN ALL EXISTING SEDIMENT CONTROLS. |
| 2 DAYS | 5. NOTIFY HOWARD COUNTY DEPARTMENT OF PERMITS & LICENSES, GRADING & SEDIMENT CONTROL INSPECTIONS AT (410) 313-1855 UPON COMPLETION OF SAID INSTALLATION. |
| 14 DAYS | 6. WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, CLEAR & GRUB THE REMAINDER OF THE SITE AS REQUIRED TO COMPLETE THE INSTALLATION OF NEW UTILITY LINES, CONDUITS, AND SERVICES. STABILIZE DISTURBED AREAS WITH TEMPORARY SEEDING (SEE NOTES, THIS SHEET). |
| 21 DAYS | 8. ROUGH GRADE SITE AS REQUIRED. BRING PROPOSED PAVING AREAS TO CUT GRADE. PLACE SUBBASE AND STABILIZE PAVED AREAS FOR BUILDINGS 'A' AND 'B'. |
| 90 DAYS | 9. PROPOSED NEW BUILDING CONSTRUCTION FOR BUILDINGS 'A'-'D' MAY BEGIN AT THIS TIME. |
| 5 DAYS | 10. STABILIZE DISTURBED AREAS AROUND BUILDINGS 'A'-'D' WITH TEMPORARY SEEDING MIX. |
| 30 DAYS | 12. BRING PARKING LOT AREA TO CUT GRADE. INSTALL SUBBASE AND STABILIZE. REMOVE EXISTING CURB AROUND ISLANDS AS SHOWN. PAVE REMAINDER OF ACCESS ROAD AND PARKING LOT AREA. INSTALL SIDEWALKS WHERE SHOWN. STABILIZE ISLAND AREAS WITH TEMPORARY SEEDING MIX. |
| 21 DAYS | 14. BRING PAVING AREAS TO CUT GRADE. INSTALL SUBBASE AND STABILIZE. INSTALL SIDEWALKS WHERE SHOWN. |
| 21 DAYS | 16. PAVE PARKING AREAS. |
| 14 DAYS | 17. WITH THE PERMISSION OF THE GRADING & SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT & EROSION CONTROL MEASURES OR DEVICES. STABILIZE ANY AREAS DISTURBED BY THIS PROCESS. |
| 5 DAYS | 18. INSTALL LANDSCAPE MATERIALS. |

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 7-17-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE MODIFIED MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE MODIFIED MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

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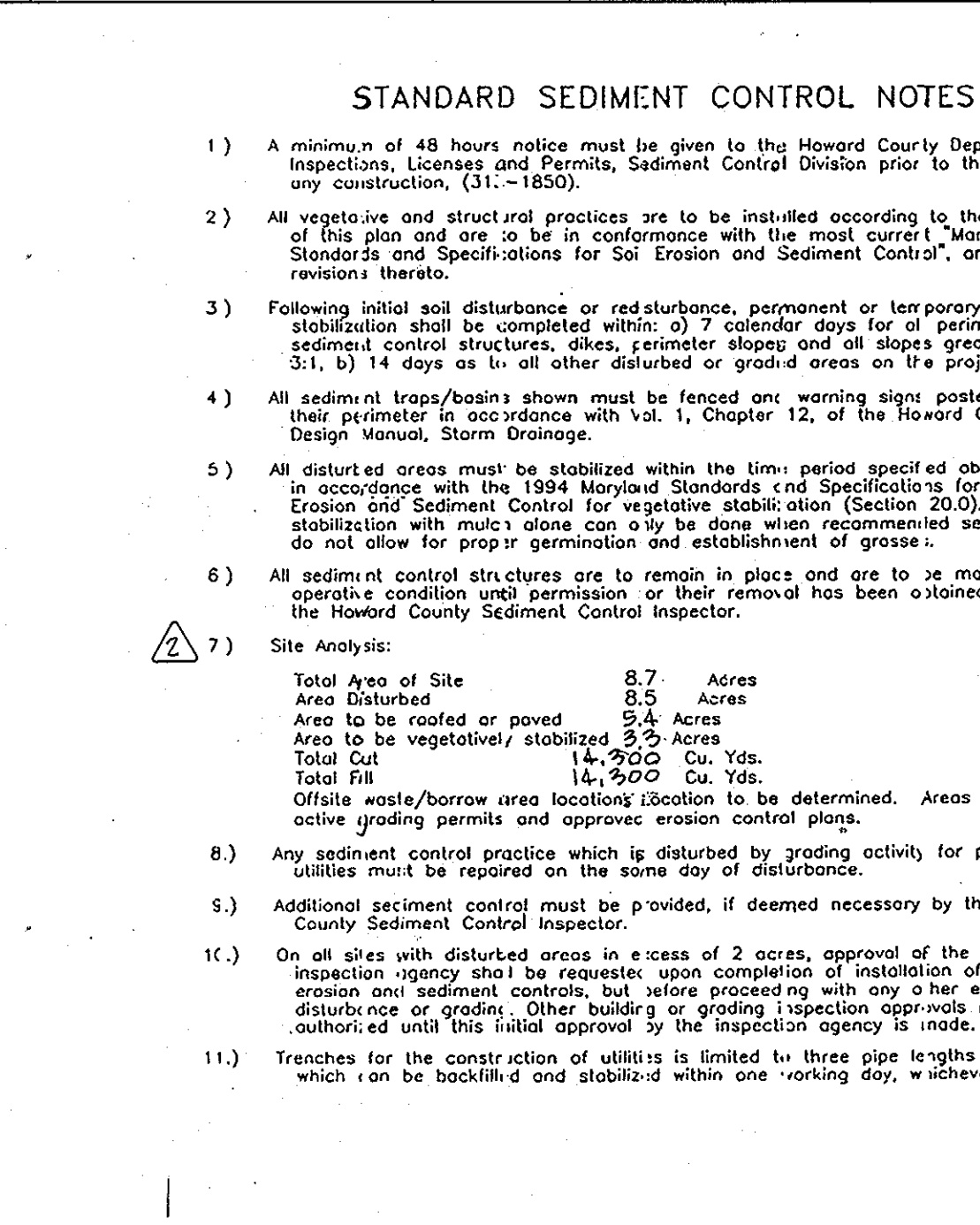
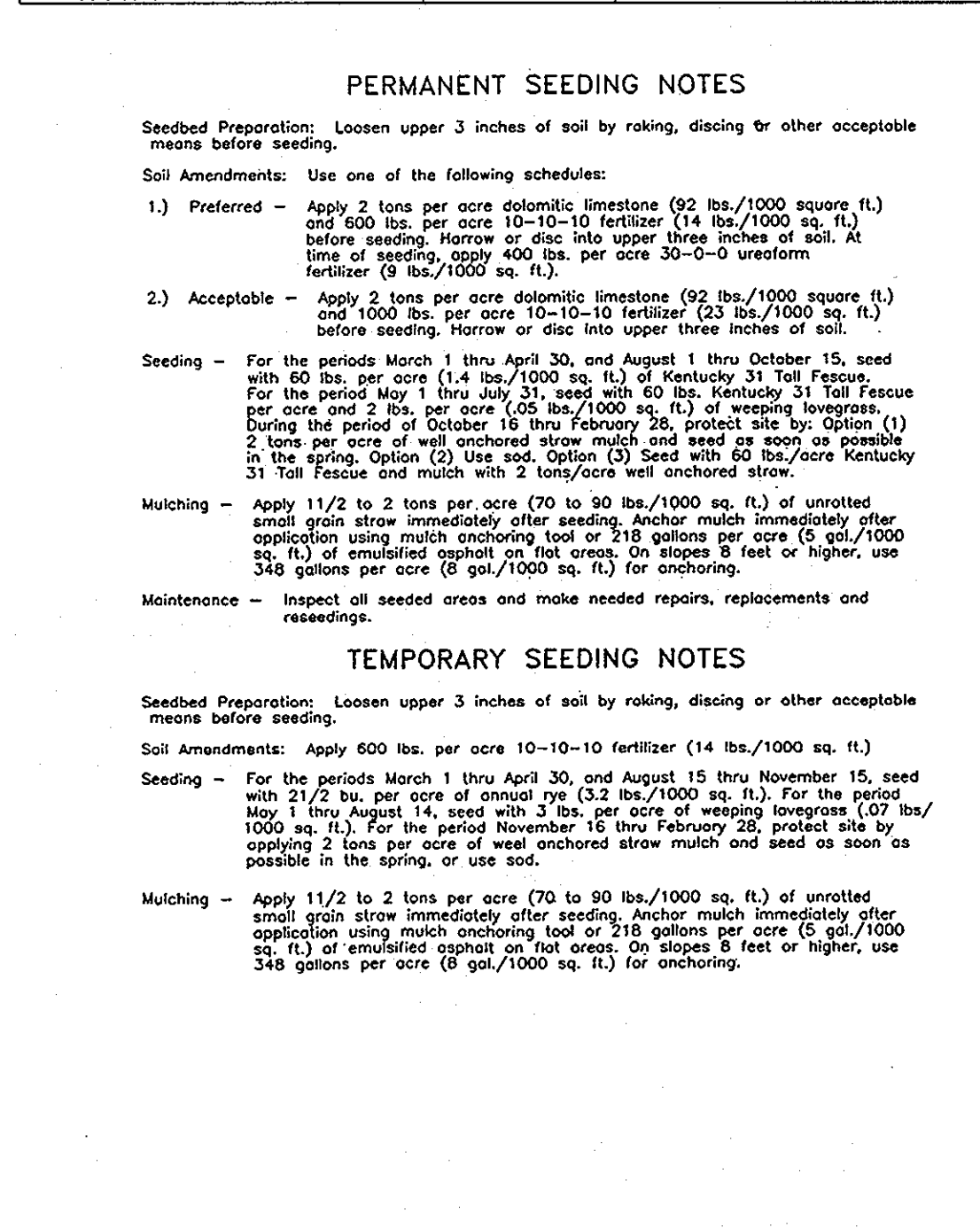
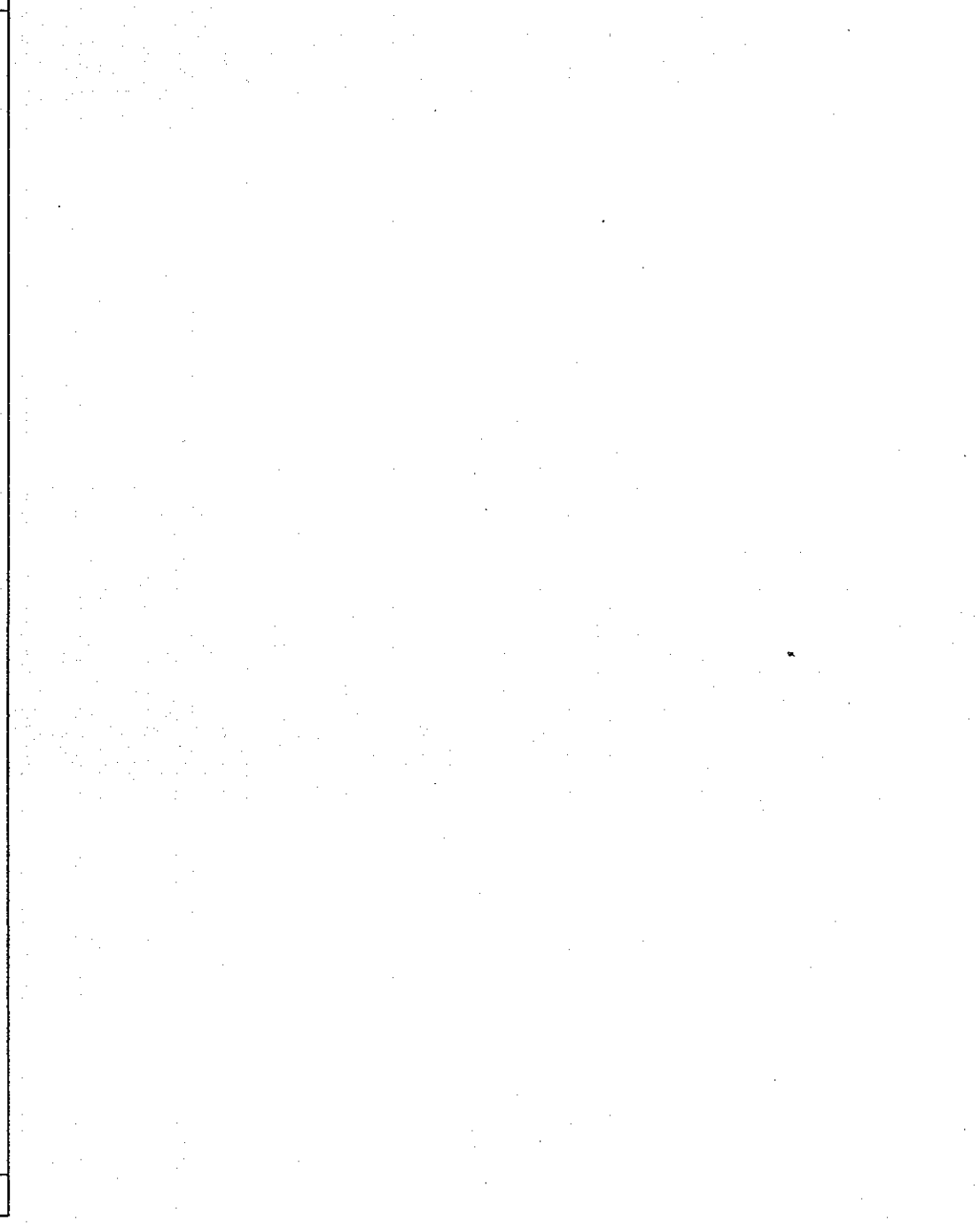
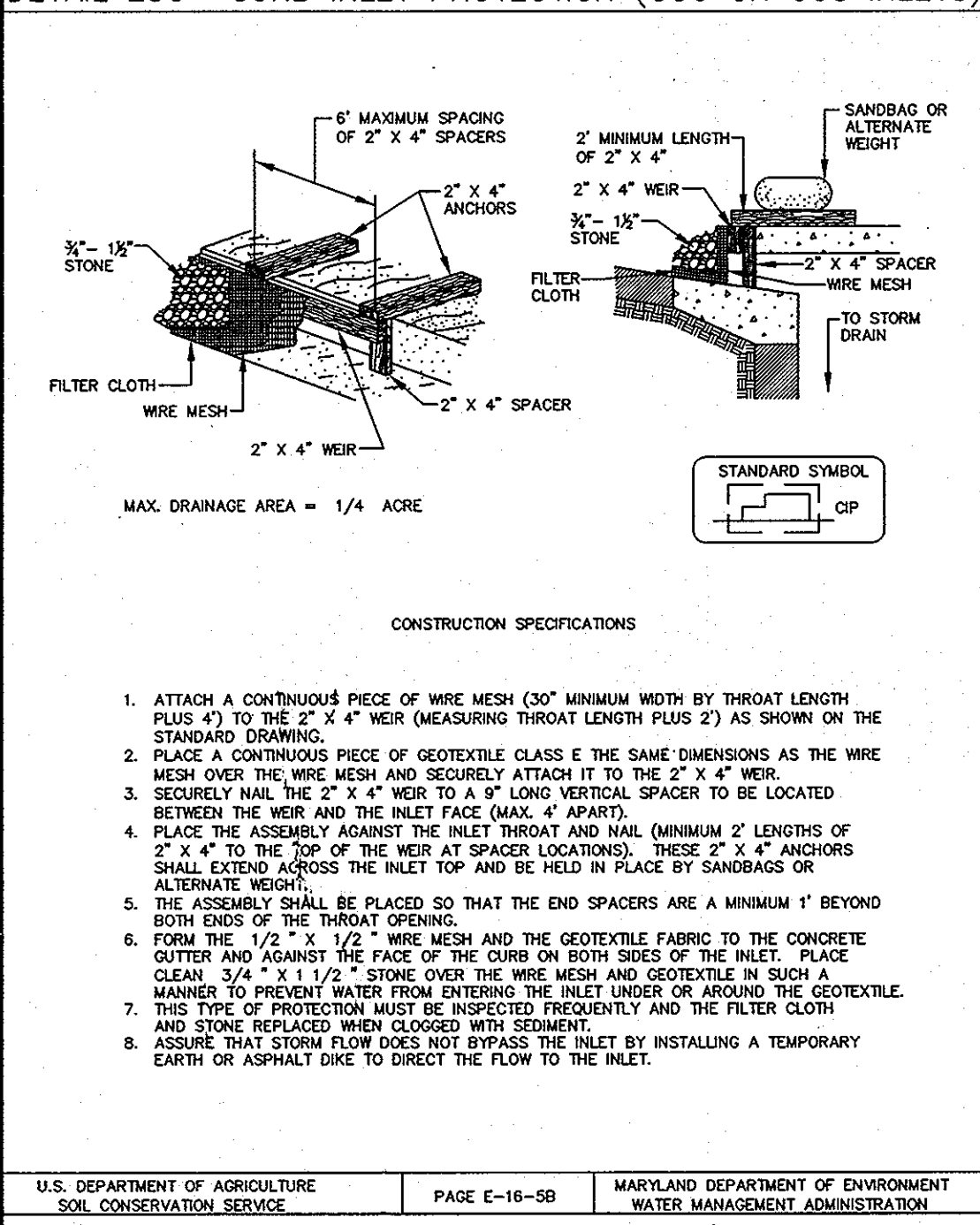


Table 27 - Geotextile Fabrics

| Class | Apparent Opening Size (mm) | Grab Tensile Strength (lb/ft) | Burst Strength (PSI) |
|----------------|----------------------------|-------------------------------|----------------------|
| A | 0.30* | 250 | 500 |
| B | 0.60 | 200 | 320 |
| C | 0.30 | 200 | 320 |
| D | 0.60 | 90 | 145 |
| E | 0.30 | 90 | 145 |
| F (SILT FENCE) | 0.40-0.60* | 90 | 190 |

CONSTRUCTION SPECIFICATIONS

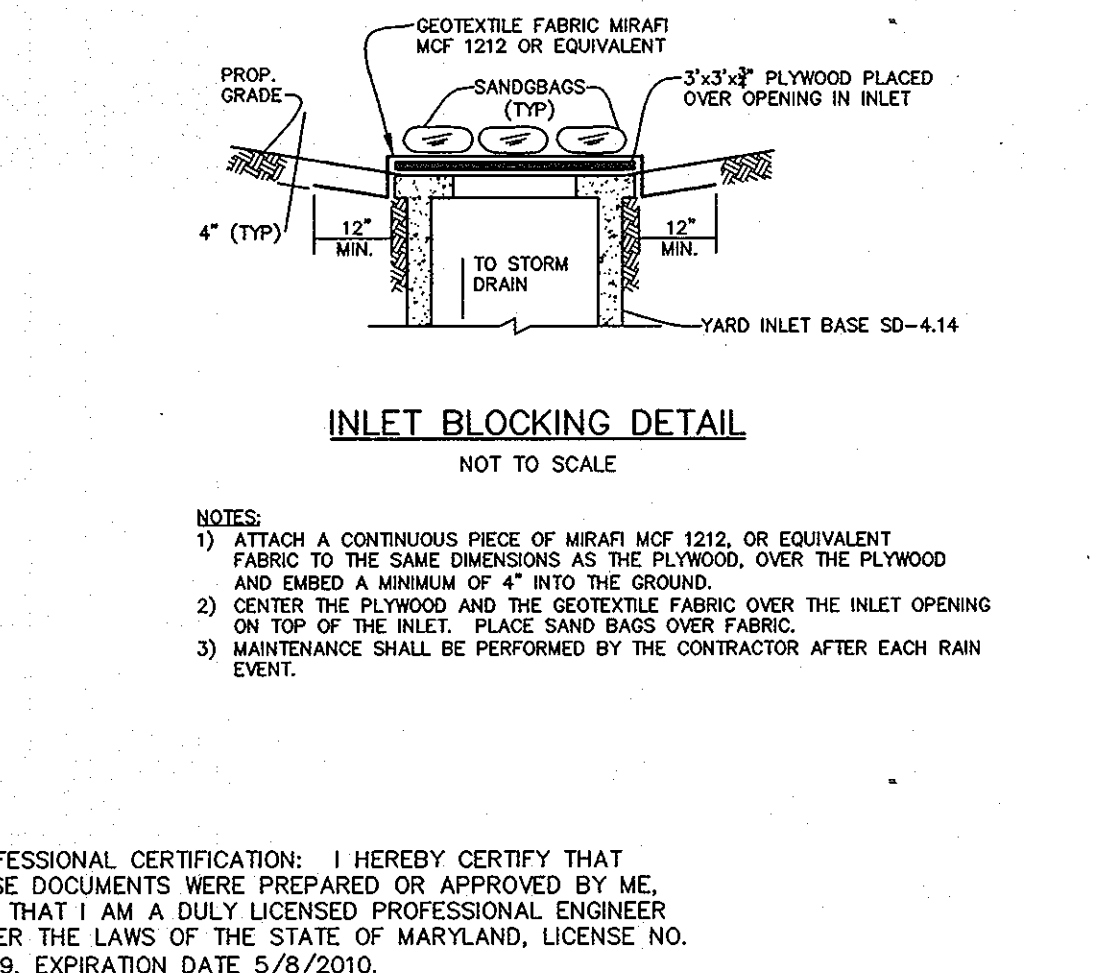
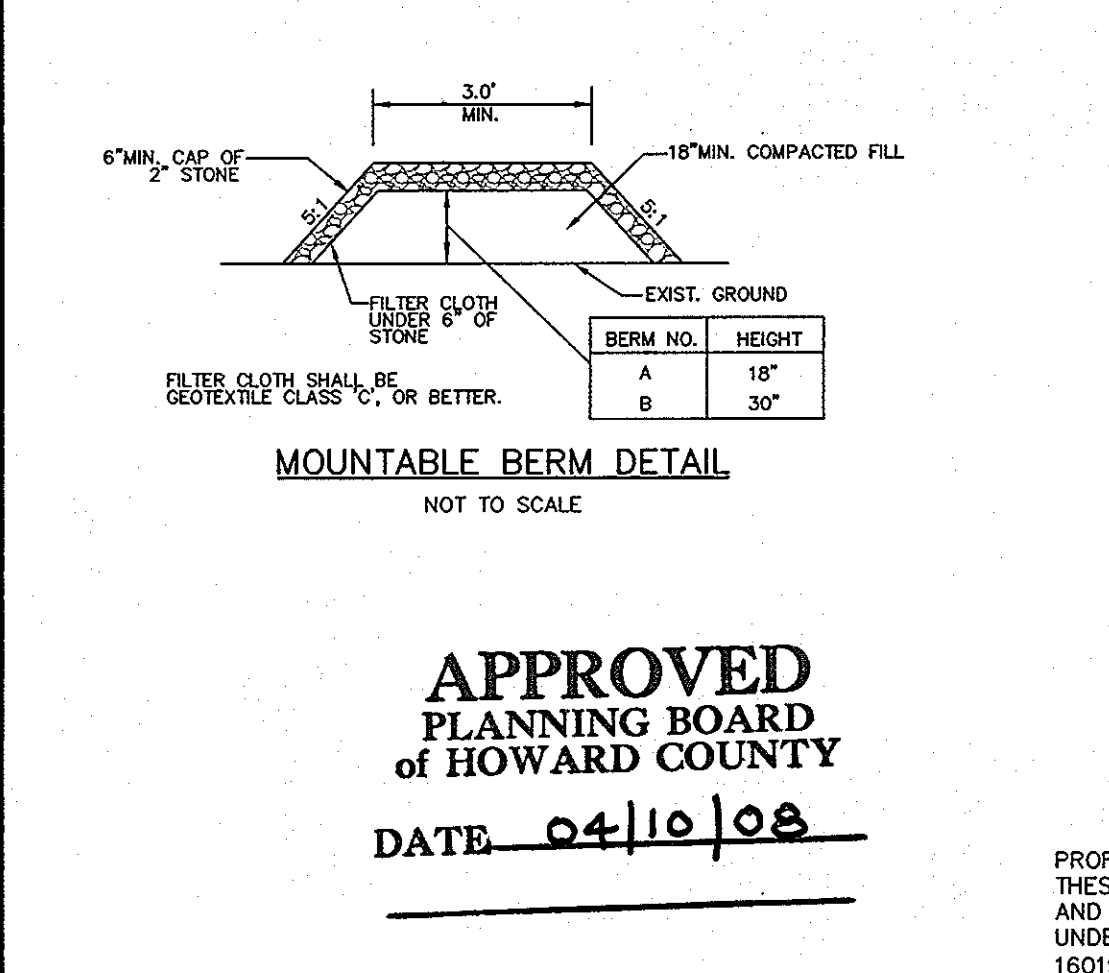
1. ATTACH A CONTINUOUS PIECE OF WIRE MESH (30" MINIMUM WIDTH BY THROAT LENGTH PLUS 4") TO THE 2" X 4" WER (MEASURING THROAT LENGTH PLUS 2) AS SHOWN ON THE STANDARD DRAWING.
2. PLACE A CONTINUOUS PIECE OF GEOTEXTILE CLASS E OF THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH IT TO THE 2" X 4" WER.
3. SECURELY NAIL THE 2" X 4" WER TO A 1/2" SAND VERTICAL SPACER TO BE LOCATED BETWEEN THE WER AND THE INLET FACE (MAX. 4" APART).
4. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MINIMUM 2" LENGTHS OF 2" X 4" TO THE TOP OF THE WER AT SPACER LOCATIONS). THESE 2" X 4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT.
5. THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM 1" BEYOND BOTH ENDS OF THE THROAT OPENING.
6. FORM THE 1/2" X 1/2" WIRE MESH AND THE GEOTEXTILE FABRIC TO THE CONCRETE CURB AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 3/4" X 1 1/2" STONE OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
7. ASSURE THAT STORM FLOW DOES NOT BYPASS THE INLET BY INSTALLING A TEMPORARY EARTH OR ASPHALT DIKE TO DIRECT THE FLOW TO THE INLET.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-16-58 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE MODIFIED MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE MODIFIED MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE MODIFIED MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION: *[Signature]* DATE: 8/16/08

CHIEF, DIVISION OF LAND DEVELOPMENT: *[Signature]* DATE: 8/16/08

DIRECTOR: *[Signature]* DATE: 8/18/08

NOTES:

1. ATTACH A CONTINUOUS PIECE OF MIRAFI MCF 1212, OR EQUIVALENT FABRIC TO THE SAME DIMENSIONS AS THE PLYWOOD, OVER THE PLYWOOD AND EMBED A MINIMUM OF 4" INTO THE GROUND.
2. CENTER THE PLYWOOD AND THE GEOTEXTILE FABRIC OVER THE INLET OPENING ON TOP OF THE INLET. PLACE SAND BAGS OVER FABRIC.
3. MAINTENANCE SHALL BE PERFORMED BY THE CONTRACTOR AFTER EACH RAIN EVENT.

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. 16019, EXPIRATION DATE 5/8/2010.

LITTLE & ASSOCIATES, INC.
ENGINEERS--LAND PLANNERS--SURVEYORS
1055 TAYLOR AVENUE, SUITE 307
TOWSON, MARYLAND 21286
PHONE: (410)296-1636 FAX: (410)296-1639

OWNER: SNOWDEN ROCK, LLC; TRANSITION ROCK, LLC; PILL ROCK, LLC; C/O H&H ROCK; 6800 DEERPATH ROAD; ELK RIDGE, MD 21075; 410-579-2442

OTO ROCK, LLC; COLEMAN ROCK, LLC; C/O OTO DEVELOPMENT; 961 E. MAIN STREET; SPARTANBURG, SC 29302; 864-327-4035

DEVELOPER: H&H ROCK; 6800 DEERPATH ROAD; SUITE 100; ELK RIDGE, MD 21075; 410-579-2442

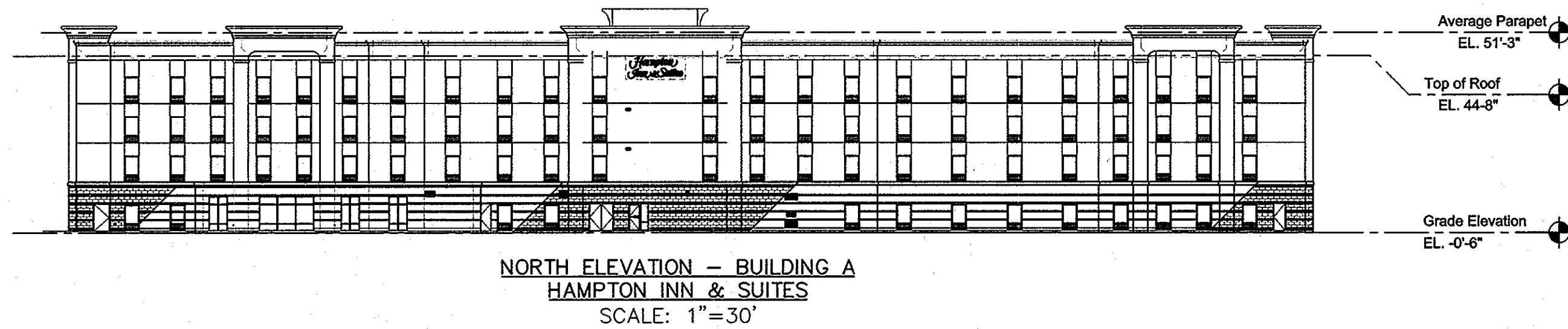
| BY | NO. | REVISION | DATE |
|-----|-----|---------------------|---------|
| LAI | 1 | ADDED BUILDINGS CIP | 10/2012 |
| | | ADDED SHEETS 30-32 | |

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

DATE: 7/17/08

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

DATE: 7/17/08



**FINISH SCHEDULE -- BUILDING A
HAMPTON INN**

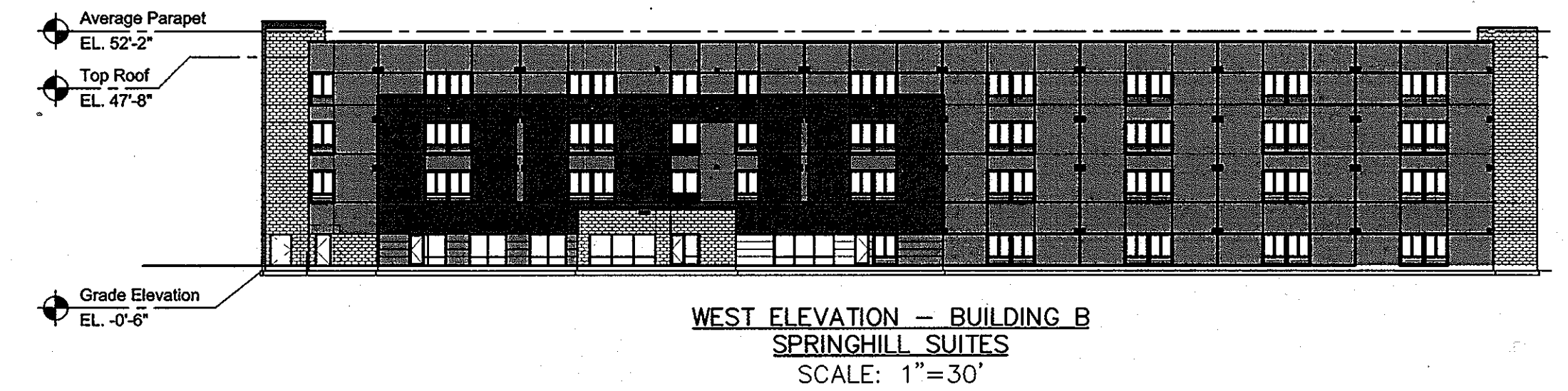
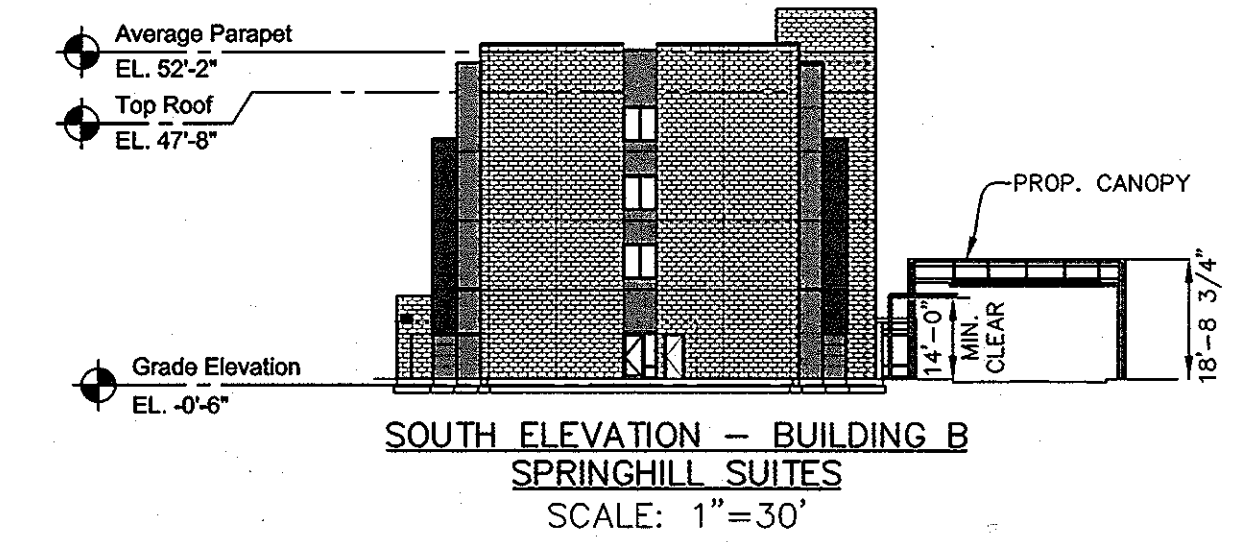
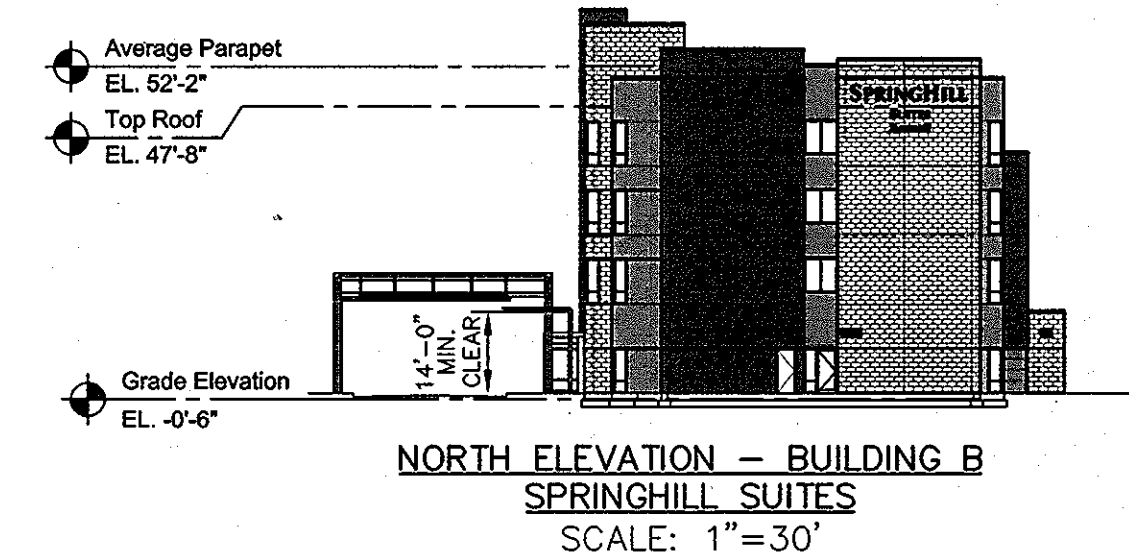
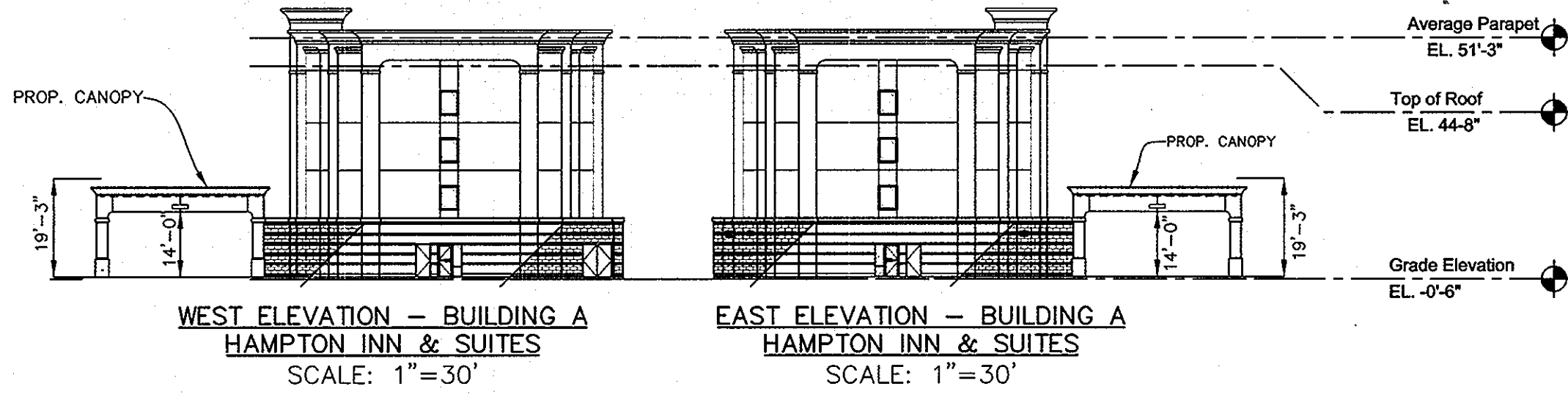
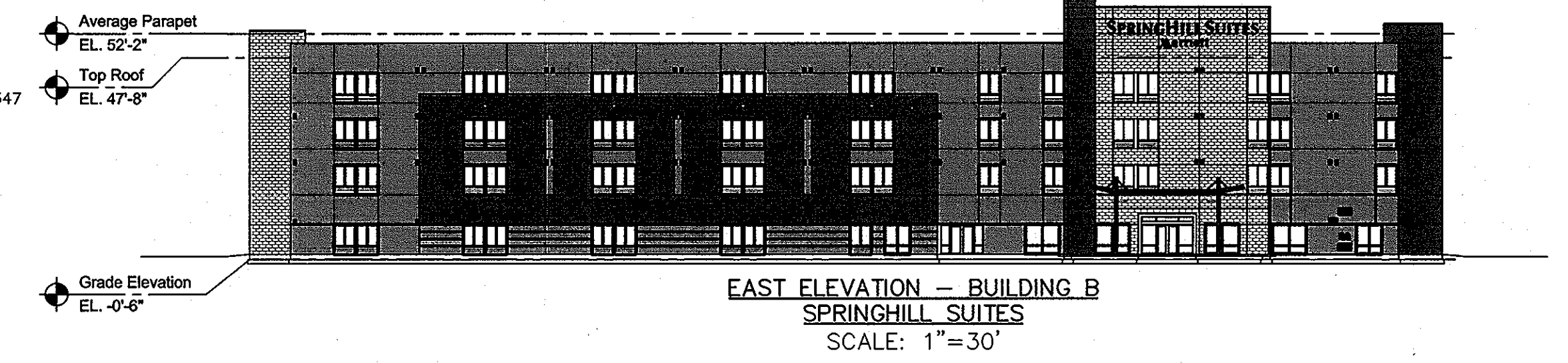
BRICK VENEER: HARMAR IRONGATE MATTE
 FIELD: DRYVT #400 FRENCH TOAST
 COLUMN: DRYVT #109 EGGSHELL CREAM

WINDOW FRAMES: MATCH COLUMN FIELD COLOR
 WINDOW GLASS: CLEAR, LOW 'E' & TINT

**FINISH SCHEDULE -- BUILDING B
SPRINGHILL SUITES**

BASE: DRYVT #142 SPECTRUM BROWN
 FIELD: DRYVT #203 SONORA W/ COLORPRIME #347
 BRICK VENEER: ACME BRICK RIDGMAR

WINDOW FRAMES: CHAMPAGNE #18
 WINDOW GLASS: CLEAR, LOW 'E' & TINT

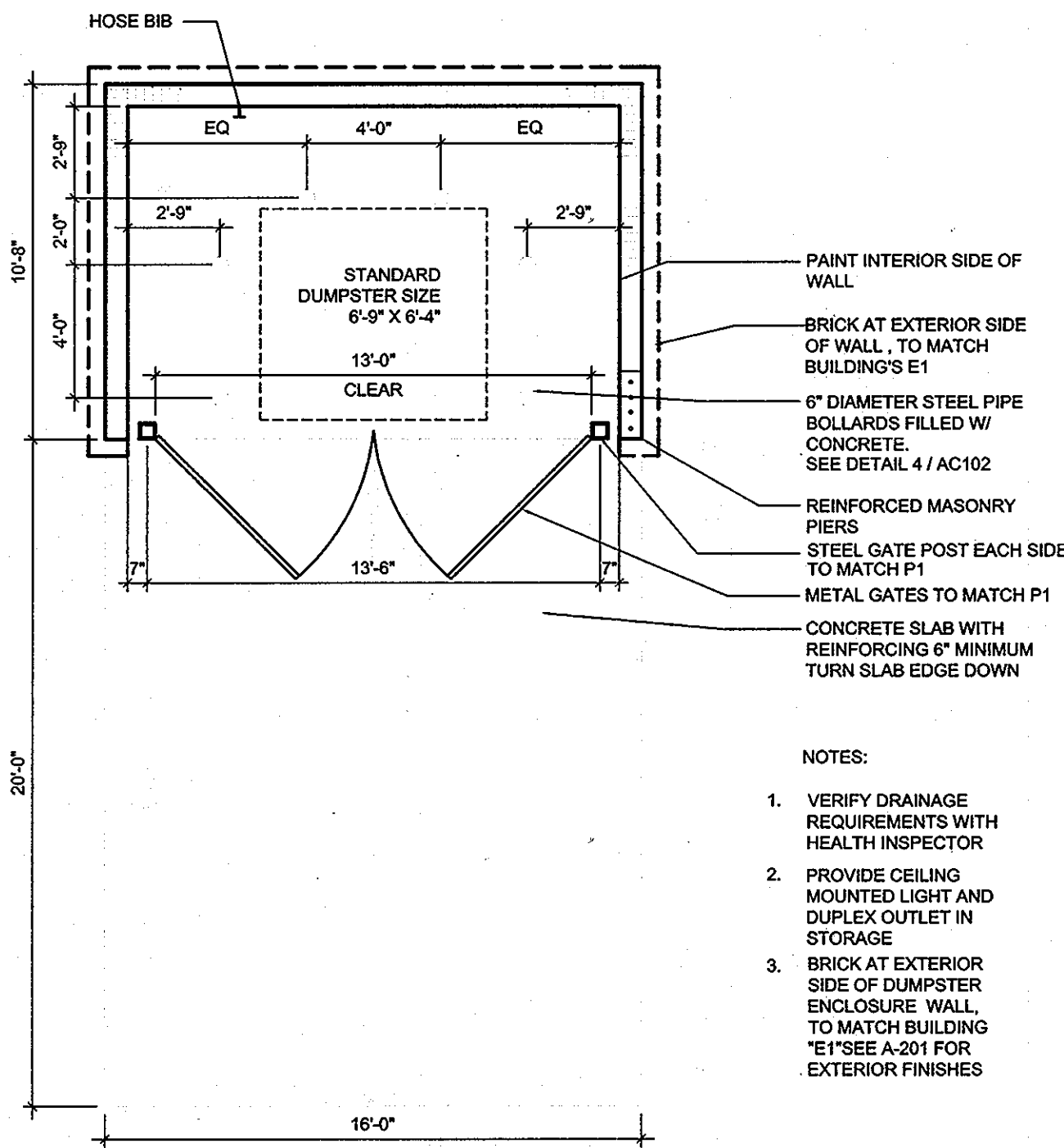


**PROPOSED BUILDING ELEVATIONS -- BUILDING A
HAMPTON INN & SUITES**
SCALE: 1"=30'

**PROPOSED BUILDING ELEVATIONS -- BUILDING B
SPRINGHILL SUITES**
SCALE: 1"=30'

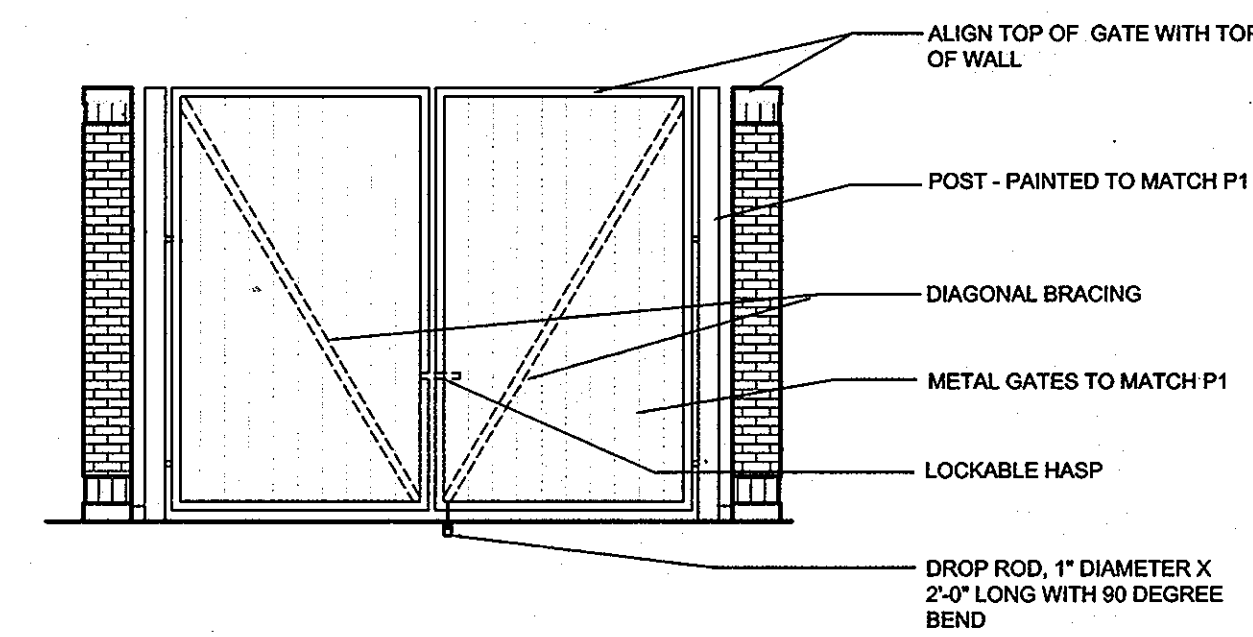
| | |
|-------------------------|--|
| ALLOWABLE HEIGHT: | 50'-0" ABOVE GRADE MEASURED TO HIGHEST POINT OF ROOF |
| ACTUAL HEIGHT: | 45'-2" |
| MIN. PARAPET HEIGHT: | 49'-2" |
| MAX. PARAPET HEIGHT: | 60'-0" |
| AVERAGE PARAPET HEIGHT: | 51'-3" |

| | |
|-------------------------|--|
| ALLOWABLE HEIGHT: | 50'-0" ABOVE GRADE MEASURED TO HIGHEST POINT OF ROOF |
| ACTUAL HEIGHT: | 49'-2" |
| MIN. PARAPET HEIGHT: | 50'-5 1/4" |
| MAX. PARAPET HEIGHT: | 60'-0" |
| AVERAGE PARAPET HEIGHT: | 52'-2" |

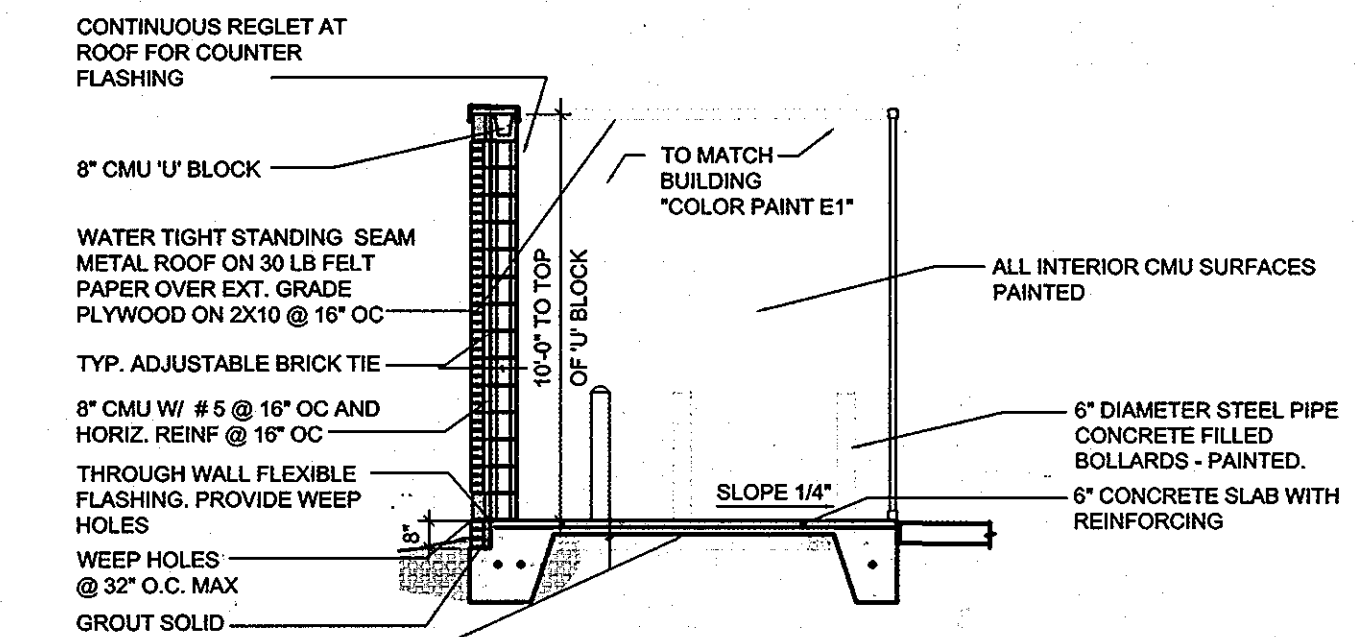


- NOTES:
1. VERIFY DRAINAGE REQUIREMENTS WITH HEALTH INSPECTOR
 2. PROVIDE CEILING MOUNTED LIGHT AND DUPLEX OUTLET IN STORAGE
 3. BRICK AT EXTERIOR SIDE OF DUMPSTER ENCLOSURE WALL, TO MATCH BUILDING "E" (SEE A-201 FOR EXTERIOR FINISHES)

SECTION -- EXTERIOR DUMPSTER/STORAGE
NOT TO SCALE



ELEVATION -- EXTERIOR DUMPSTER/STORAGE
NOT TO SCALE



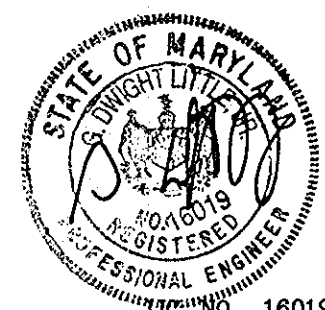
ELEVATION -- EXTERIOR DUMPSTER/STORAGE
NOT TO SCALE

**APPROVED
PLANNING BOARD
OF HOWARD COUNTY**
DATE 04/10/08

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. 16019, EXPIRATION DATE 5/9/2010.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE 5/6/08
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE 5/2/08
 DIRECTOR



LITTLE & ASSOCIATES, INC.
ENGINEERS--LAND PLANNERS--SURVEYORS
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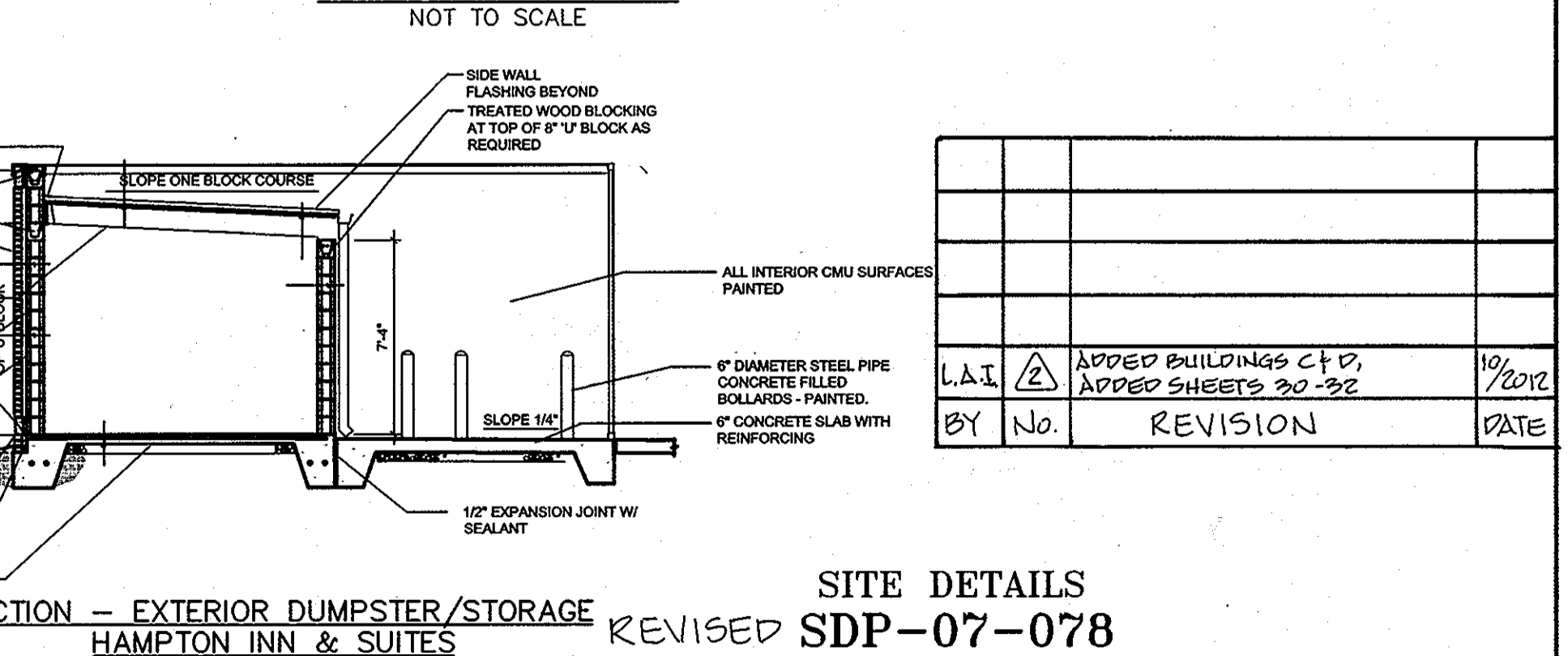
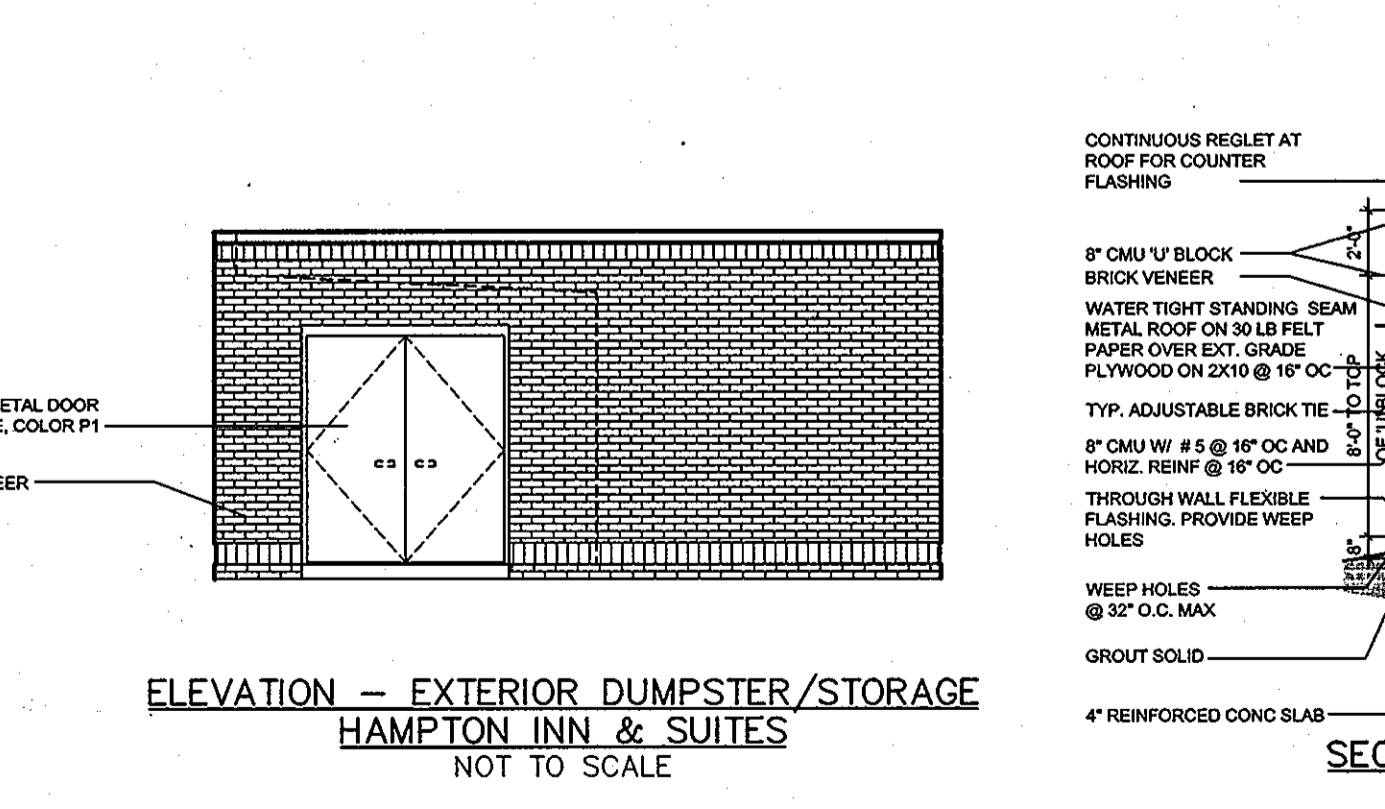
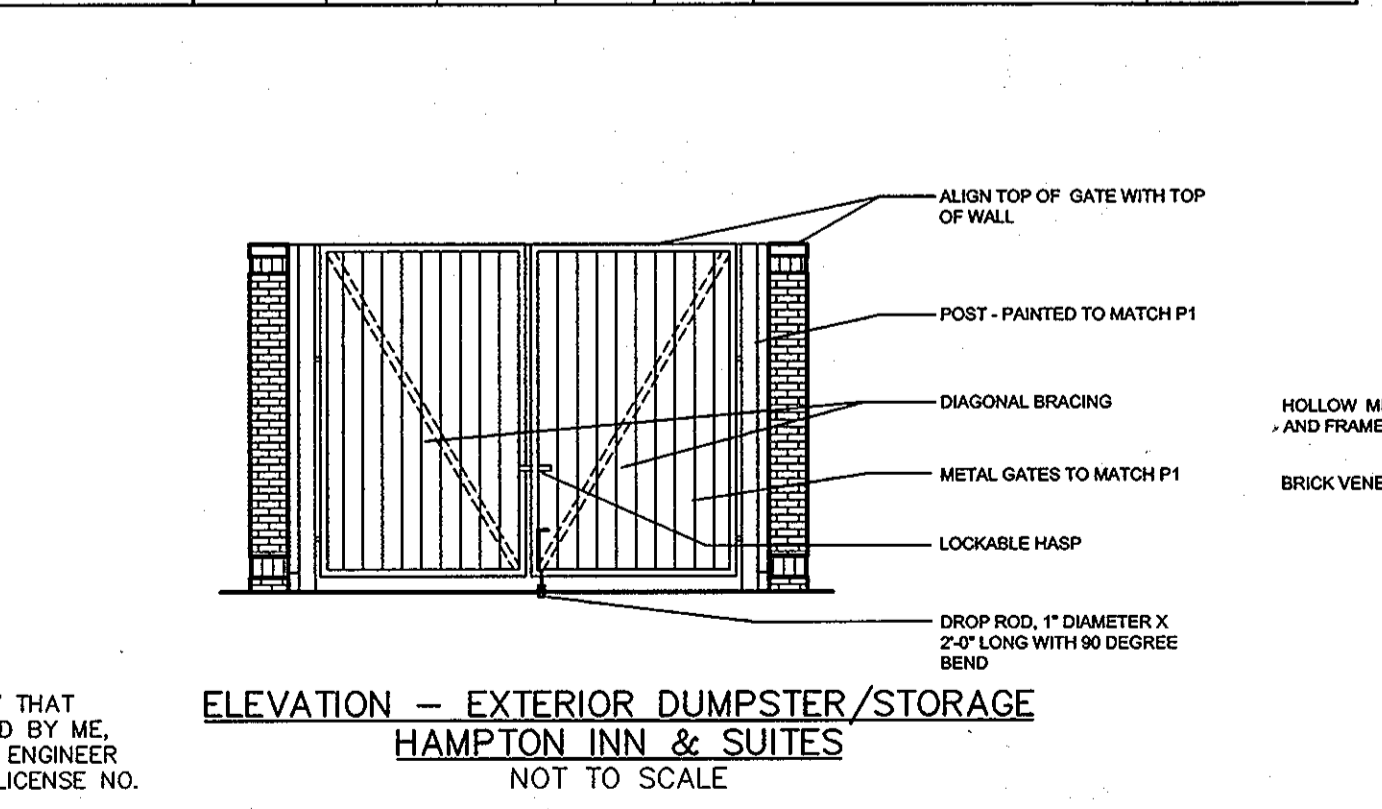
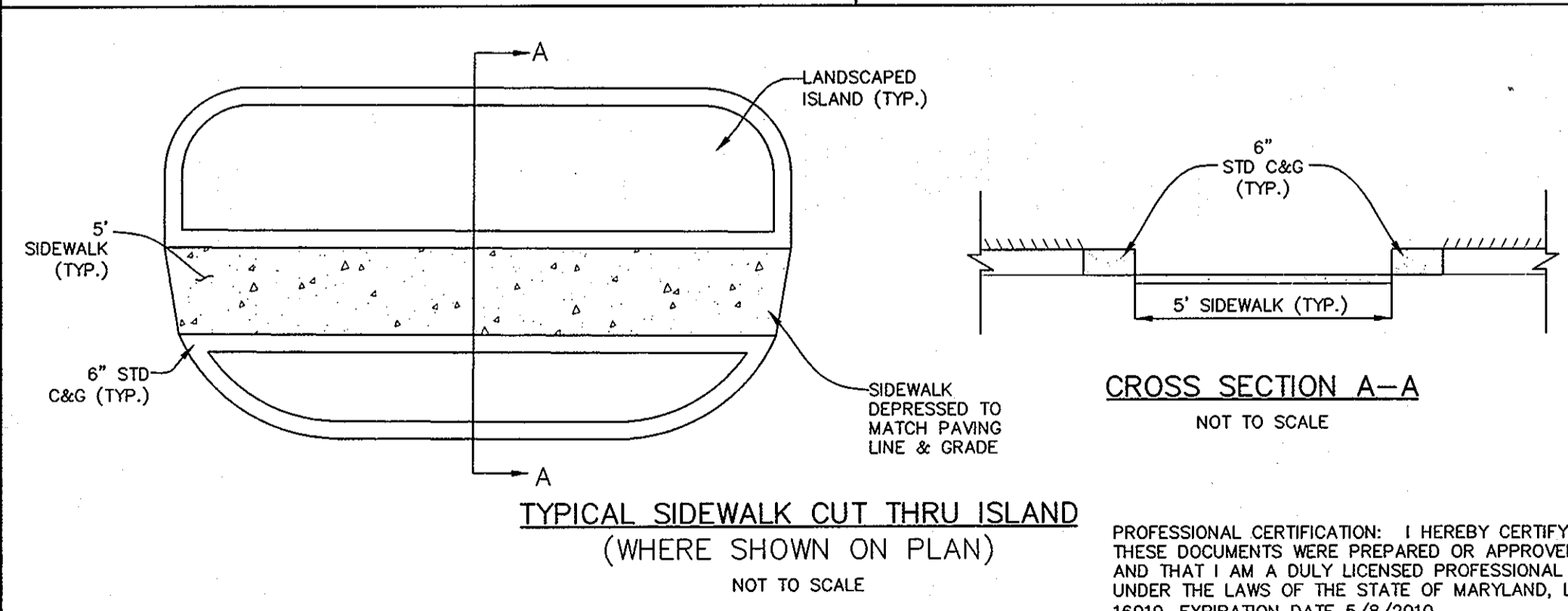
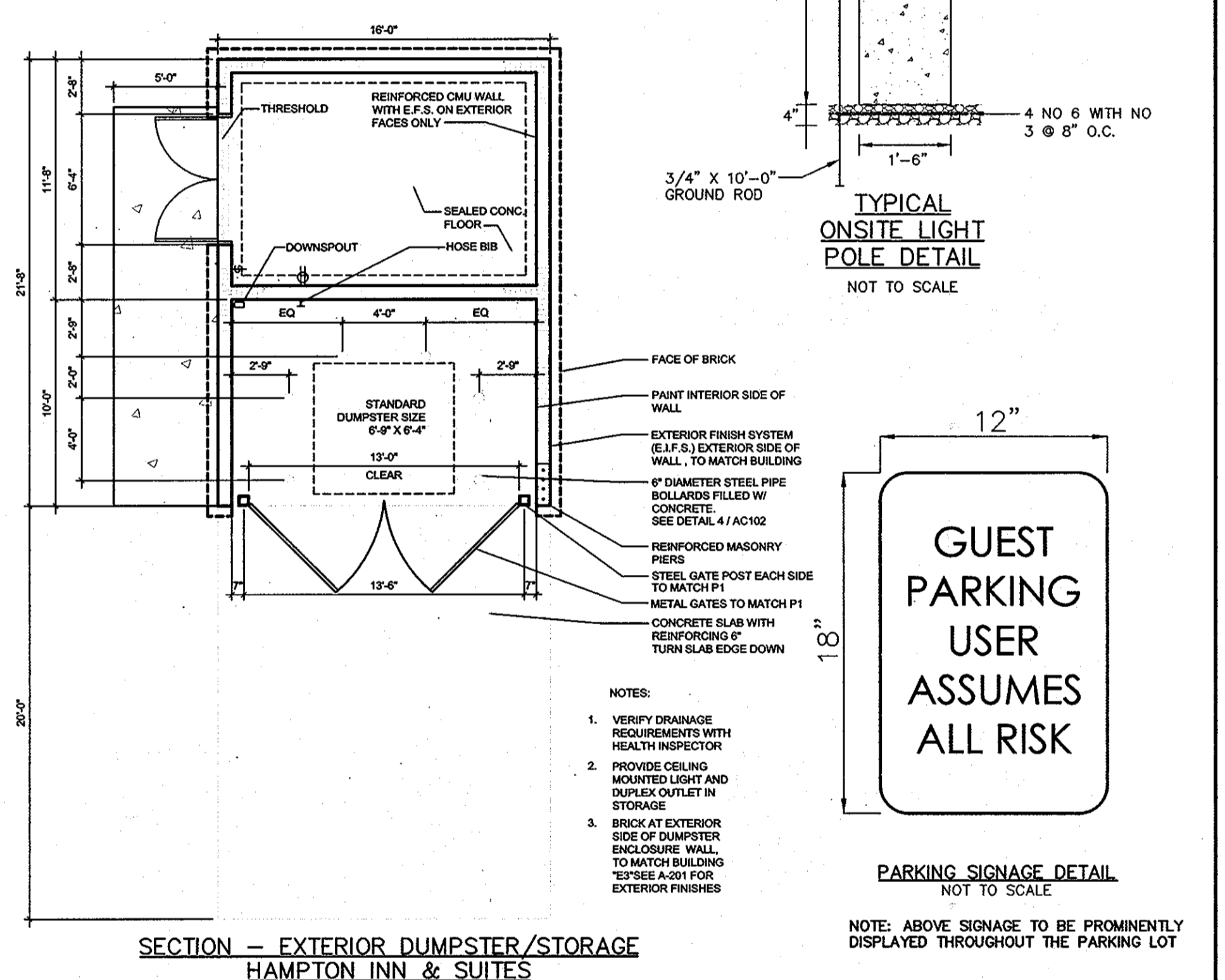
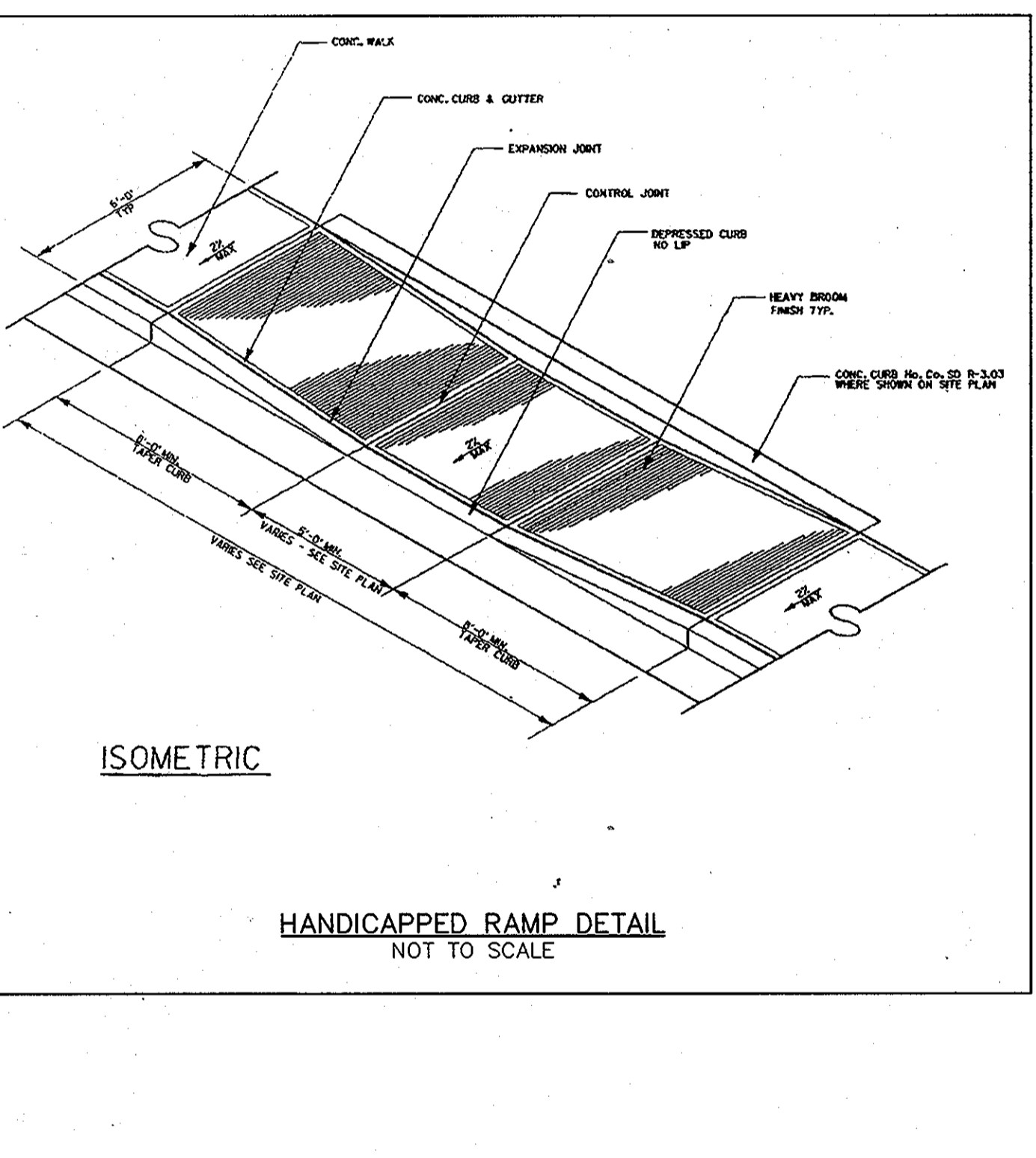
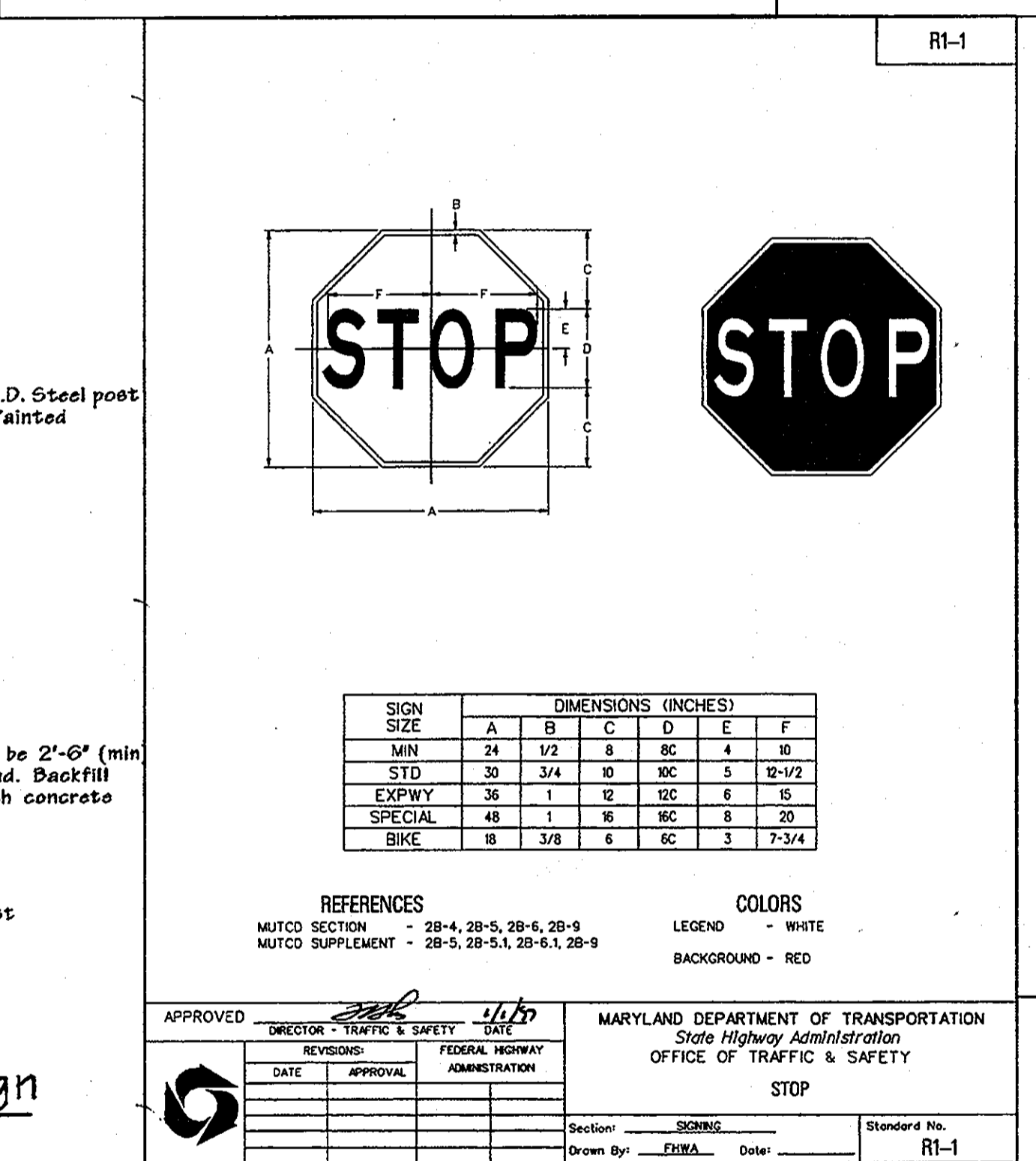
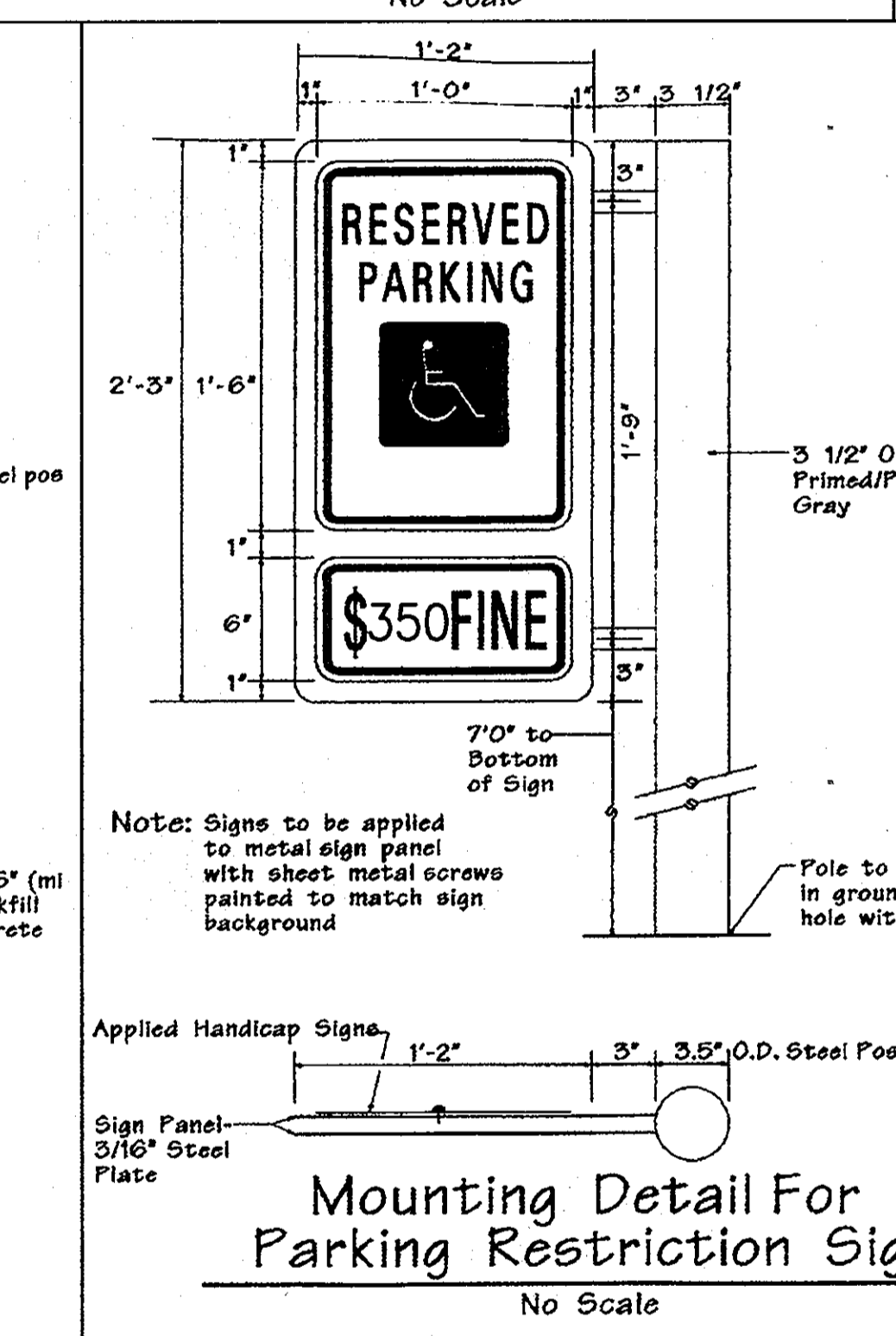
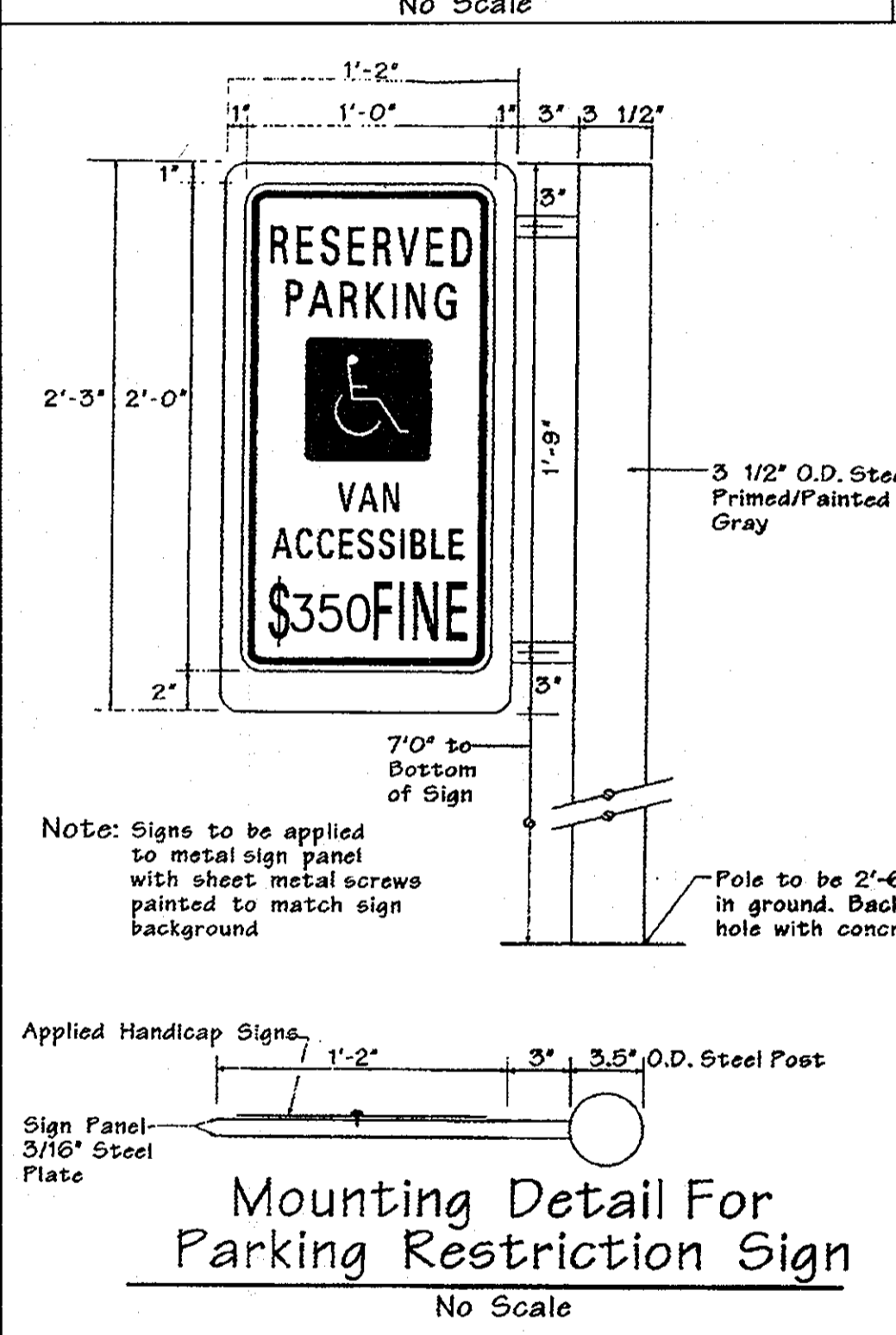
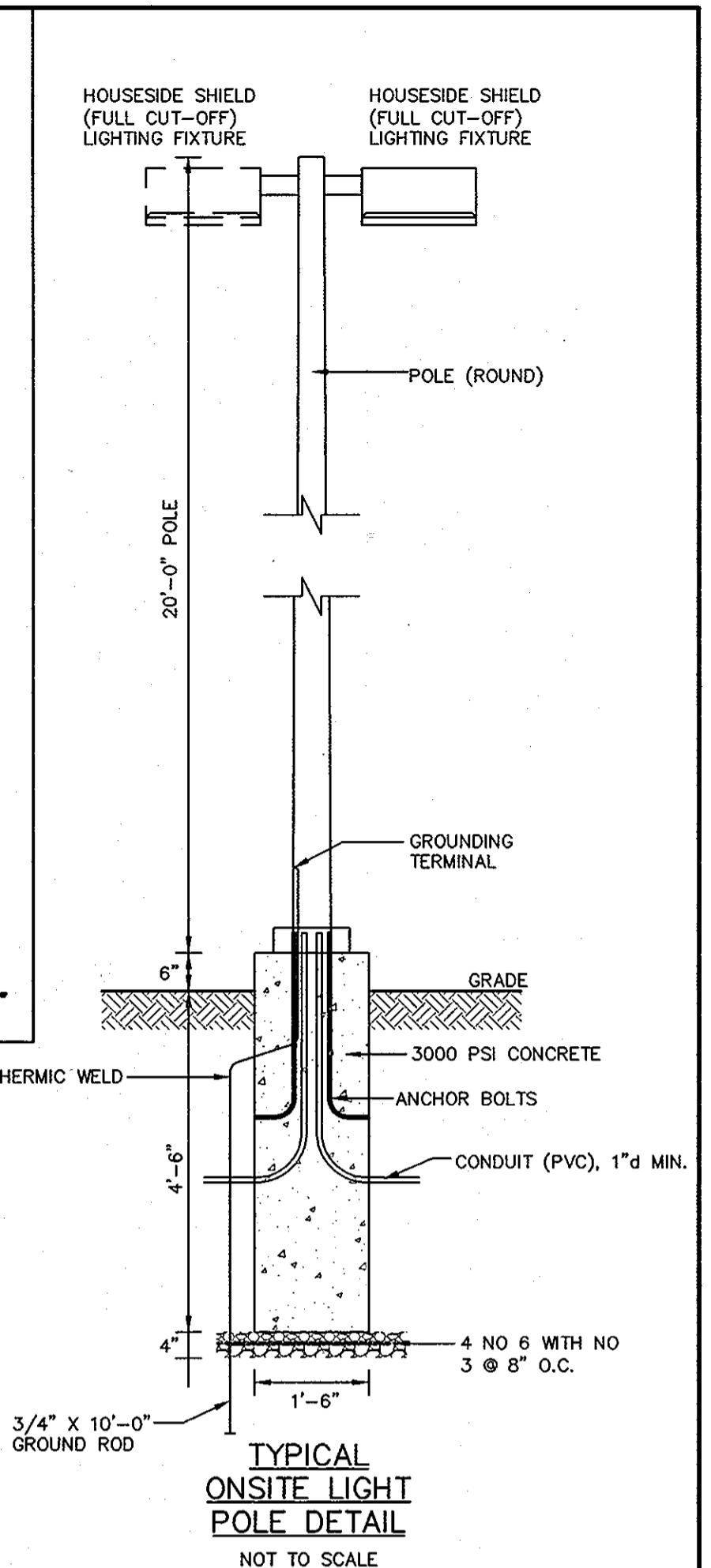
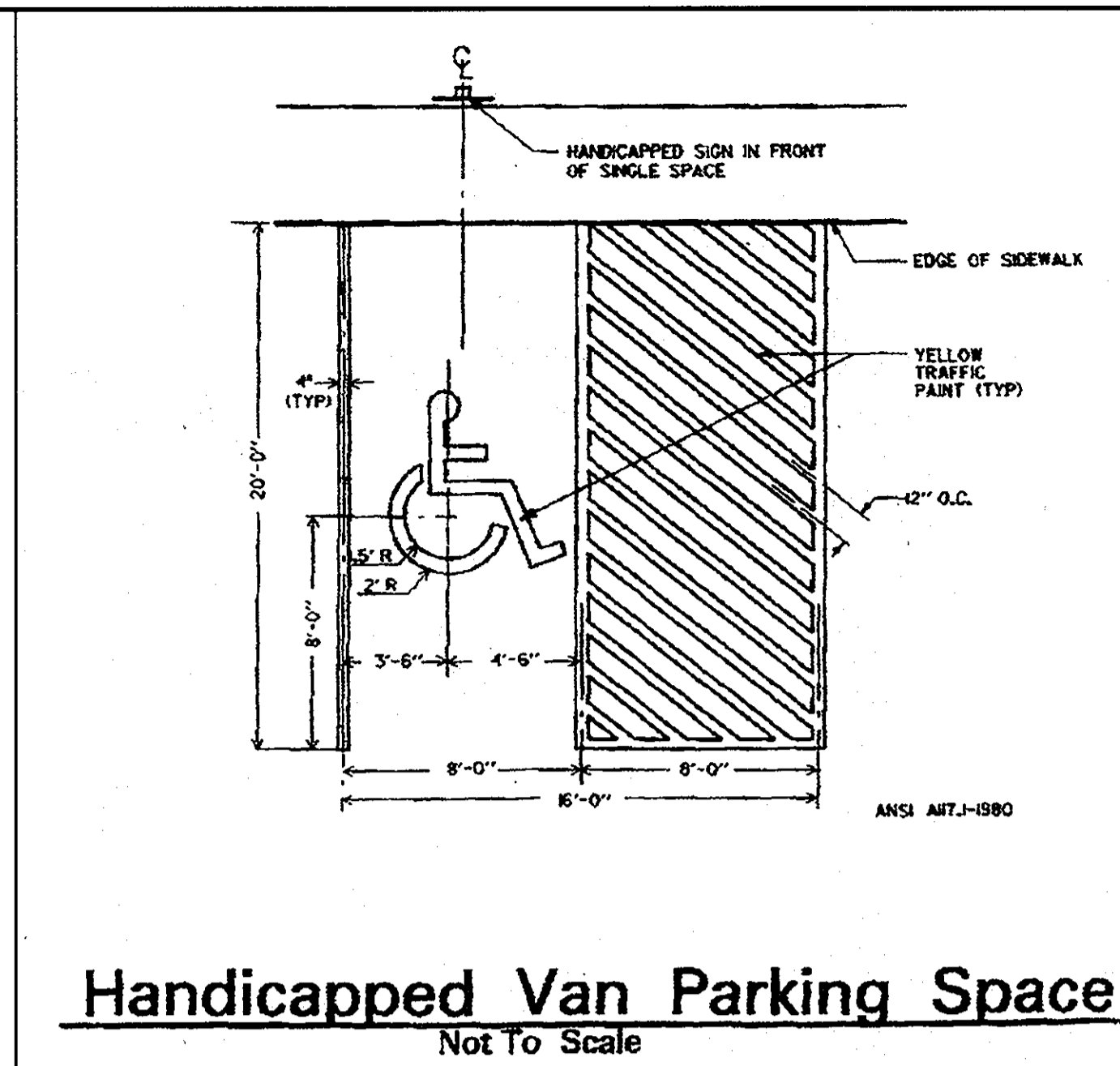
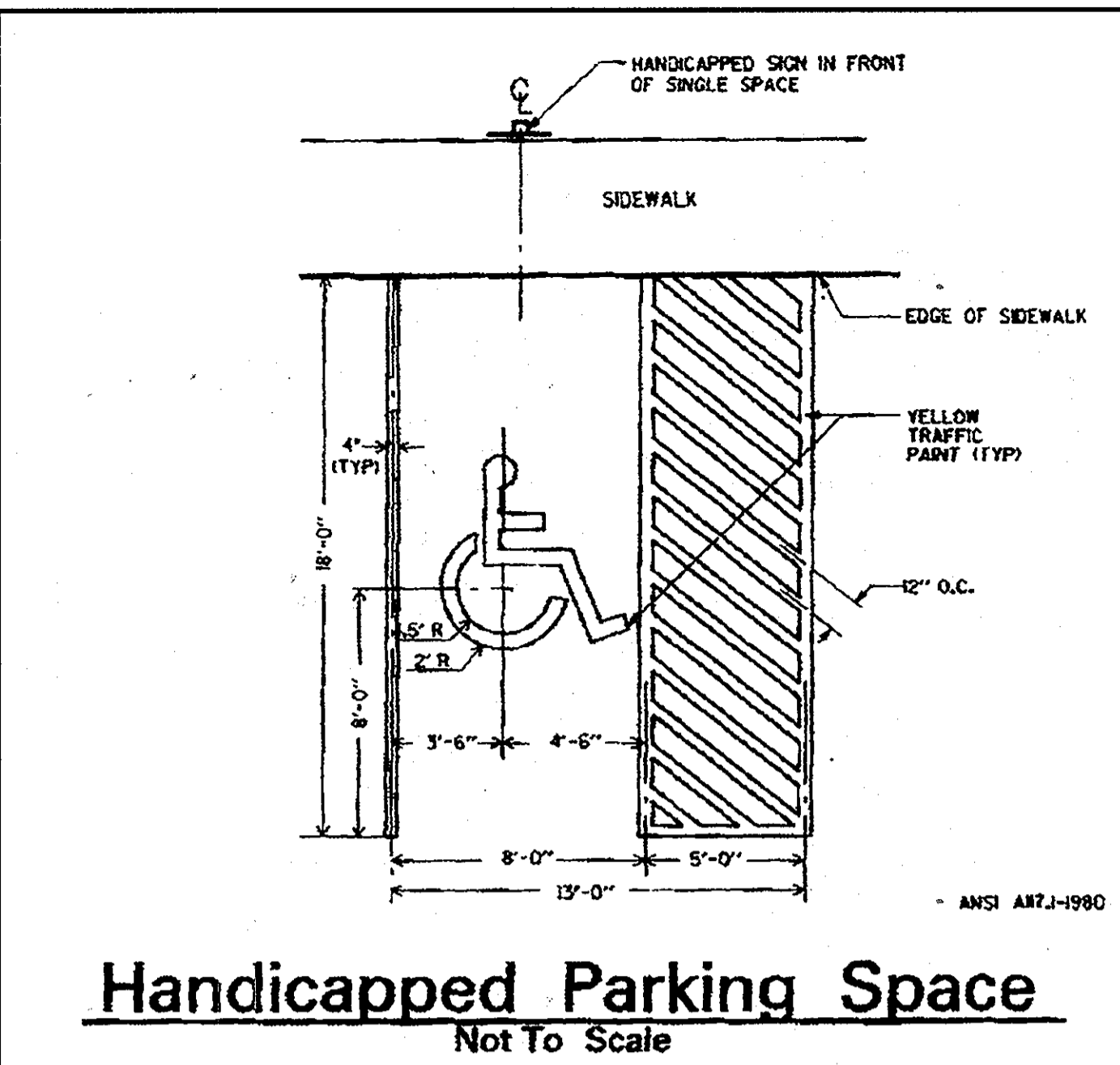
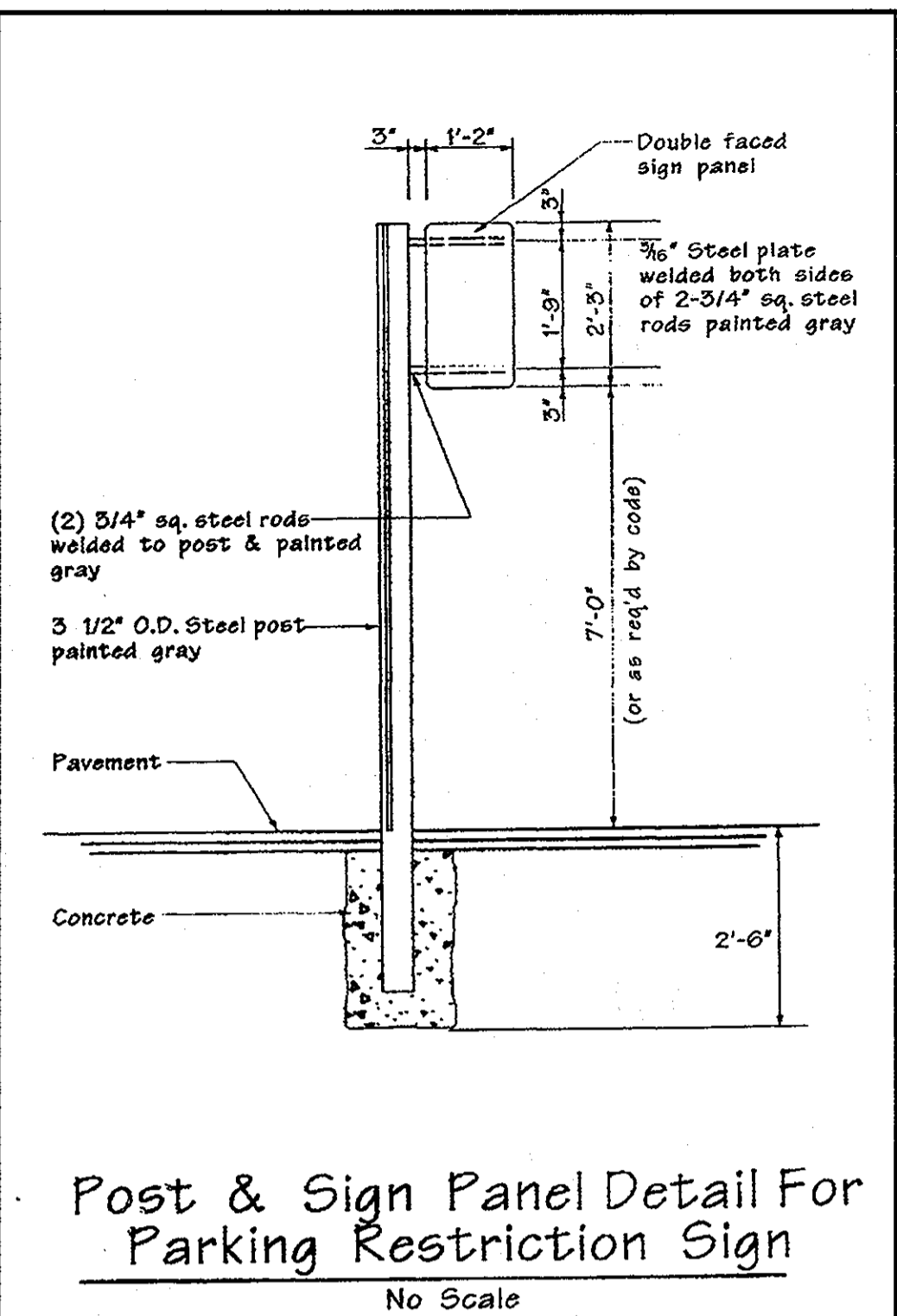
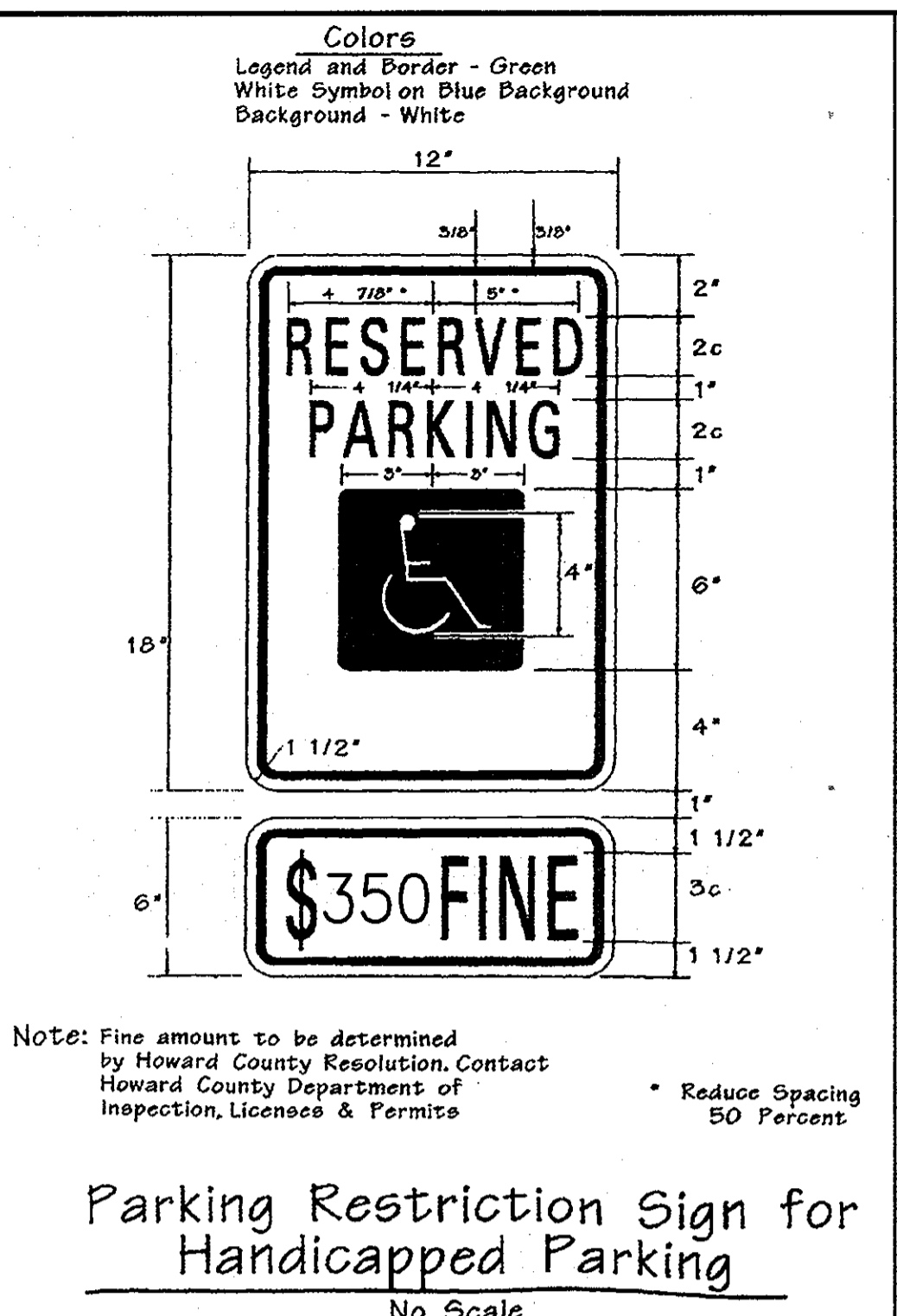
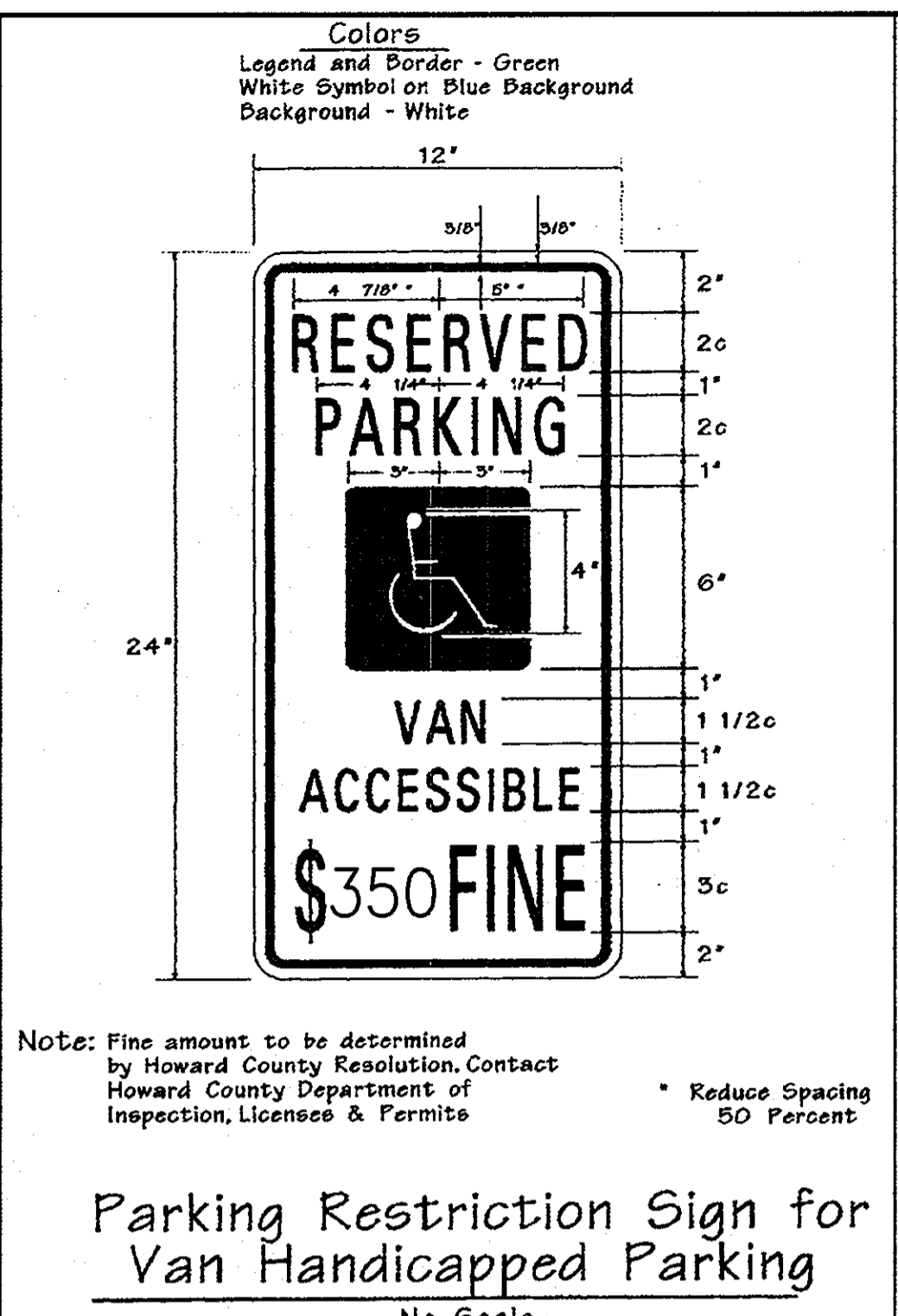
DEVELOPER:
H&H ROCK
 6800 DEERPATH ROAD
 SUITE 100
 ELK RIDGE, MD 21075
 410-579-2442

| L.A.I. | BY | NO. | REVISION | DATE |
|--------|----|-----|---------------------|---------|
| | | | ADDED BUILDINGS C&D | 10/2012 |
| | | | ADDED SHEETS 20-22 | |

**BUILDING ELEVATIONS
REVISED SDP-07-078
MINSTREL CROSSING II
MINSTREL CROSSING SUBDIVISION
LOTS 24 THROUGH 28**

ELECTION DISTRICT 6
 PLAT REF. 19555, 17/35, 24/99
 SCALE: AS SHOWN
 DRG NO.: SDP-7

HOWARD COUNTY, MD
 M 42 G 3, 9 P 375, 399
 MAY 29, 2008
 SHEET 7 OF 32



APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE 4/10/08
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE 4/10/08
DIRECTOR
DATE 4/10/08

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. 16019, EXPIRATION DATE 5/8/2010.

LITTLE & ASSOCIATES, INC.
ENGINEERS~LAND PLANNERS~SURVEYORS
1055 TAYLOR AVENUE, SUITE 307
TOWSON, MARYLAND 21286
PHONE: (410)296-1636 FAX: (410)296-1639

OWNER:
SNOWDEN ROCK, LLC;
TRANSITION ROCK, LLC; PILL ROCK, LLC
C/O H&H ROCK
6800 DEERPATH ROAD
ELK RIDGE, MD 21075
410-579-2442

OTO ROCK, LLC; COLEMAN ROCK, LLC
C/O OTO DEVELOPMENT
961 E. MAIN STREET
SPARTANBURG, SC 29302
864-327-4035

DEVELOPER:
H&H ROCK
6800 DEERPATH ROAD
SUITE 100
ELK RIDGE, MD 21075
410-579-2442

CHEVY CHASE BANK, F.S.B.
7501 WISCONSIN AVENUE, 9TH FLR
BETHESDA, MD 20814
240-497-7032

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE 04/10/08

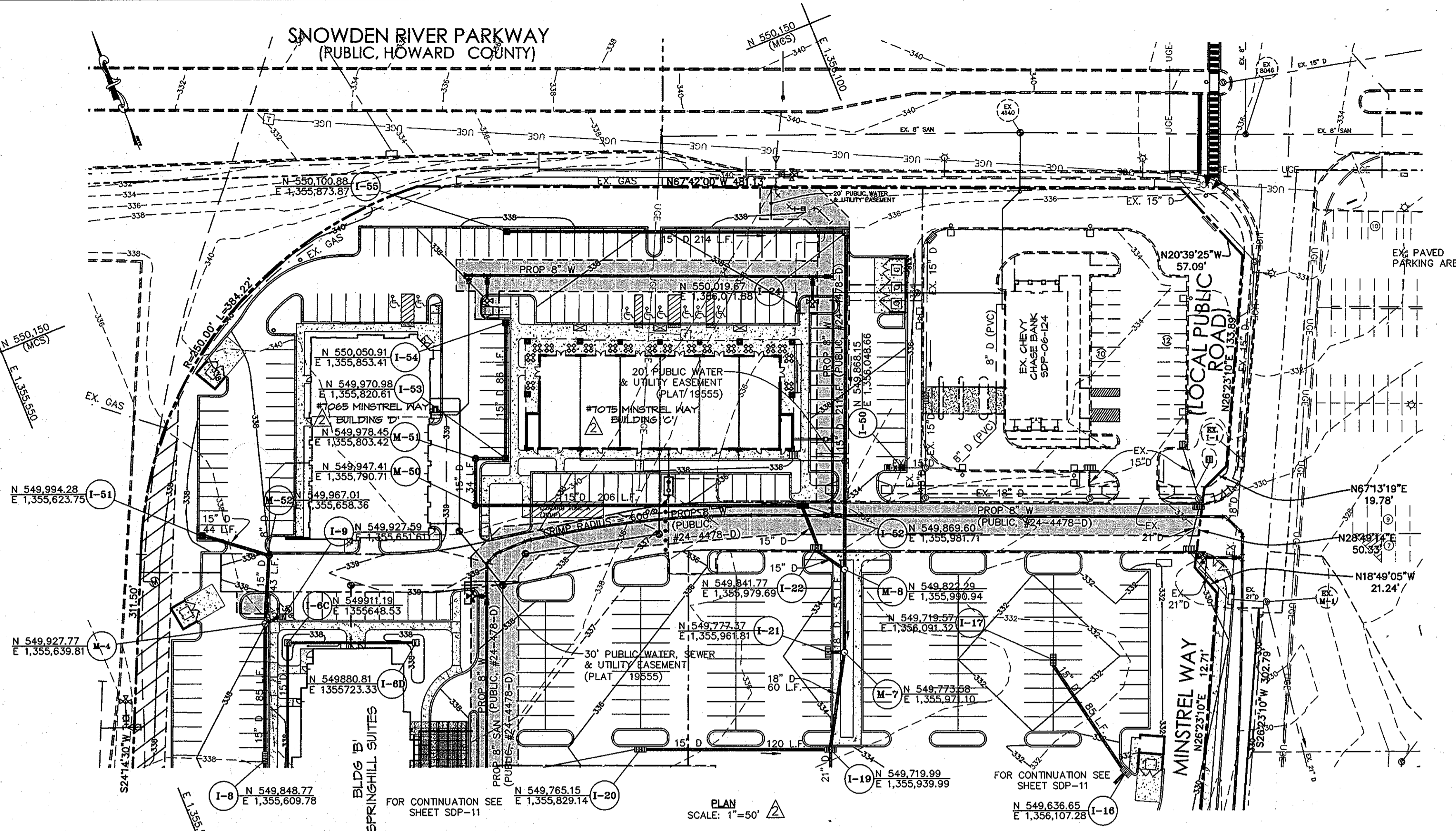
SITE DETAILS
REVISED SDP-07-078
MINSTREL CROSSING II
MINSTREL CROSSING SUBDIVISION
LOTS 24 THROUGH 28

ELECTION DISTRICT 6
PLAT REF. 19555, 17/35, 24/99
SCALE: AS SHOWN
DRG NO.: SDP-8

HOWARD COUNTY, MD
M 42 G 3, 9 P 375, 399
MAY 16, 2008
SHEET 8 OF 32

LAI
BY No. REVISION DATE
10/2012
ADDED BUILDINGS C/P
ADDED SHEETS 20-32

SNOWDEN RIVER PARKWAY
(PUBLIC, HOWARD COUNTY)



PLAN
SCALE: 1"=50'

LEGEND

- EXISTING CONTOUR ——— 136
- PROPOSED CONTOUR ——— 136
- EXISTING FENCE ——— X
- PROPERTY LINE ———
- EX. GAS LINE ———
- PROPOSED MANHOLE (M)
- PROPOSED INLET (I)

INLET SCHEDULE - PRIVATE

| NO. | TYPE | Q | INV. OUT | FLOW LINE ELEV. | REMARKS |
|------|------------|------|----------|-----------------|---------|
| I-9 | WR | 0.88 | 330.45 | 337.90 | SD 4.37 |
| I-20 | DBL'S'COMB | 1.11 | 326.07 | 335.27 | SD 4.34 |
| I-21 | DBL'S'COMB | 2.34 | 324.35 | 333.30 | SD 4.34 |
| I-22 | DBL'S'COMB | 0.51 | 325.22 | 334.32 | SD 4.34 |
| I-24 | WR | 2.54 | 327.11 | 335.50 | SD 4.37 |
| I-50 | WR | 2.64 | 329.27 | 333.80 | SD 4.37 |
| I-51 | WR | 3.03 | 331.42 | 337.00 | SD 4.37 |
| I-52 | DBL'S'COMB | 3.57 | 325.70 | 334.71 | SD 4.34 |
| I-53 | WR | 1.06 | 328.89 | 337.90 | SD 4.37 |
| I-54 | WR | 0.51 | 329.95 | 337.90 | SD 4.37 |
| I-55 | WR | 3.06 | 329.45 | 338.16 | SD 4.37 |

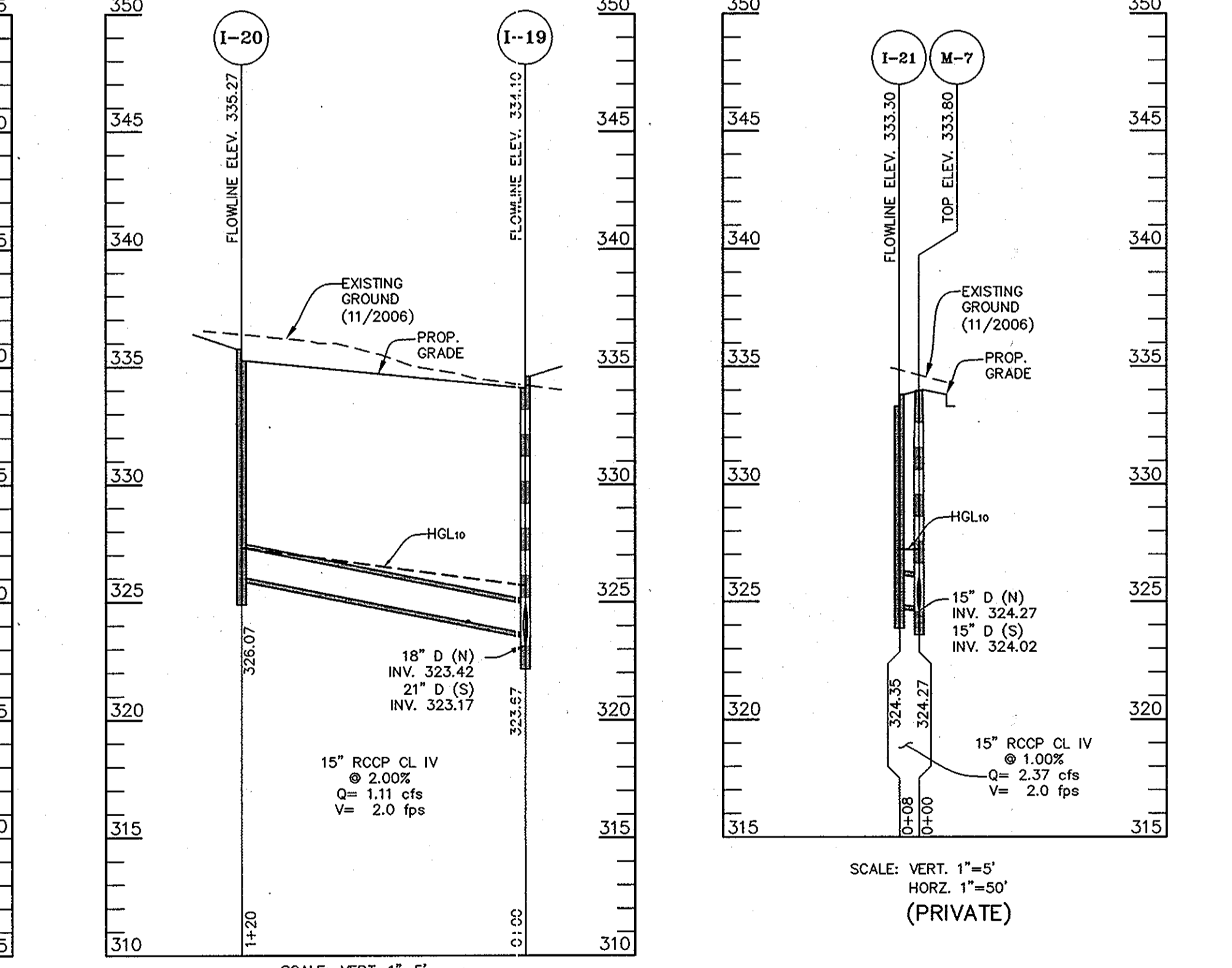
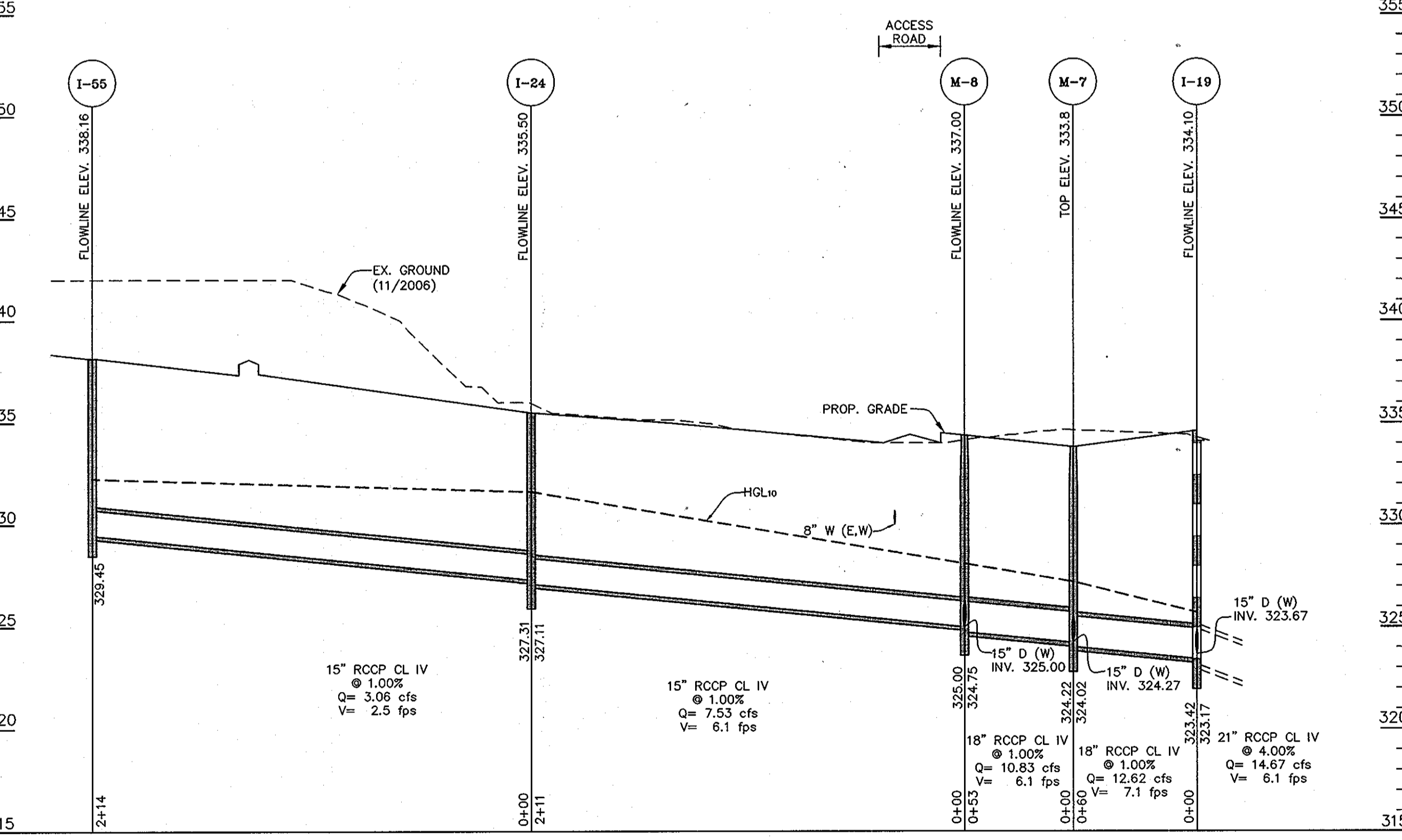
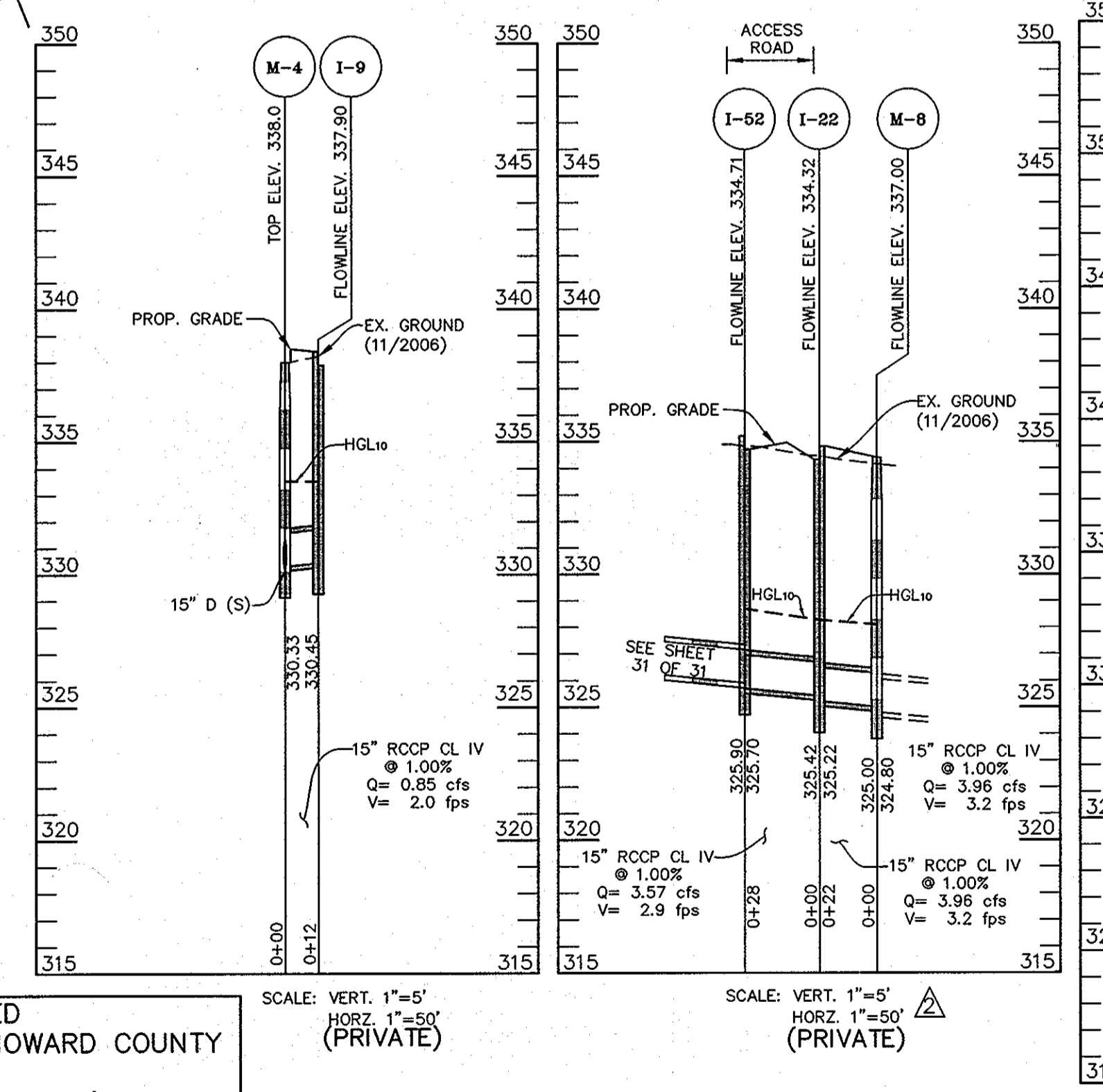
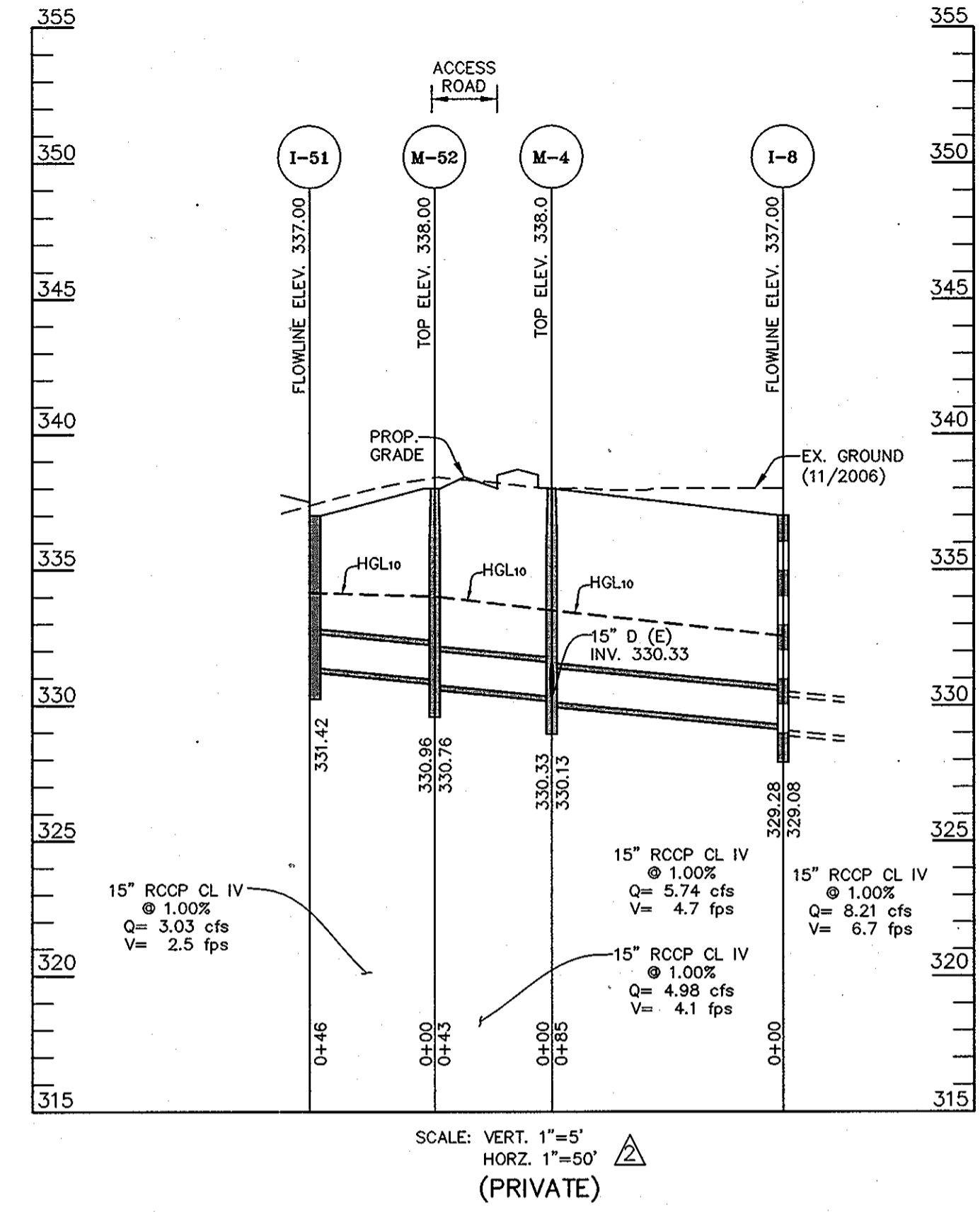
MANHOLE SCHEDULE - PRIVATE

| NO. | TYPE | SIZE | INV. OUT | TOP ELEV. | REMARKS |
|------|------|------|----------|-----------|---------|
| M-4 | STD | 48" | 330.13 | 338.00 | G 5.03 |
| M-7 | STD | 48" | 324.02 | 333.80 | G 5.13 |
| M-8 | STD | 48" | 324.80 | 334.50 | G 5.13 |
| M-50 | STD | 48" | 327.96 | 338.44 | G 5.13 |
| M-51 | STD | 48" | 328.50 | 338.40 | G 5.13 |
| M-52 | STD | 48" | 338.00 | 330.76 | G 5.13 |

PRIVATE STORM DRAIN PIPE SCHEDULE

| SIZE | TYPE | LINEAR FEET |
|------|------------|-------------|
| 15" | RCCP CL IV | 732' |
| 18" | RCCP CL IV | 60' |

NOTE: FOR DRAINAGE AREA AND VICINITY MAPS SEE SHEET SDP-9



APPROVED
PLANNING BOARD OF HOWARD COUNTY

DATE 04/10/2008 AND 05/24/2012

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DIRECTOR

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. 16019, EXPIRATION DATE 5/8/2014.



LITTLE & ASSOCIATES, INC.
 ENGINEERS~LAND PLANNERS~SURVEYORS
 1055 TAYLOR AVENUE, SUITE 307
 TOWSON, MARYLAND 21286
 PHONE: (410)296-1636 FAX: (410)296-1639

OWNER:
 SNOWDEN ROCK, LLC; OTO ROCK, LLC; COLEMAN ROCK, LLC
 TRANSITION ROCK, LLC; PILL ROCK, LLC
 C/O OTO DEVELOPMENT
 C/O H&H ROCK
 6800 DEERPATH ROAD
 ELK RIDGE, MD 21075
 410-579-2442

DEVELOPER:
 H&H ROCK
 6800 DEERPATH ROAD
 SUITE 100
 ELK RIDGE, MD 21075
 410-579-2442

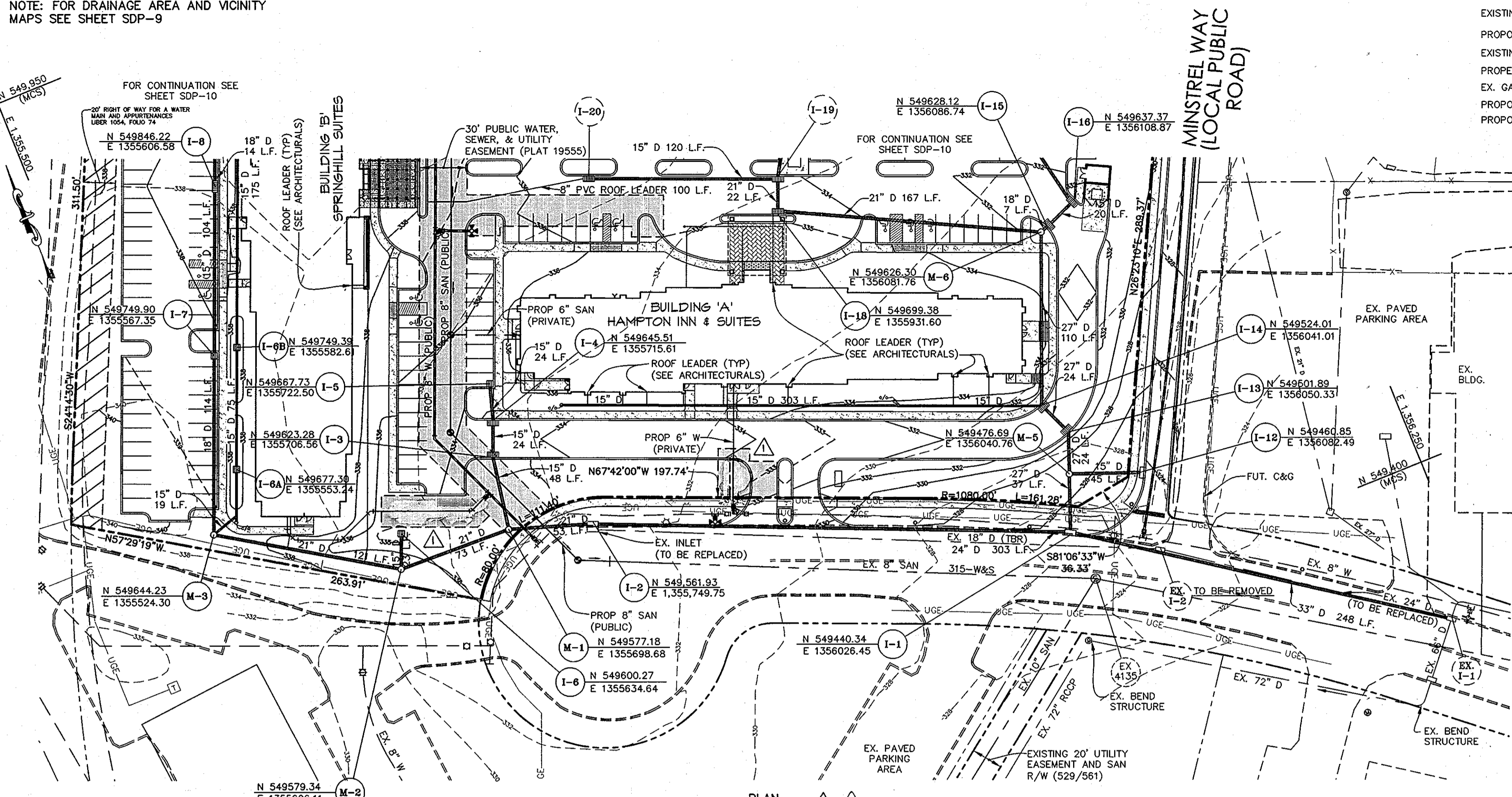
| NO. | REVISION | DATE |
|-----|-----------------------------|-------|
| 1 | ADDED BUILDINGS 'C' AND 'D' | 10/12 |
| 2 | ADDED SHEETS 30-32 | |

STORM DRAIN PLAN & PROFILES
 REVISED SDP-07-078
MINSTREL CROSSING II
 MINSTREL CROSSING SUBDIVISION
 LOTS 24 THROUGH 28

ELECTION DISTRICT 6
 PLAT REF. 19555, 17/35, 24/99
 SCALE: AS SHOWN
 DRG NO.: SDP-10

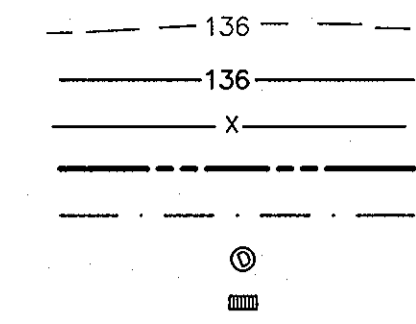
HOWARD COUNTY, MD
 M 42 G 3, 9 P 375, 399
 MAY 16, 2008
 SHEET 10 OF 32

NOTE: FOR DRAINAGE AREA AND VICINITY MAPS SEE SHEET SDP-9



- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING FENCE
- PROPERTY LINE
- EX. GAS LINE
- PROPOSED MANHOLE
- PROPOSED INLET

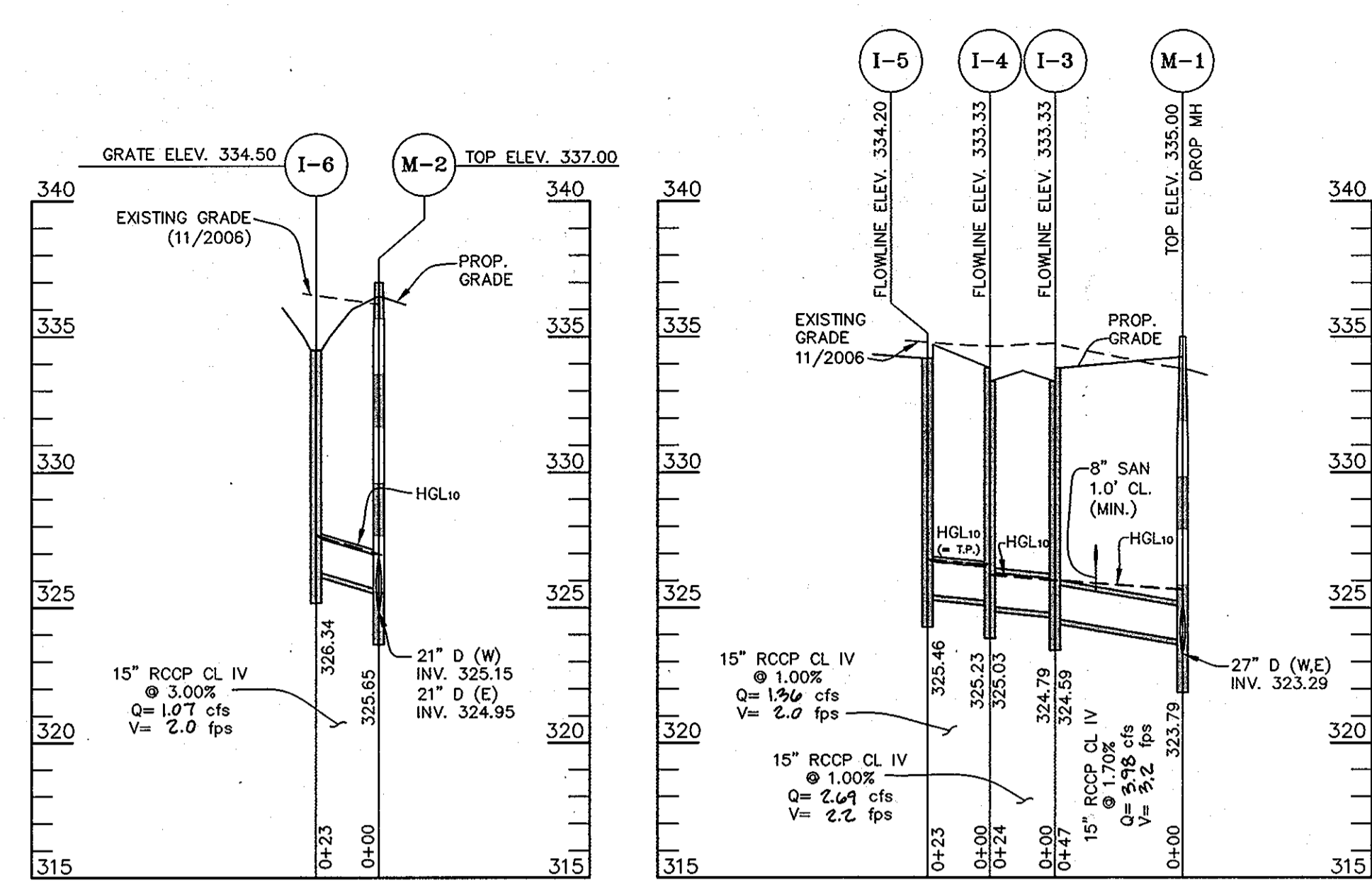
LEGEND



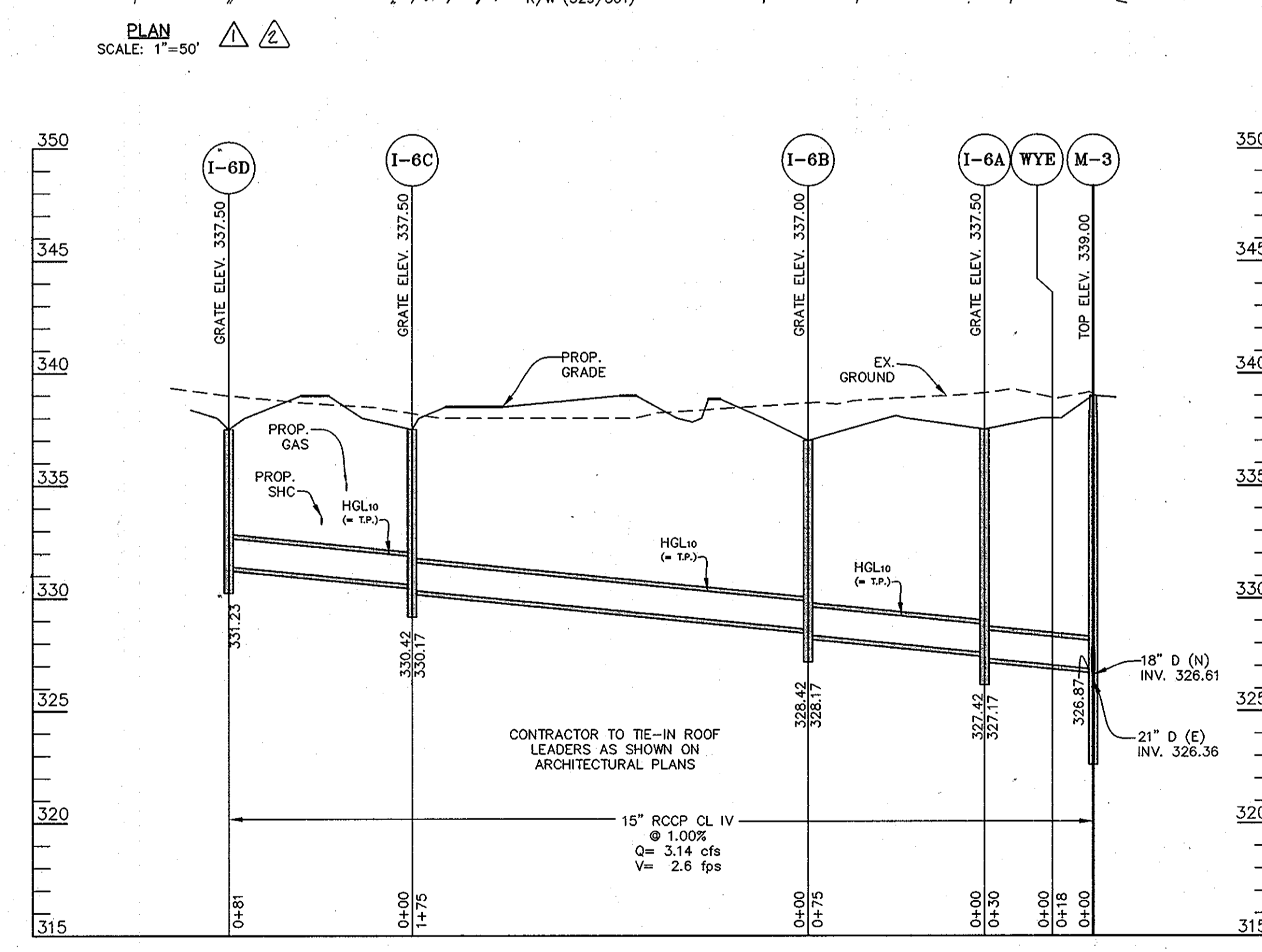
| PRIVATE INLET SCHEDULE | | | | | |
|------------------------|-------------|------|----------|-----------------|---------|
| NO. | TYPE | Q | INV. OUT | FLOW LINE ELEV. | REMARKS |
| I-3 | DBL'S' COMB | 1.07 | 324.59 | 333.33 | SD 4.34 |
| I-4 | DBL'S' COMB | 1.07 | 325.03 | 333.33 | SD 4.34 |
| I-5 | WR | 1.07 | 325.46 | 334.20 | SD 4.37 |
| I-6 | YARD INLET | 1.07 | 326.34 | 334.50 | SD 4.14 |
| I-6A | YARD INLET | 0.21 | 327.17 | 337.50 | SD 4.14 |
| I-6B | YARD INLET | 0.20 | 328.17 | 337.00 | SD 4.14 |
| I-6C | YARD INLET | 0.25 | 330.17 | 337.50 | SD 4.14 |
| I-6D | YARD INLET | 0.36 | 331.23 | 337.50 | SD 4.14 |

| PRIVATE STORM DRAIN PIPE SCHEDULE | | | |
|-----------------------------------|------------|-------------|--|
| SIZE | TYPE | LINEAR FEET | |
| 15" | RCCP CL IV | 809 | |

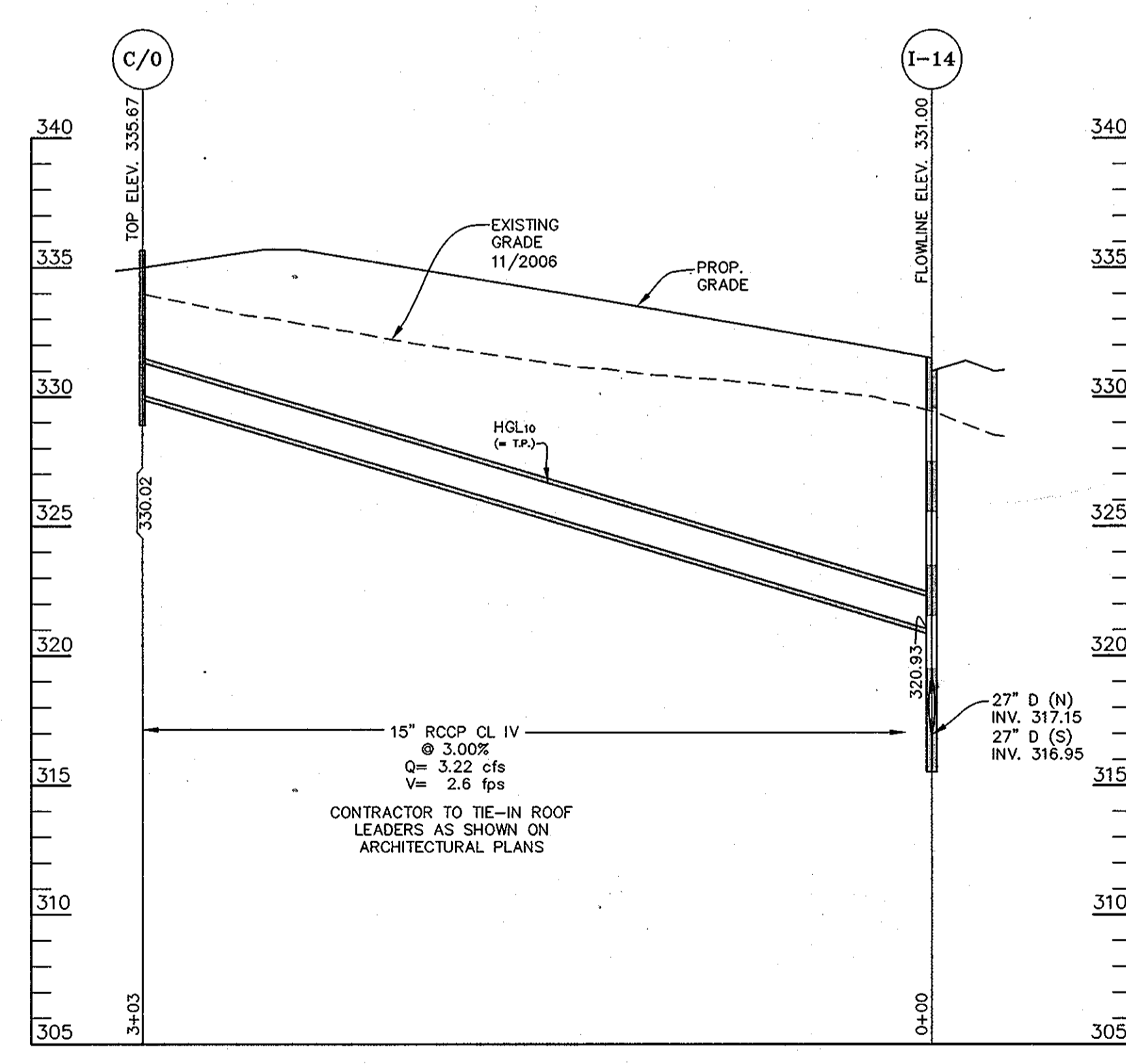
| PUBLIC INLET SCHEDULE | | | | | |
|-----------------------|------|------|----------|-----------------|---------|
| NO. | TYPE | Q | INV. OUT | FLOW LINE ELEV. | REMARKS |
| I-12 | A-5 | 2.20 | 318.14 | 323.90 | SD 4.01 |



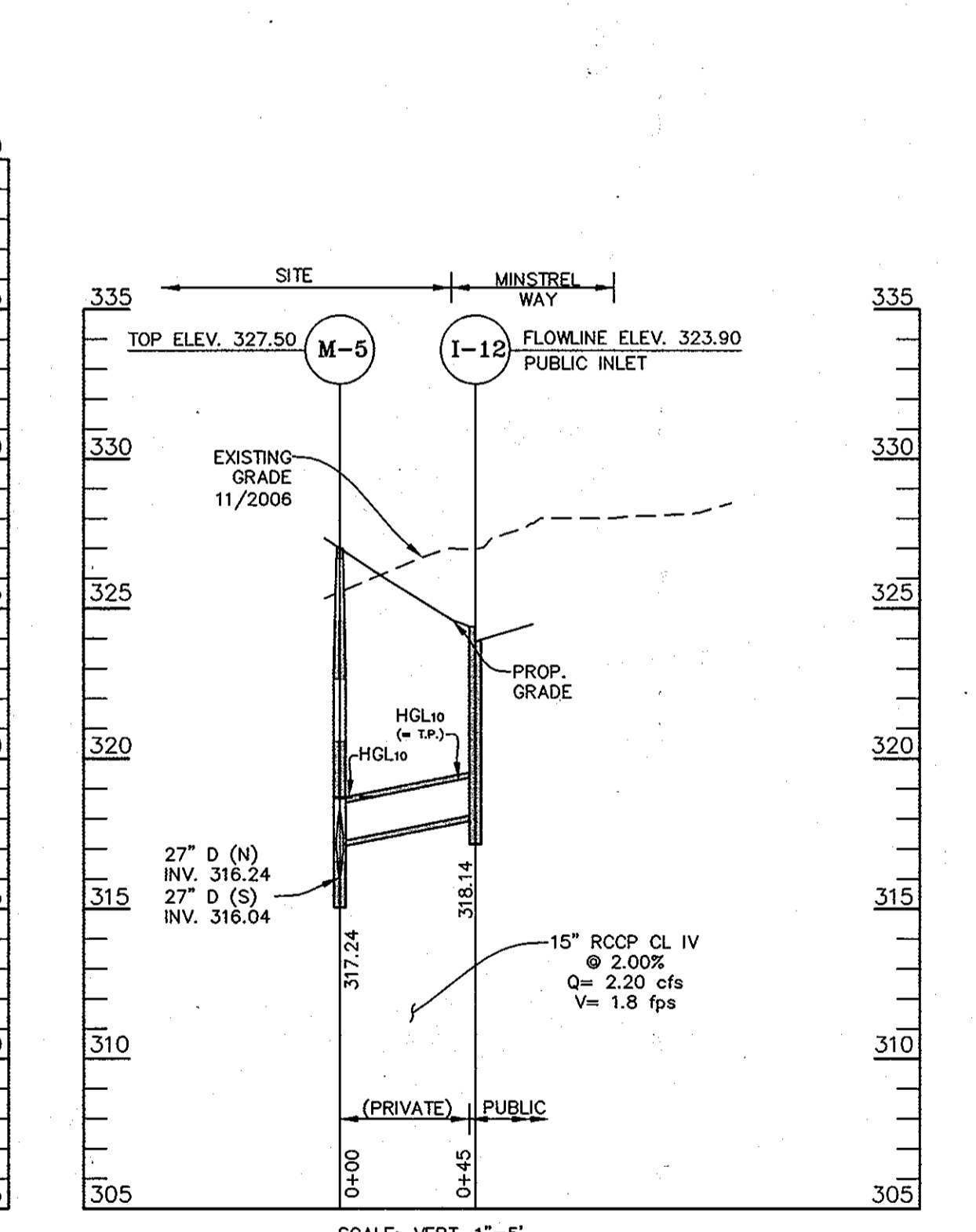
SCALE: VERT. 1"=5'
HORIZ. 1"=50'
(PRIVATE)



SPRINGHILL SUITES 15" ROOF DRAIN COLLECTOR
SCALE: VERT. 1"=5'
HORIZ. 1"=50'
(PRIVATE)



HAMPTON INN AND SUITES 15" ROOF DRAIN COLLECTOR
SCALE: VERT. 1"=5'
HORIZ. 1"=50'
(PRIVATE)



SCALE: VERT. 1"=5'
HORIZ. 1"=50'

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 04/10/08

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. 16019, EXPIRATION DATE 5/8/2010.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE 5/6/08
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE 5/8/08
DIRECTOR



LITTLE & ASSOCIATES, INC.
ENGINEERS~LAND PLANNERS~SURVEYORS
1055 TAYLOR AVENUE, SUITE 307
TOWSON, MARYLAND 21286
PHONE: (410)296-1636 FAX: (410)296-1639

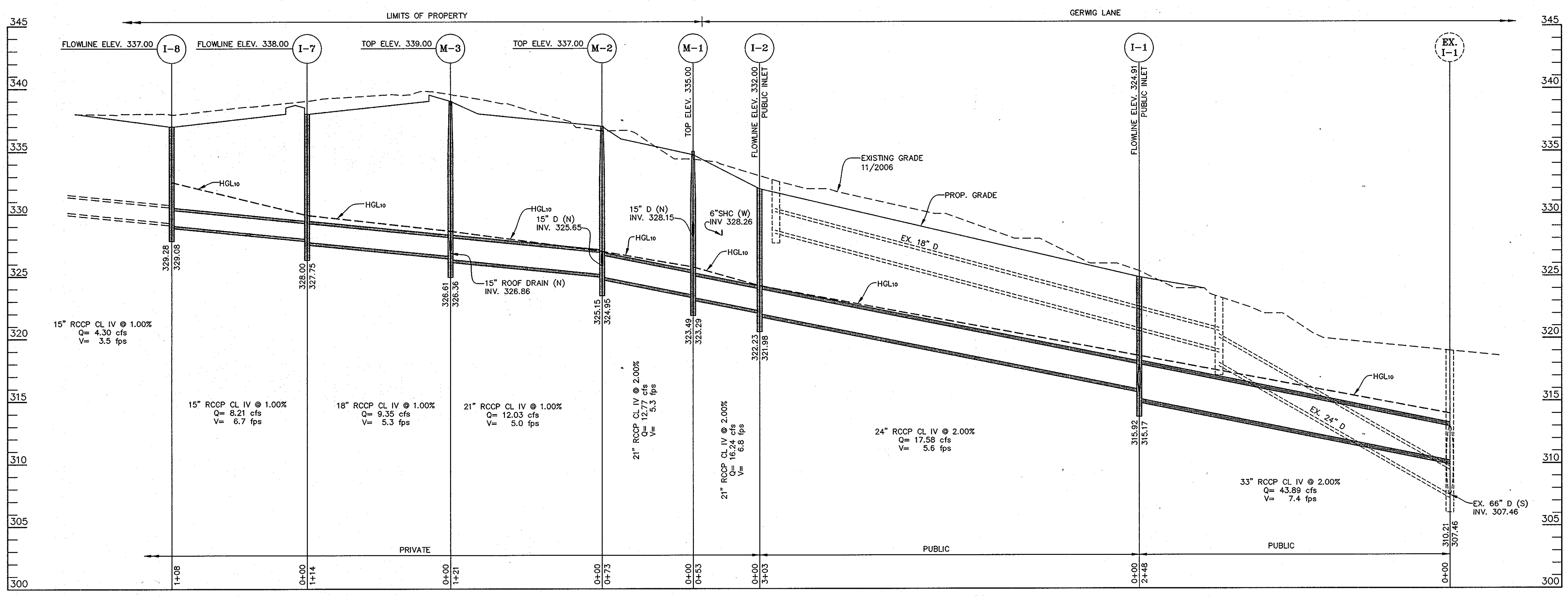
OWNER:
SNOWDEN ROCK, LLC; OTO ROCK, LLC; COLEMAN ROCK, LLC
TRANSITION ROCK, LLC; PILL ROCK, LLC
C/O OTO DEVELOPMENT
6800 DEERPATH ROAD
ELK RIDGE, MD 21075
410-579-2442
CHEVY CHASE BANK, F.S.B.
7501 WISCONSIN AVENUE, 9TH FLR
BETHESDA, MD 20814
240-497-7032

DEVELOPER:
H&H ROCK
6800 DEERPATH ROAD
SUITE 100
ELK RIDGE, MD 21075
410-579-2442

| L.A.I. | REVISION | DATE |
|--------|---|---------|
| 1 | ADDED BUILDINGS C/P, ADDED SHEETS 20-32 | 10/2012 |
| 2 | REMOVED OUTSIDE W/M VAULTS, USE INTERNAL WATER METERS | 8/24/08 |

STORM DRAIN PLAN & PROFILES
REVISED SDP-07-078
MINSTREL CROSSING II
MINSTREL CROSSING SUBDIVISION
LOTS 24 THROUGH 28
ELECTION DISTRICT 6
PLAT REF. 19555, 17/35, 24/99
SCALE: AS SHOWN
DRG NO.: SDP-11
HOWARD COUNTY, MD
M 42 G 3, 9 P 375, 399
MAY 16, 2008
SHEET 11 OF 32

NOTE: FOR DRAINAGE AREA AND VICINITY MAPS SEE SHEET SDP-10



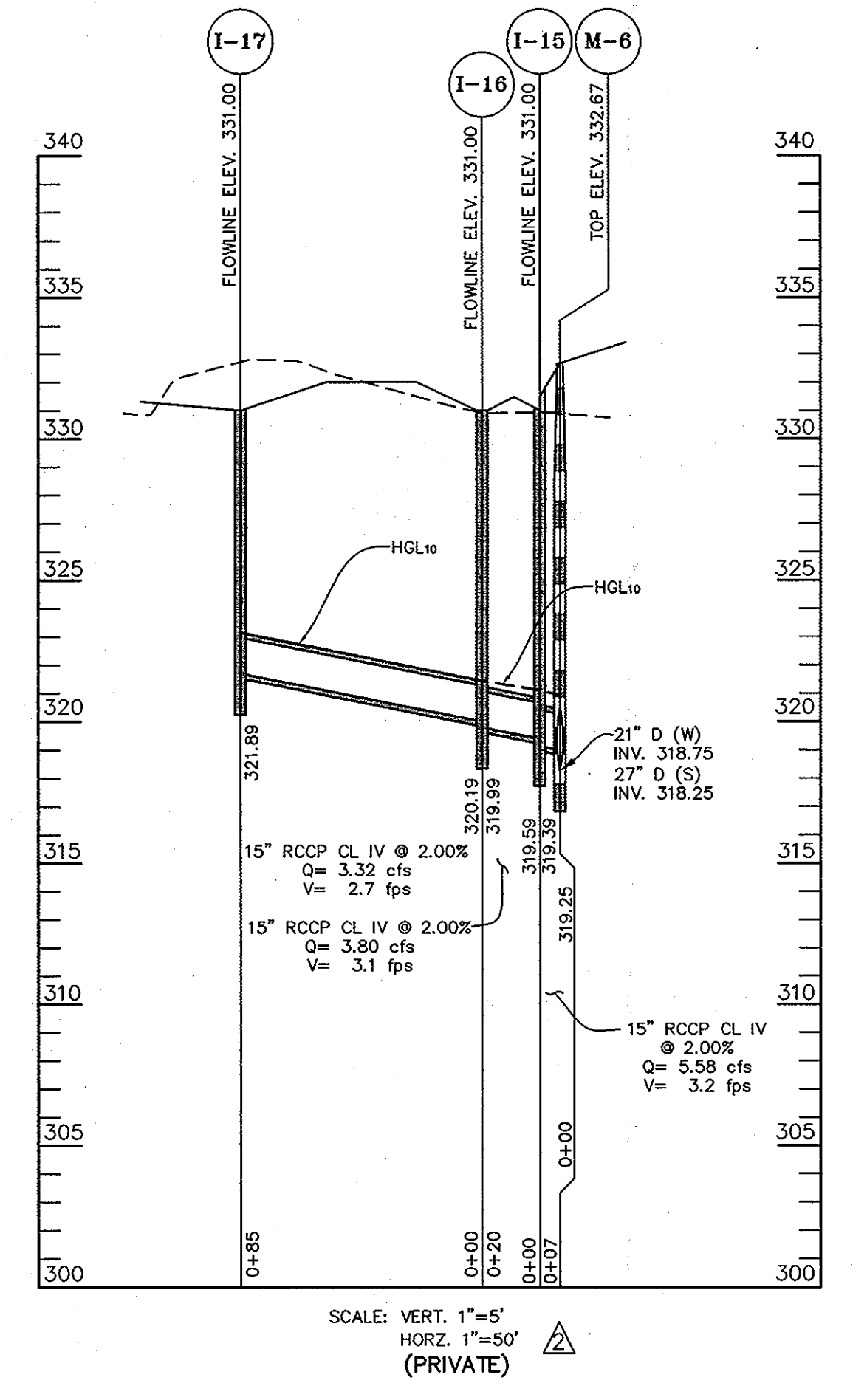
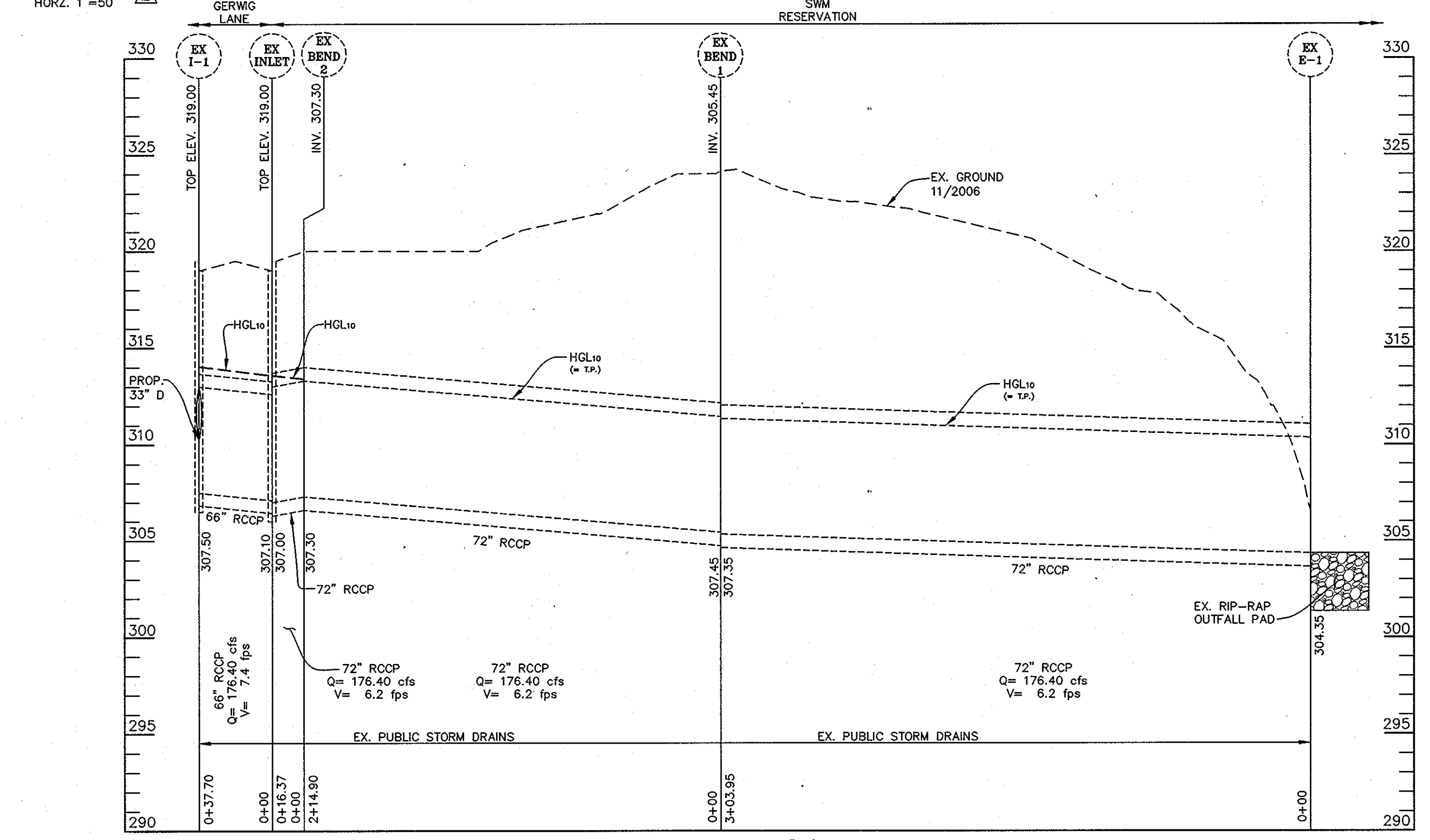
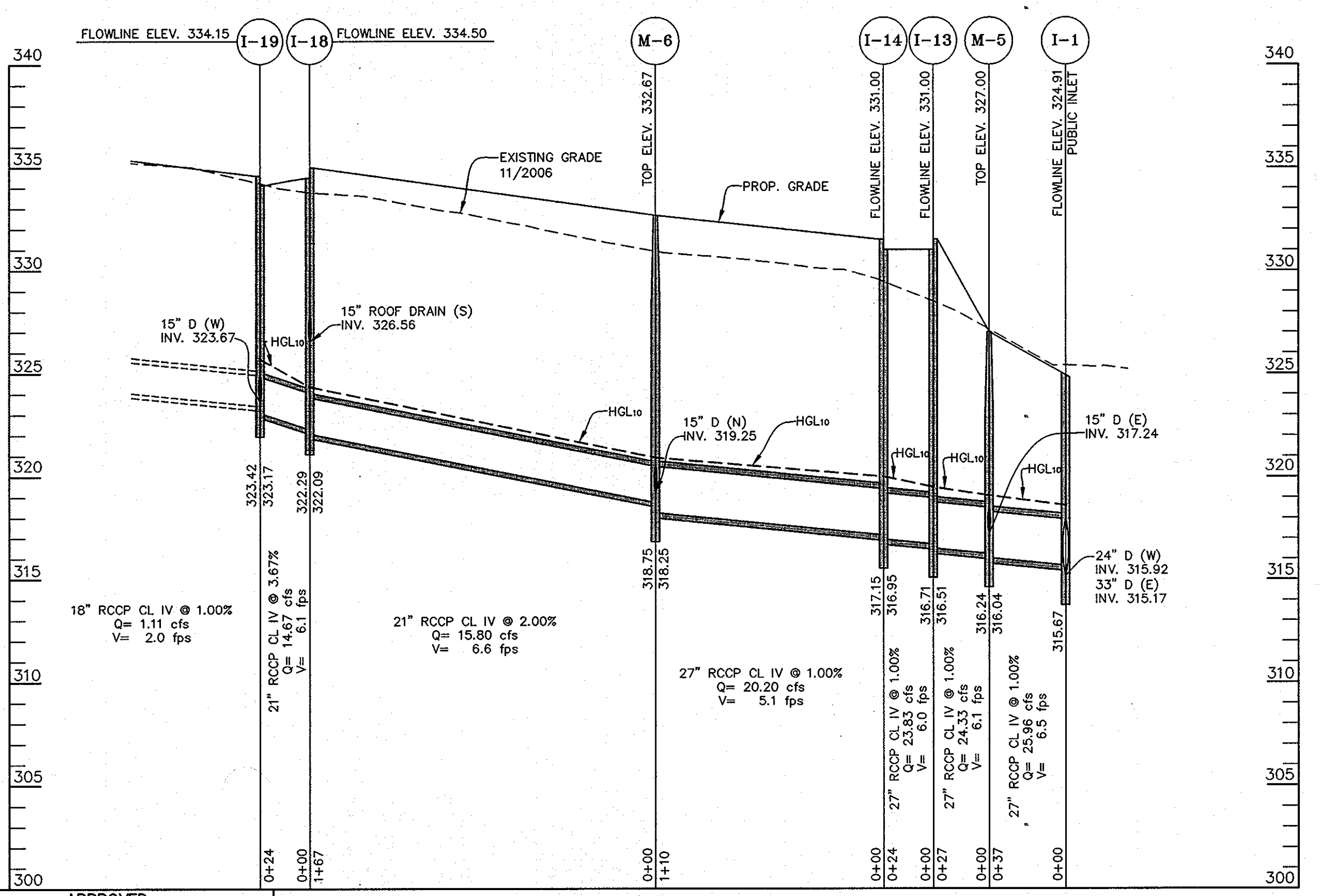
| NO. | TYPE | Q | INV. OUT | FLOW LINE ELEV. | REMARKS |
|------|------------|------|----------|-----------------|---------|
| I-7 | HR | 1.37 | 327.75 | 336.00 | SD 4.37 |
| I-8 | DBL'S'COMB | 2.73 | 329.08 | 337.00 | SD 4.34 |
| I-13 | DBL'S'COMB | 0.77 | 316.51 | 331.00 | SD 4.34 |
| I-14 | DBL'S'COMB | 4.98 | 316.95 | 331.00 | SD 4.34 |
| I-15 | DBL'S'COMB | 1.85 | 319.39 | 331.00 | SD 4.34 |
| I-16 | DBL'S'COMB | 0.59 | 319.99 | 331.00 | SD 4.34 |
| I-17 | DBL'S'COMB | 3.32 | 321.89 | 331.00 | SD 4.34 |
| I-18 | DBL'S'COMB | 1.45 | 322.09 | 334.50 | SD 4.34 |
| I-19 | DBL'S'COMB | 1.45 | 323.17 | 334.15 | SD 4.34 |

| NO. | TYPE | SIZE | INV. OUT | TOP ELEV. | REMARKS |
|-----|------|------|----------|-----------|---------|
| M-1 | STD | 60" | 323.29 | 335.00 | G 5.13 |
| M-2 | STD | 60" | 324.95 | 337.00 | G 5.13 |
| M-3 | STD | 60" | 326.36 | 339.00 | G 5.13 |
| M-5 | STD | 48" | 316.04 | 327.00 | G 5.12 |
| M-6 | STD | 48" | 318.25 | 332.67 | G 5.12 |

| SIZE | TYPE | LINEAR FEET |
|------|------------|-------------|
| 15" | RCCP CL IV | 220 |
| 18" | RCCP CL IV | 114 |
| 21" | RCCP CL IV | 438 |
| 27" | RCCP CL IV | 198 |

| NO. | TYPE | Q | INV. OUT | FLOW LINE ELEV. | REMARKS |
|-----|------|------|----------|-----------------|---------|
| I-1 | A-5 | 3.06 | 315.17 | 324.91 | SD 4.01 |
| I-2 | A-5 | 1.65 | 321.98 | 332.00 | SD 4.01 |

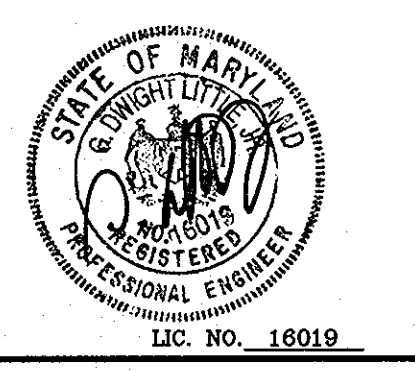
| SIZE | TYPE | LINEAR FEET |
|------|------------|-------------|
| 24" | RCCP CL IV | 303 |
| 33" | RCCP CL IV | 248 |



APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE 04/10/2008 AND 05/24/2011

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. 16019, EXPIRATION DATE 5/9/2014.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
DIRECTOR

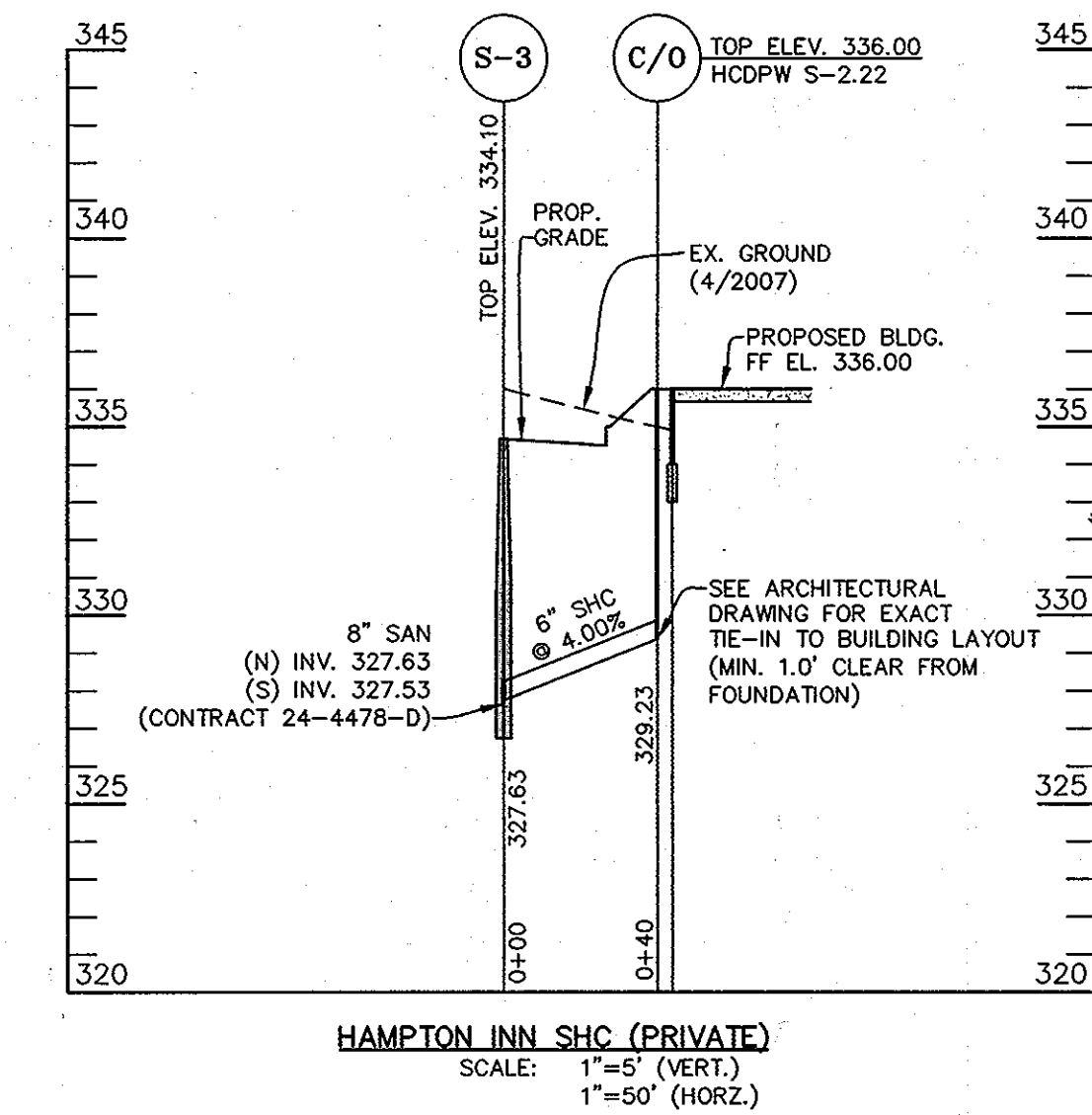
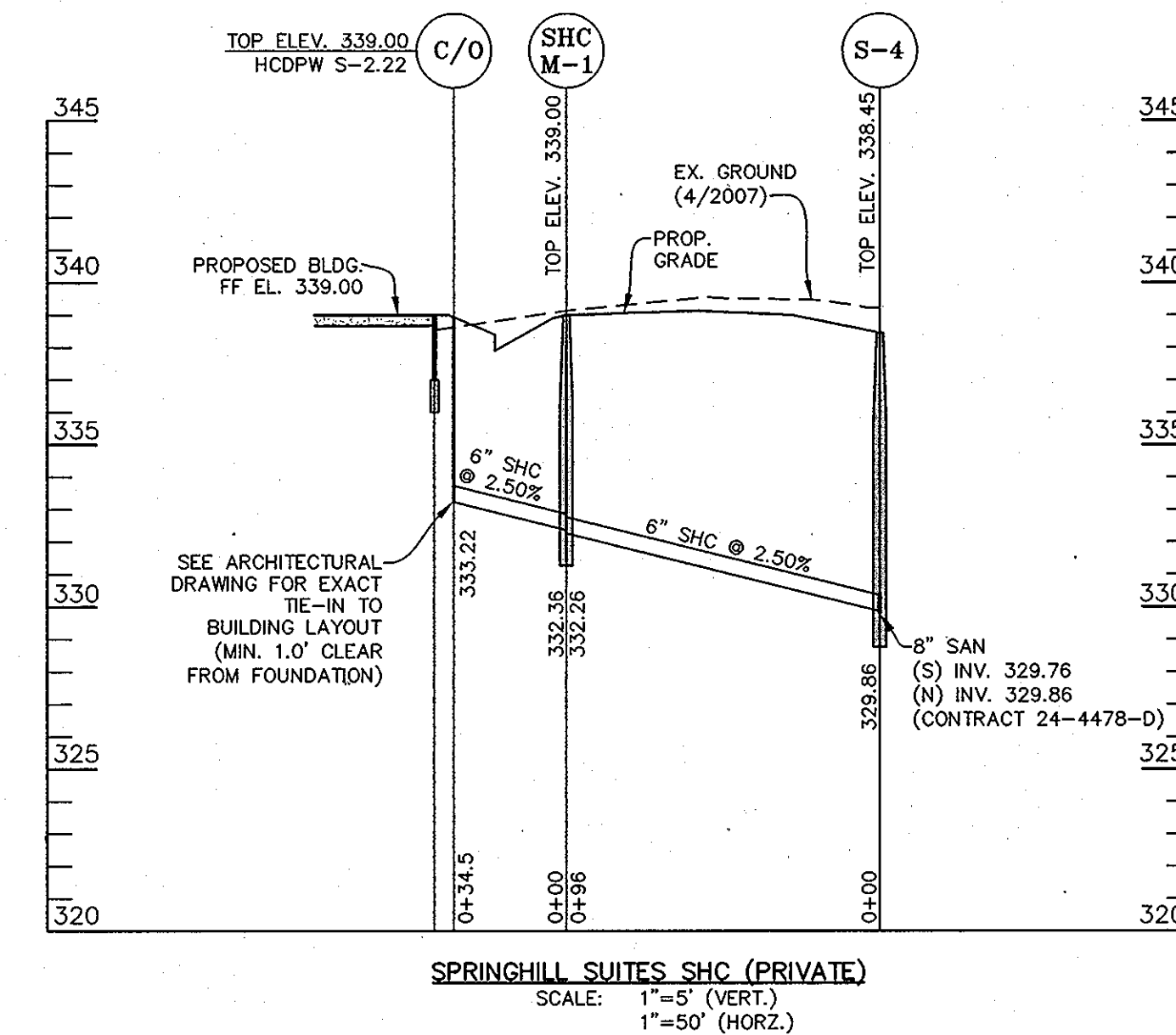
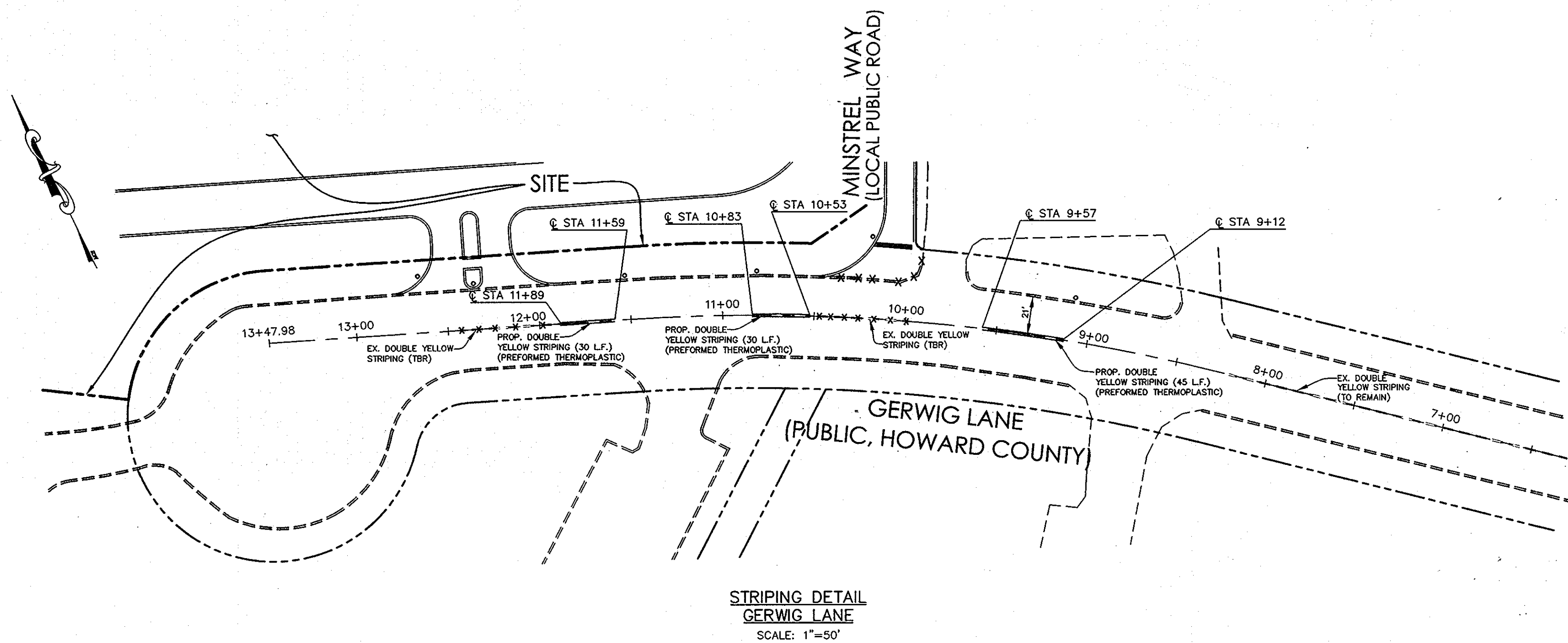
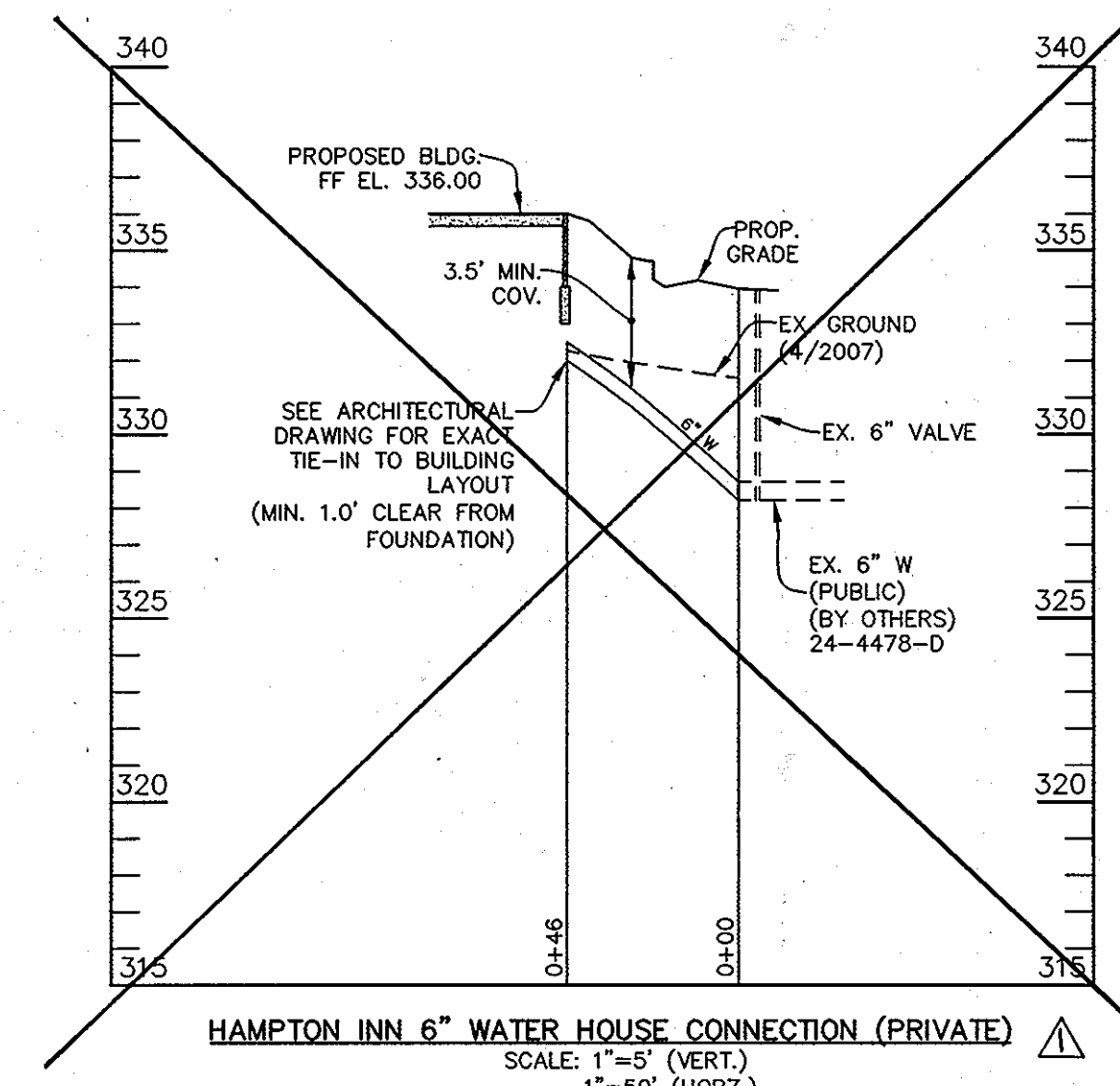
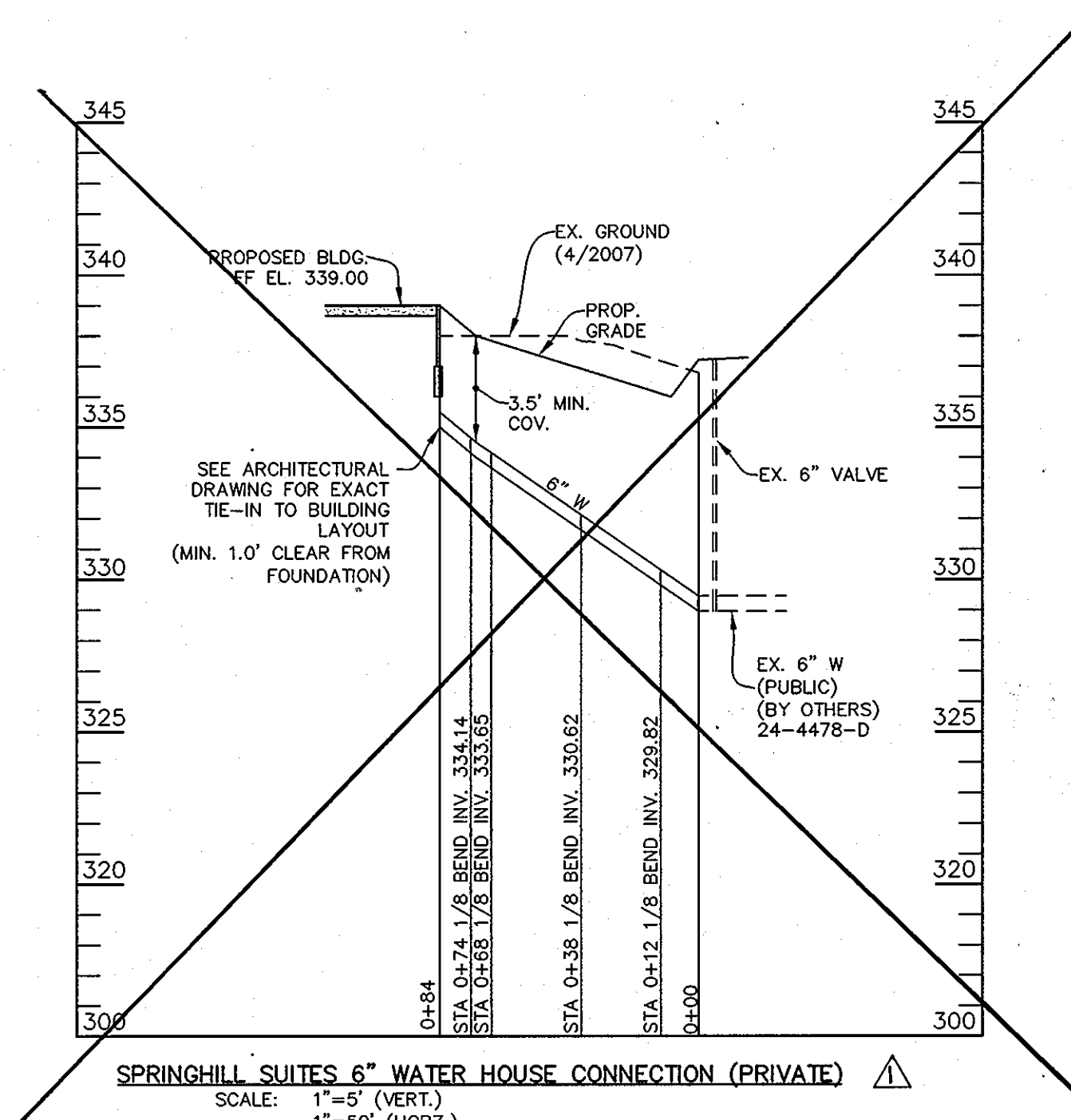
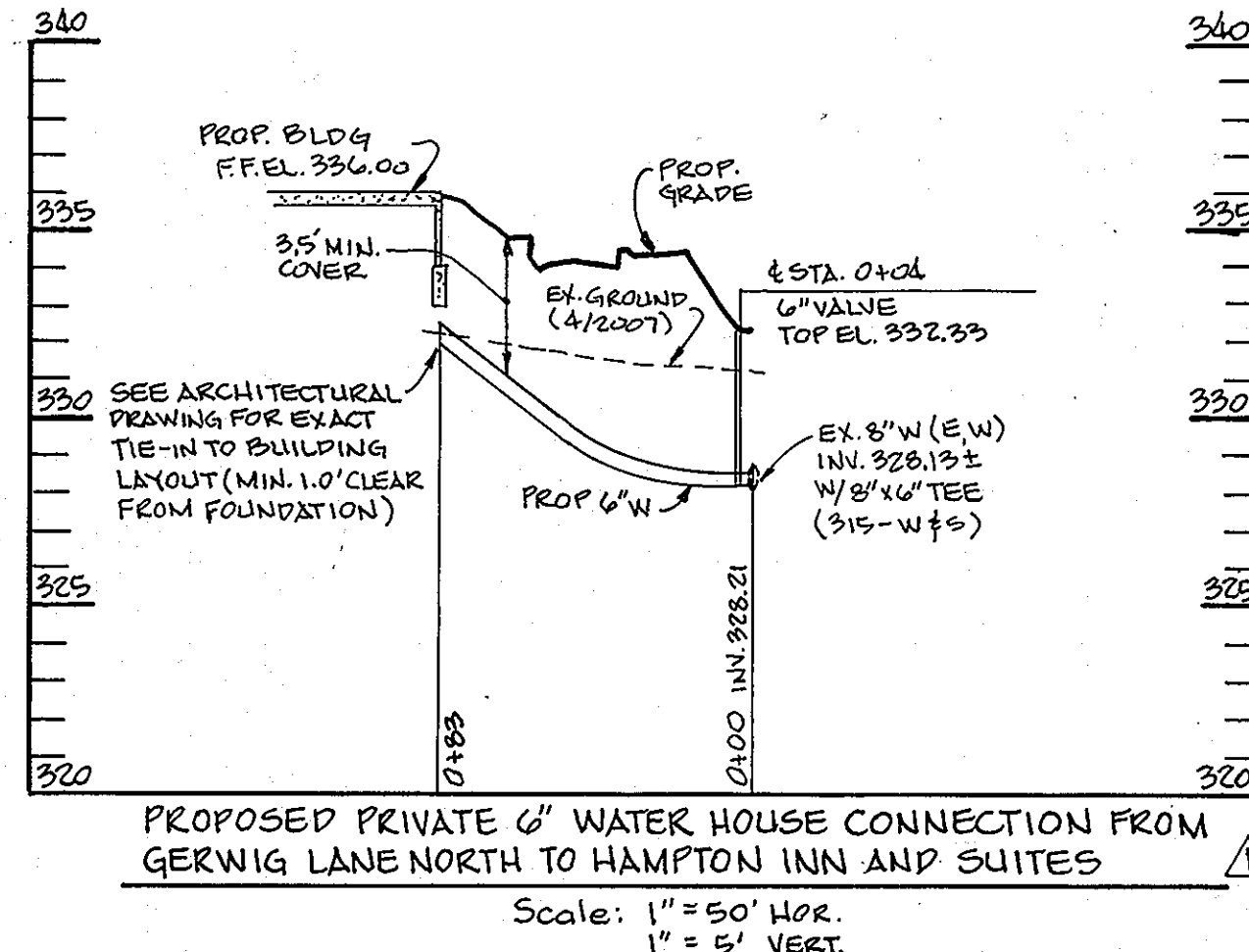
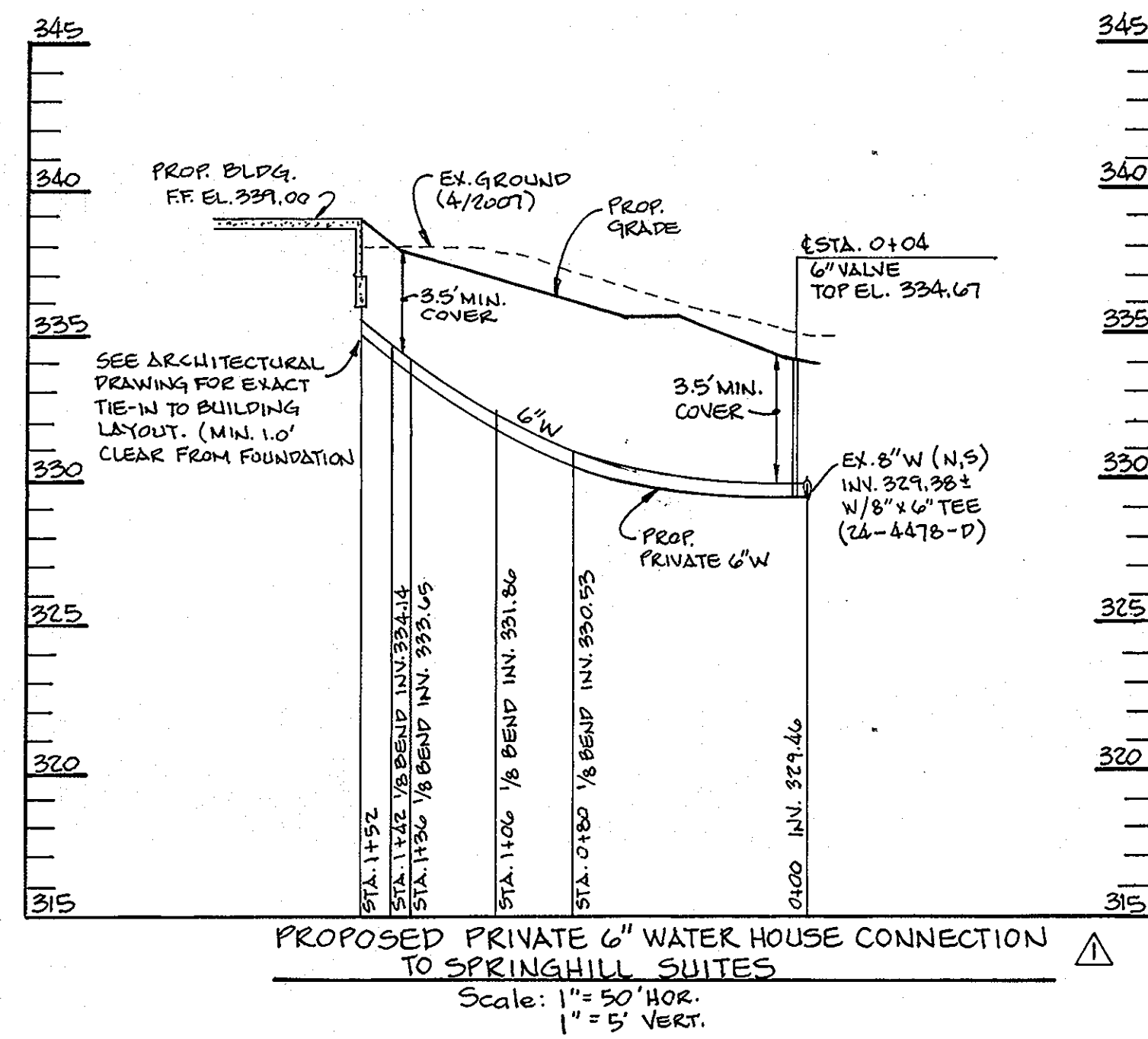


LITTLE & ASSOCIATES, INC.
ENGINEERS~LAND PLANNERS~SURVEYORS
1055 TAYLOR AVENUE, SUITE 307
TOWSON, MARYLAND 21286
PHONE: (410)296-1636 FAX: (410)296-1639

OWNER:
SNOWDEN ROCK, LLC; OTO ROCK, LLC; COLEMAN ROCK, LLC
TRANSITION ROCK, LLC; PILL ROCK, LLC
C/O OTO DEVELOPMENT
6800 DEERPATH ROAD ELKCRIDGE, MD 21075
410-579-2442
CHEVY CHASE BANK, F.S.B.
7501 WISCONSIN AVENUE, 9TH FLR
BETHESDA, MD 20814
240-497-7032

DEVELOPER:
H&H ROCK
6800 DEERPATH ROAD
SUITE 100
ELKCRIDGE, MD 21075
410-579-2442

SITE UTILITY PLAN & PROFILES
REVISED STORM DRAINS
SDP-07-078
MINSTREL CROSSING II
MINSTREL CROSSING SUBDIVISION
LOTS 24 THROUGH 28
ELECTION DISTRICT 6
PLAT REF. 19555, 17/35, 24/99
SCALE: AS SHOWN
DRG NO.: SDP-12
HOWARD COUNTY, MD
M 42 G 3, 9 P 375, 399
MAY 12, 2008
SHEET 12 OF 32



| BY | No. | REVISION | DATE |
|--------|-----|--|---------|
| L.A.I. | △ | ADDED BUILDINGS C/O, ADDED SHEETS 30-32 | 10/2012 |
| L.A.I. | △ | REMOVED OUTSIDE WM VALVES, USE INTERNAL WATER METERS, ADD PROFILES | 8/20/08 |

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF DEVELOPMENT ENGINEERING DIVISION
[Signature]
 DATE: 8/16/08

CHIEF DIVISION OF LAND DEVELOPMENT
[Signature]
 DATE: 8/18/08

DIRECTOR

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. 16019, EXPIRATION DATE 5/8/2010.

LIC. NO. 16019

LITTLE & ASSOCIATES, INC.
 ENGINEERS~LAND PLANNERS~SURVEYORS
 1055 TAYLOR AVENUE, SUITE 307
 TOWSON, MARYLAND 21286
 PHONE: (410)296-1636 FAX: (410)296-1639

OWNER:
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 TRANSITION ROCK, LLC; PILL ROCK, LLC
 C/O OTO DEVELOPMENT
 961 E. MAIN STREET
 SPARTANBURG, SC 29302
 864-327-4035

DEVELOPER:
 H&H ROCK
 6800 DEERPATH ROAD
 SUITE 100
 ELKRIDGE, MD 21075
 410-579-2442

CHEVY CHASE BANK, F.S.B.
 7501 WISCONSIN AVENUE, 9TH FLR
 BETHESDA, MD 20814
 240-497-7032

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 04/10/08

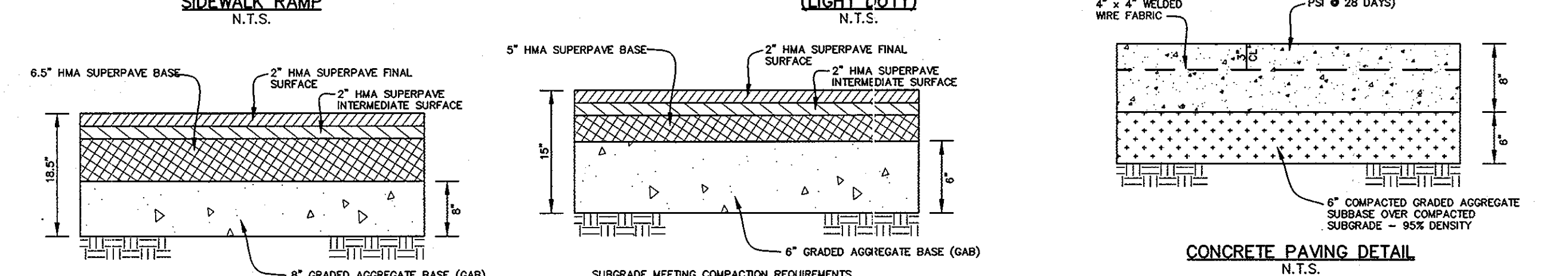
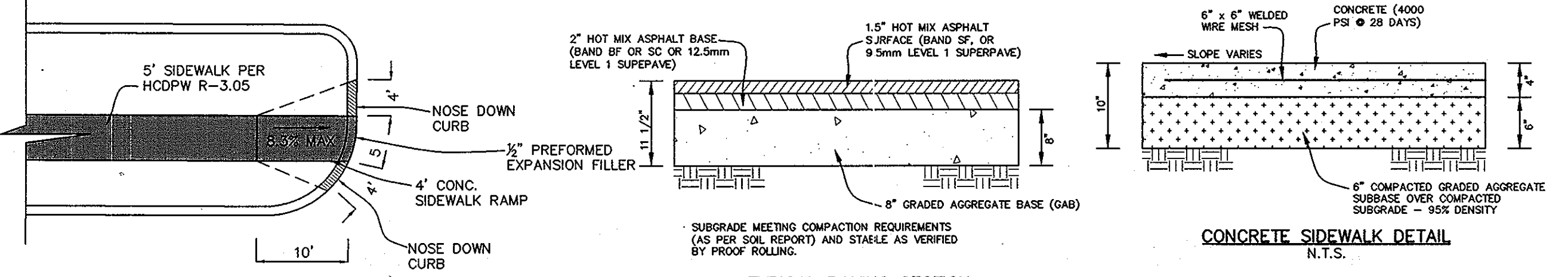
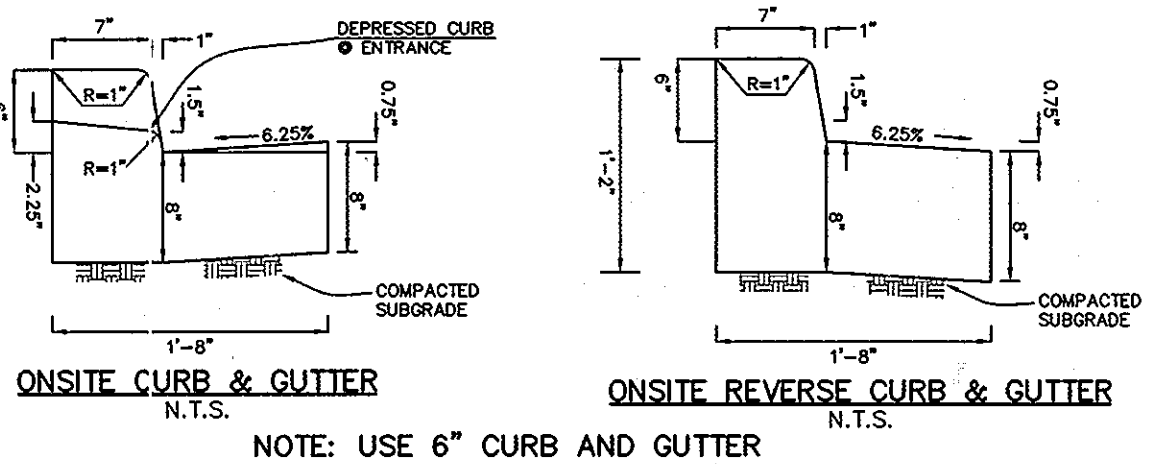
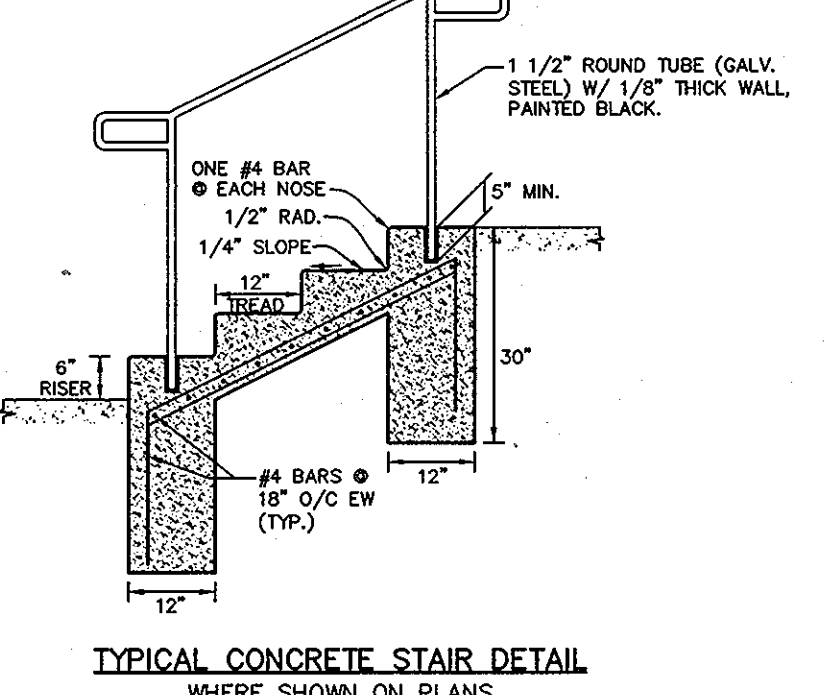
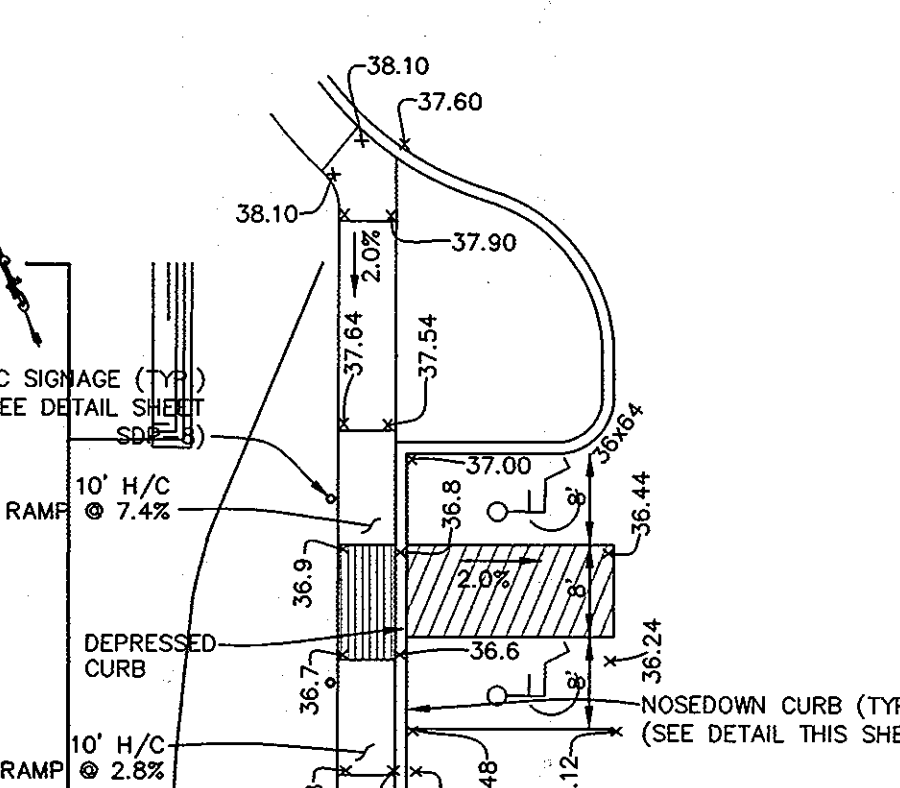
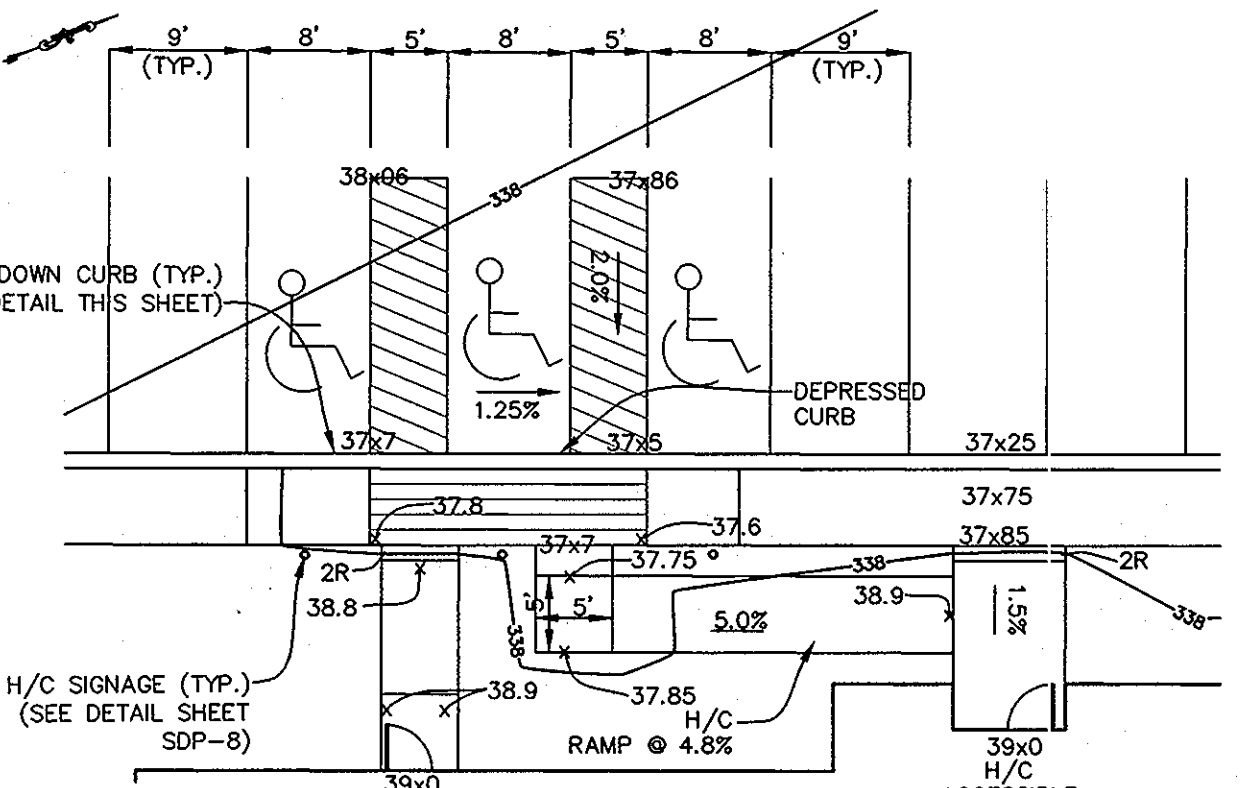
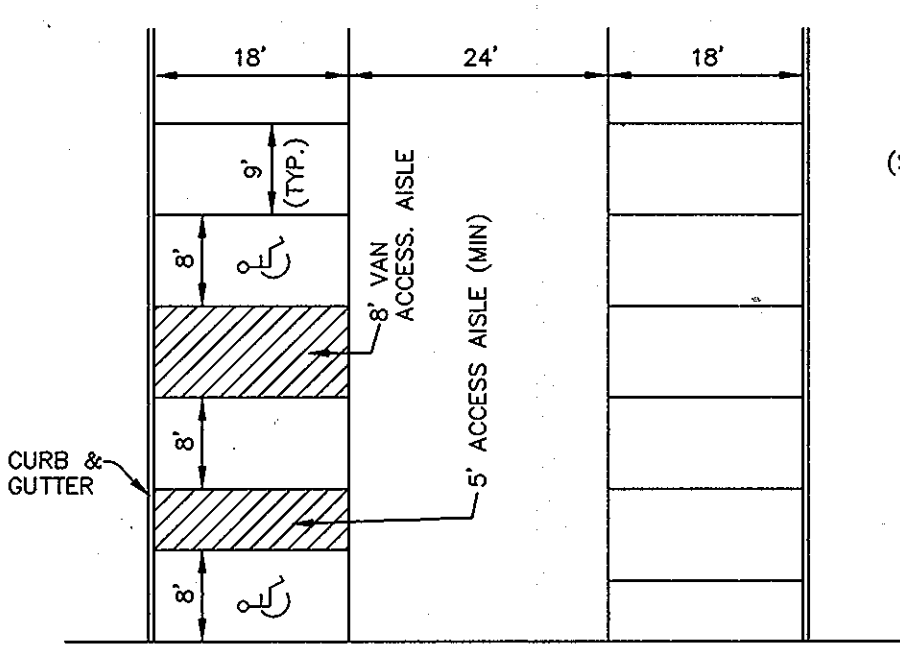
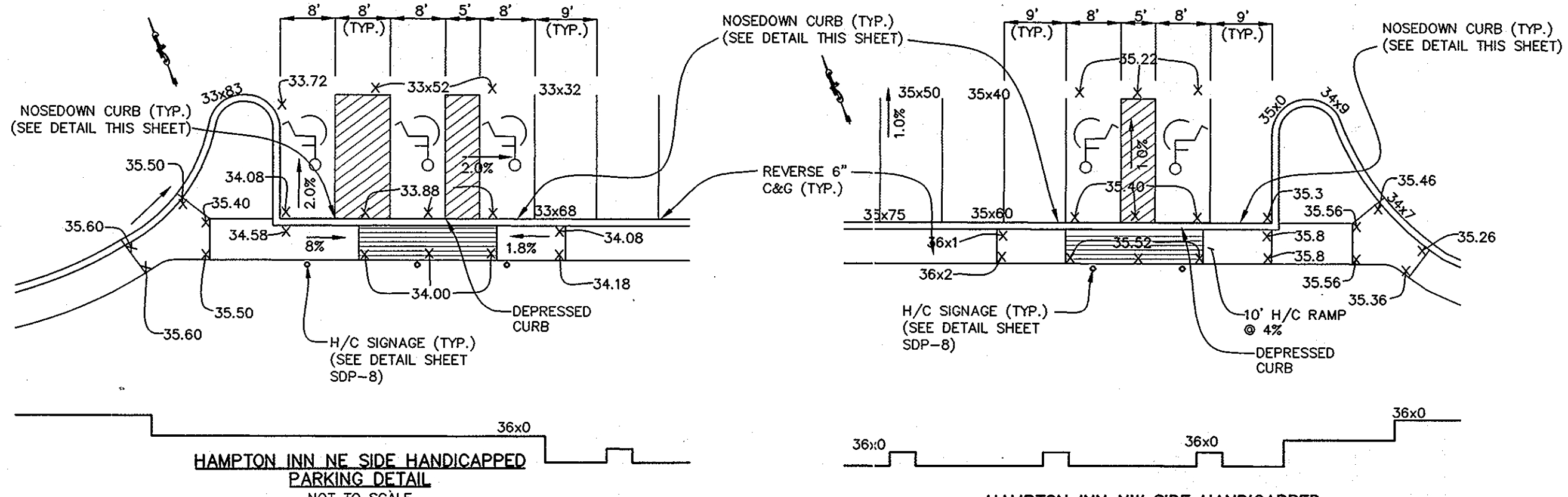
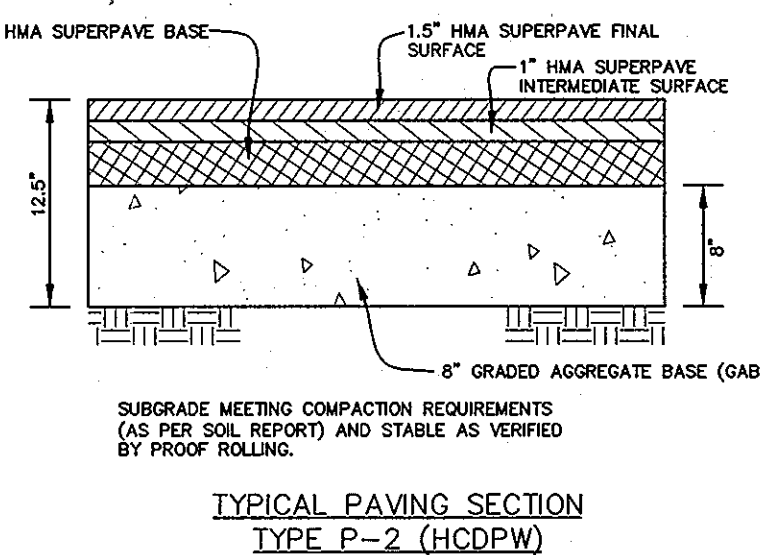
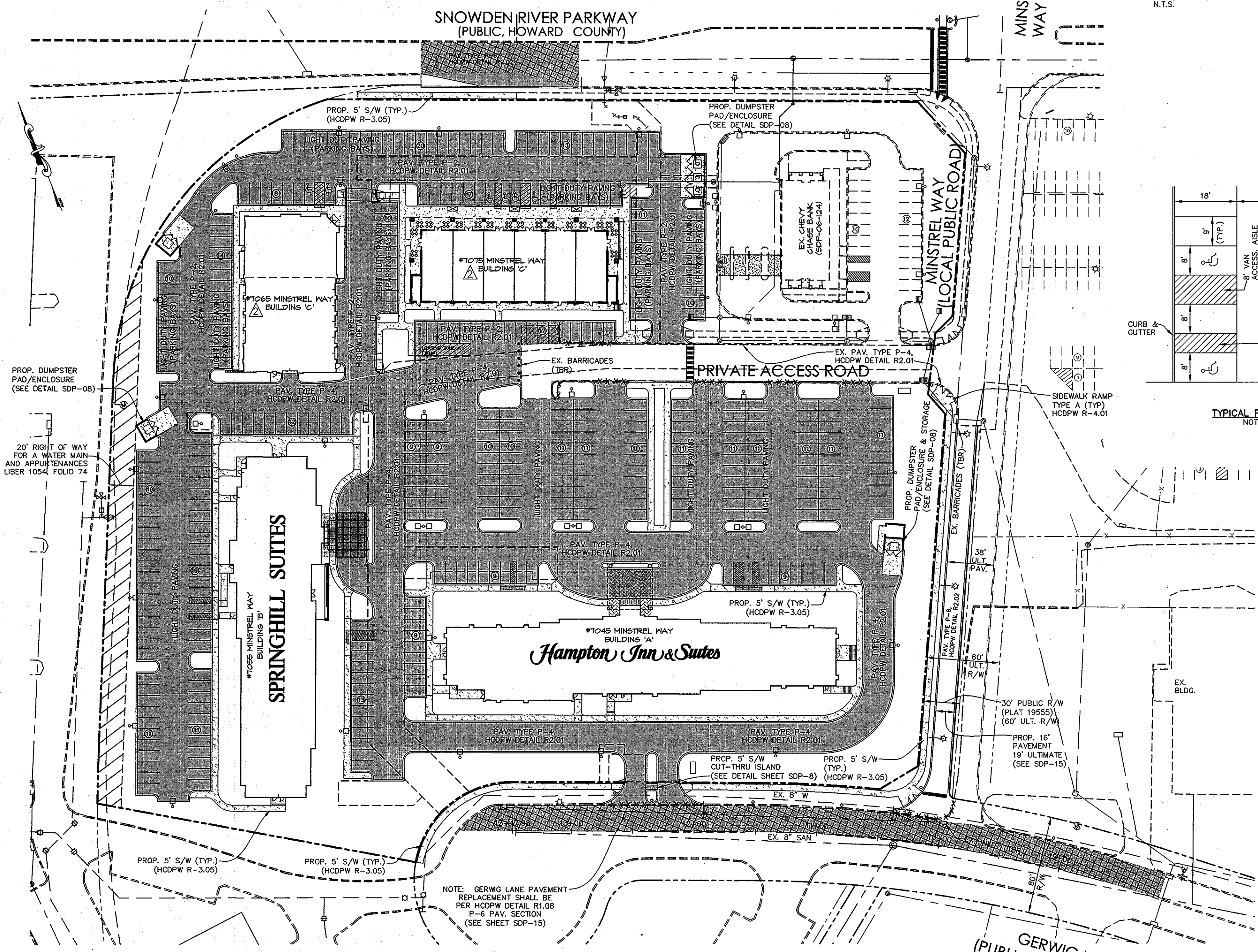
SITE UTILITY PLAN & PROFILES
AND GERWIG LANE STRIPING PLAN
 REVISED SDP-07-078
MINSTREL CROSSING II
 MINSTREL CROSSING SUBDIVISION
 LOTS 24 THROUGH 28

ELECTION DISTRICT 6
 PLAT REF. 19555, 17/35, 24/99
 SCALE: AS SHOWN
 DRG NO.: SDP-13

HOWARD COUNTY, MD
 M 42 G 3, 9 P 375, 399
 MAY 16, 2008
 SHEET 13 OF 32

LEGEND

| | |
|--|------------------------|
| PROPERTY LINE | --- |
| EXISTING GAS | —X—X—X— |
| EX. CURB, TO BE REMOVED | ---X--- |
| PROPOSED FULL DEPTH PAVING | [Hatched Box] |
| PROP. MILLING, OVERLAY AND RESURFACING | [Cross-hatched Box] |
| PROP. SIDEWALK | [Dotted Box] |
| EX. PAVING, TO BE REMOVED | [Diagonal Hatched Box] |
| PROP. CONCRETE PAV. | [Stippled Box] |

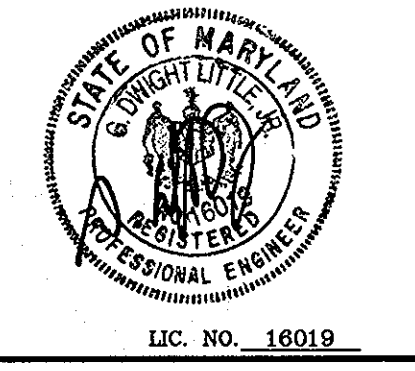


APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE 04/10/2008 AND 05/24/2012

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. 16019, EXPIRATION DATE 5/8/2014.

| LA | NO. | REVISION | DATE |
|-----|-----|-----------------------------|-------|
| LA1 | 1 | ADDED BUILDINGS 'C' AND 'D' | 10/12 |
| | | ADDED SHEETS 30-32 | |

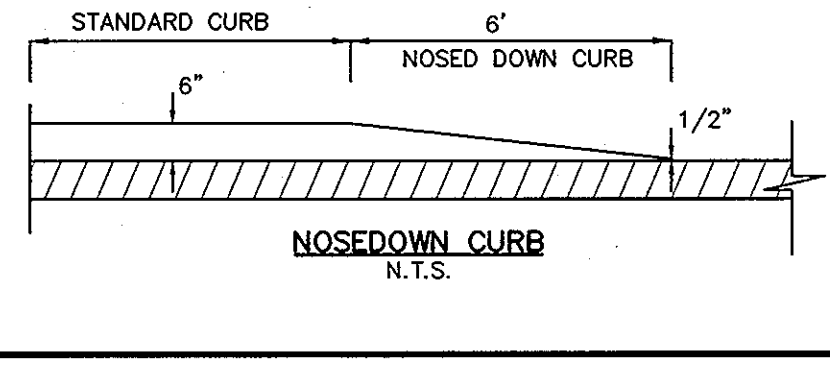
APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
DIRECTOR



LITTLE & ASSOCIATES, INC.
ENGINEERS~LAND PLANNERS~SURVEYORS
1055 TAYLOR AVENUE, SUITE 307
TOWSON, MARYLAND 21286
PHONE: (410)296-1636 FAX: (410)296-1639

OWNER:
SNOWDEN ROCK, LLC; TRANSITION ROCK, LLC; PILL ROCK, LLC
C/O H&H ROCK
6800 DEERPATH ROAD
ELKRIDGE, MD 21075
410-579-2442
CHEVY CHASE BANK, F.S.B.
7501 WISCONSIN AVENUE, 9TH FLR
BETHESDA, MD 20814
240-497-7032

DEVELOPER:
H&H ROCK
6800 DEERPATH ROAD
SUITE 100
ELKRIDGE, MD 21075
410-579-2442

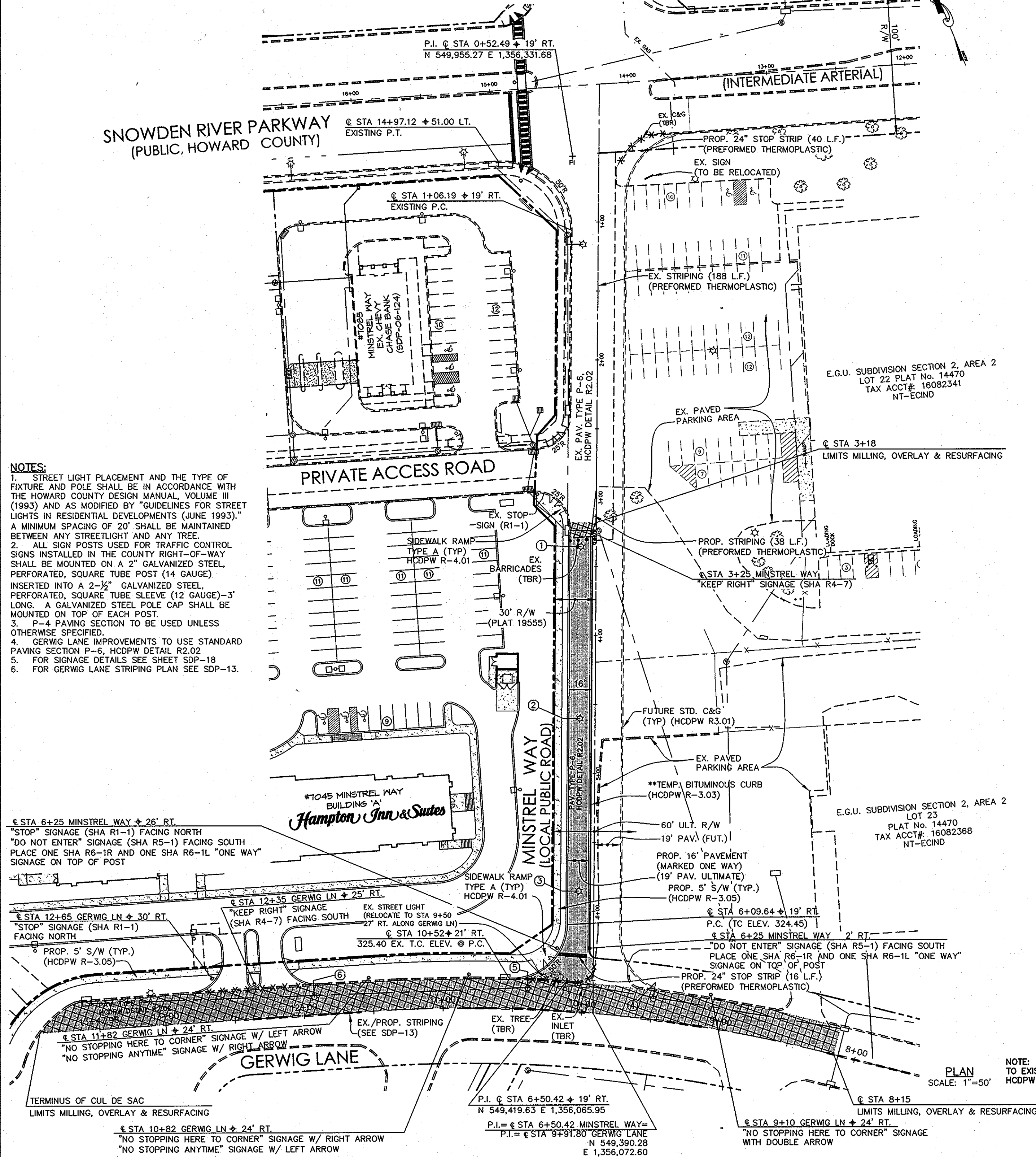


SITE PAVING PLAN
REVISED SDP-07-078
MINSTREL CROSSING II
MINSTREL CROSSING SUBDIVISION
LOTS 24 THROUGH 28
ELECTION DISTRICT 6
PLAT REF. 19555, 17/35, 24/99
SCALE: AS SHOWN
DRG NO.: SDP-14
HOWARD COUNTY, MD
M 42 G 3, 9 P 375, 399
MAY 29, 2008
SHEET 14 OF 32

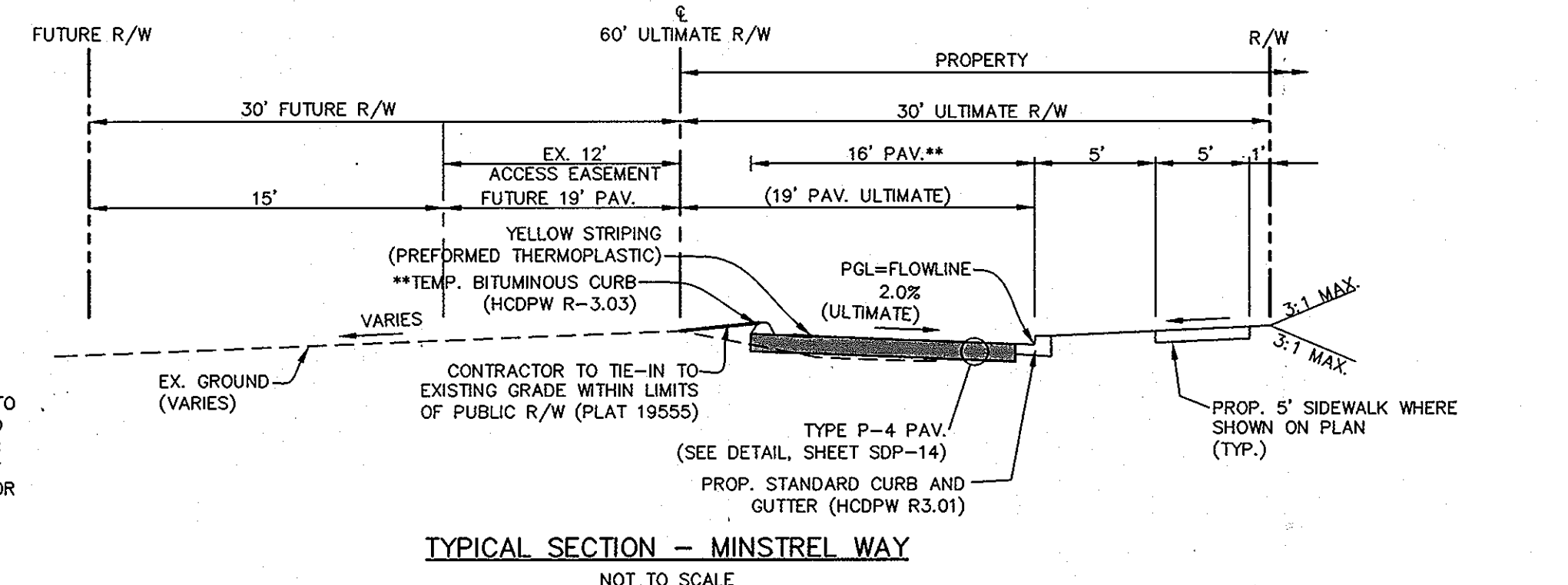
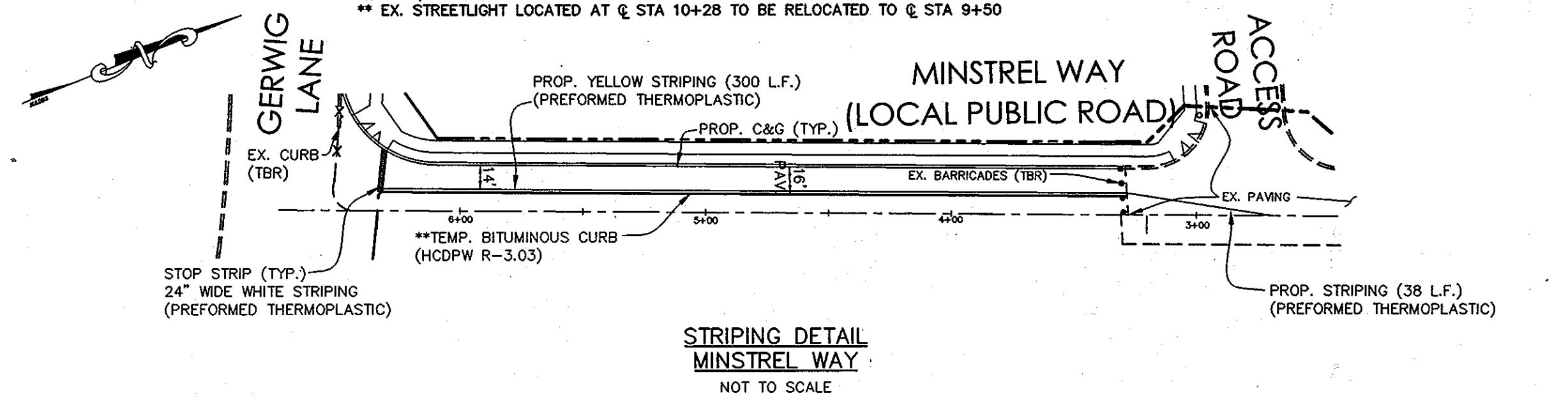
- LEGEND**
- PROPERTY LINE
 - EXISTING GAS
 - EX. CURB, TO BE REMOVED
 - PROPOSED FULL DEPTH PAVING
 - PROP. MILLING, OVERLAY AND RESURFACING
 - PROP. SIDEWALK
 - PROPOSED LIGHTING (PUBLIC) (SEE SCHEDULE, THIS SHEET)
 - PROP. STREETLIGHT TABLE REFERENCE

| STREET LIGHT SCHEDULE (PUBLIC) | | | | | | | | | | | |
|--------------------------------|------------------|-----------|-----------|-----------|----------------|-----------------|-----------------------|----------------|--------------------------------|-------------------|--------|
| Light # | Location | Check One | Check One | Check One | Check One | Check One | Check One | Check One | Installed @ Station / Location | Public / Private? | |
| | | Install | Remove | Relocate | Customer Owned | Customer Leased | Pole Type | Customer Owned | Customer Leased | | |
| 1 | W/S MINSTREL WAY | X | | | | | 250 WATT HPSV PENDANT | | | 3+35 23' RT., LT. | Public |
| 2 | W/S MINSTREL WAY | X | | | | | 250 WATT HPSV PENDANT | | | 4+60 23' RT., LT. | Public |
| 3 | W/S MINSTREL WAY | X | | | | | 250 WATT HPSV PENDANT | | | 5+85 23' RT., LT. | Public |
| 4 | N/S GERWIG LANE | X | | X** | | | 250 WATT HPSV PENDANT | | | 9+50 27' RT. | Public |
| 5 | N/S GERWIG LANE | X | | | | | 250 WATT HPSV PENDANT | | | 10+40 27' RT. | Public |
| 6 | N/S GERWIG LANE | X | | | | | 250 WATT HPSV PENDANT | | | 11+92 25' RT. | Public |

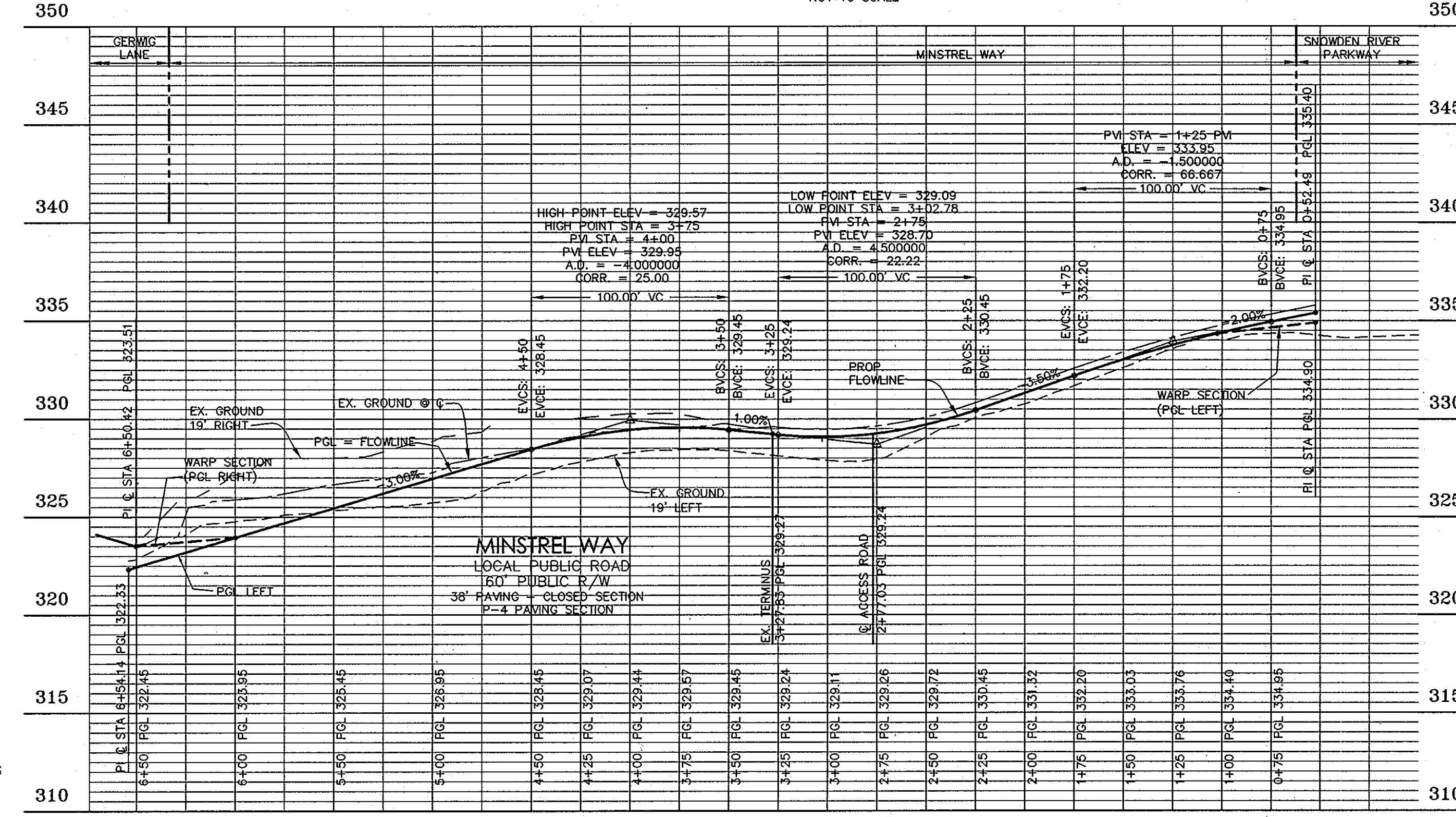
NOTE: ALL PUBLIC LIGHTING TO BE 250 WATT HPS VAPOR PENDANT FIXTURE (SAG) MOUNTED AT 30' ON A BRONZE FIBERGLASS POLE USING A 12' ARM, 4' SETBACK FROM FACE OF CURB
 ** EX. STREETLIGHT LOCATED AT @ STA 10+28 TO BE RELOCATED TO @ STA 9+50



- NOTES:**
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1993)." A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREETLIGHT AND ANY TREE.
 - ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE)-3' LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
 - P-4 PAVING SECTION TO BE USED UNLESS OTHERWISE SPECIFIED.
 - GERWIG LANE IMPROVEMENTS TO USE STANDARD PAVING SECTION F-6, HCDPW DETAIL R2.02.
 - FOR SIGNAGE DETAILS SEE SHEET SDP-18.
 - FOR GERWIG LANE STRIPING PLAN SEE SDP-13.



**NOTE: IN AGREEMENT WITH HO. CO. TRAFFIC ENGINEERING DIVISION, CONTRACTOR IS TO PAVE 16' STANDARD PAVING SECTION FROM ACCESS ROAD TO GERWIG LANE. PROPOSED STRIPING WILL CREATE A ONE-WAY LANE TO GERWIG LANE (AS REQUESTED BY TRAFFIC ENGINEERING IN COMMENTS DATED JUNE 6, 2007). THIS LANE IS TO PROVIDE ONE-WAY ACCESS TO GERWIG LANE UNTIL THAT TIME AT WHICH THE ULTIMATE RIGHT-OF-WAY FOR MINSTREL WAY IS DEDICATED TO HOWARD COUNTY BY ADJOINING PROPERTIES. AT SUCH TIME, THE FULL PAVING SECTION OF 19' WILL BE PROVIDED. A FEE-IN-LIEU FOR THE ADDITIONAL FUTURE 3' OF PAVING IS TO BE PAID BY THE DEVELOPER.

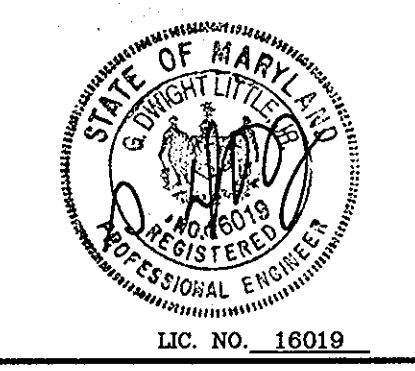


| BY | NO. | REVISION | DATE |
|-----|-----|---------------------------------|---------|
| LAI | 1 | ADDED BUILDINGS CIP | 10/2012 |
| | 2 | ADDED MINSTREL WAY IMPROVEMENTS | |

APPROVED: DEPARTMENT OF PLANNING AND ZONING

DATE: 8/6/08

DATE: 8/18/08



LITTLE & ASSOCIATES, INC.
 ENGINEERS--LAND PLANNERS--SURVEYORS
 1055 TAYLOR AVENUE, SUITE 307
 TOWSON, MARYLAND 21286
 PHONE: (410)296-1636 FAX: (410)296-1639

OWNER:
 SNOWDEN ROCK, LLC; OTO ROCK, LLC; COLEMAN ROCK, LLC
 TRANSITION ROCK, LLC; PILL ROCK, LLC
 C/O OTO DEVELOPMENT
 6800 DEERPATH ROAD ELK RIDGE, MD 21075
 410-579-2442

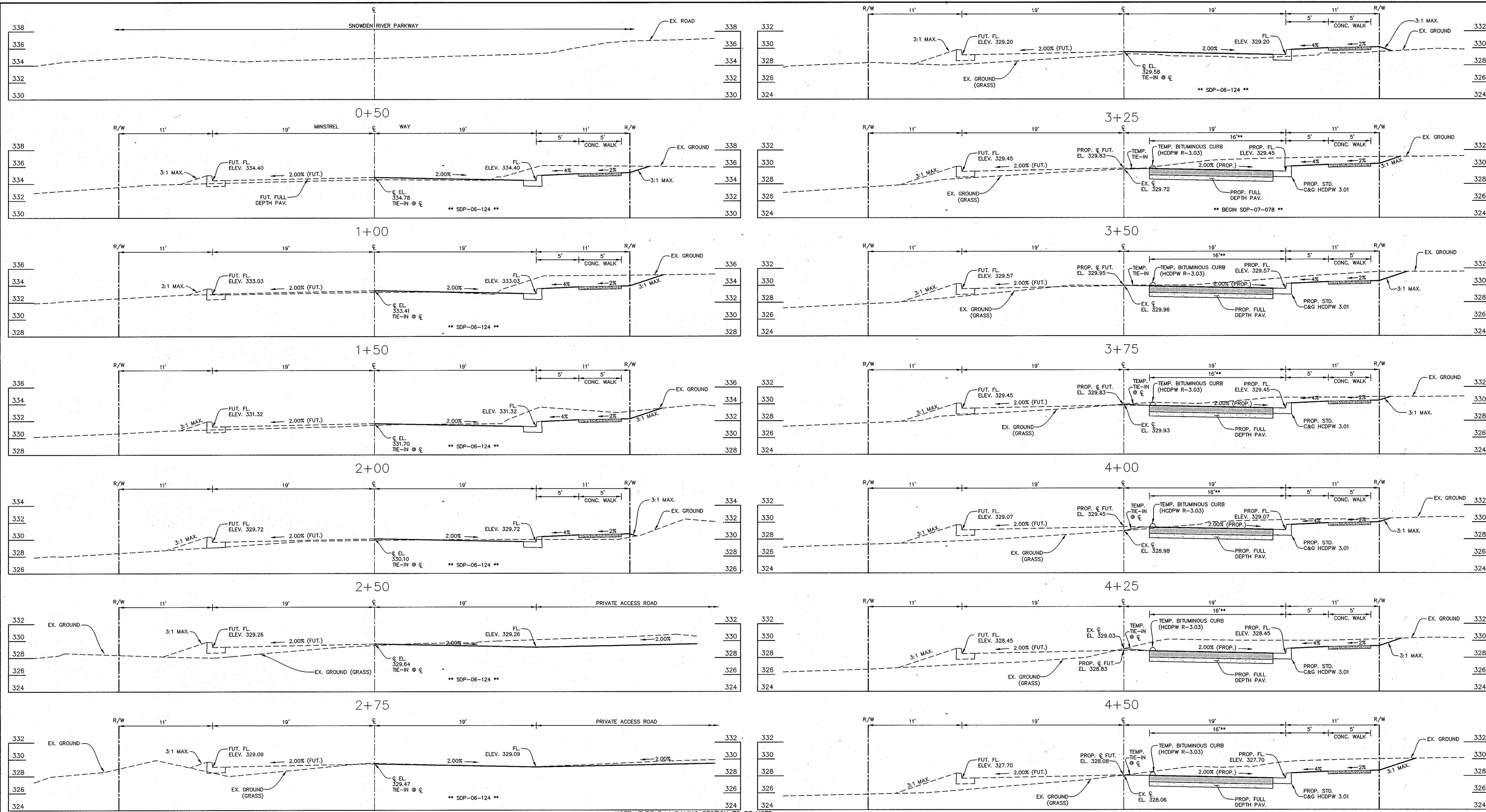
DEVELOPER:
 H&H ROCK
 6800 DEERPATH ROAD SUITE 100 ELK RIDGE, MD 21075
 410-579-2442

APPROVED PLANNING BOARD OF HOWARD COUNTY
 DATE: 04/10/08

ROADS MINSTREL WAY & SIGNAGE PLAN
 REVISED SDP-07-078
MINSTREL CROSSING II
 MINSTREL CROSSING SUBDIVISION
 LOTS 24 THROUGH 28

ELECTION DISTRICT 6
 PLAT REF. 19555, 17/35, 24/99
 SCALE: AS SHOWN
 DRG NO.: SDP-15

HOWARD COUNTY, MD
 M 42 G 3, 9 P 375, 399
 MAY 12, 2008
 SHEET 15 OF 32



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. 16019, EXPIRATION DATE 5/9/2010.



LITTLE & ASSOCIATES, INC.
ENGINEERS~LAND PLANNERS~SURVEYORS
1055 TAYLOR AVENUE, SUITE 307
TOWSON, MARYLAND 21286
PHONE: (410)296-1636 FAX: (410)296-1639

NOTE: TYPE P-4 PAVING SECTION TO BE USED
**NOTE: IN AGREEMENT WITH HO. CO. TRAFFIC ENGINEERING DIVISION, CONTRACTOR IS TO PAVE 16' STANDARD PAVING SECTION FROM ACCESS ROAD TO GERWIG LANE. THIS LANE IS TO PROVIDE ONE-WAY ACCESS TO GERWIG LANE UNTIL THAT TIME AT WHICH THE ULTIMATE RIGHT-OF-WAY FOR MINSTREL WAY IS DEDICATED TO HOWARD COUNTY BY ADJOINING PROPERTIES. AT SUCH TIME, THE FULL PAVING SECTION OF 19' WILL BE PROVIDED. A FEE-IN-LIEU FOR THE ADDITIONAL FUTURE 3' OF PAVING IS TO BE PAID BY THE DEVELOPER. THE CONTRACTOR IS TO TIE INTO THE EX. GRADE BETWEEN THE PROPOSED TEMPORARY BITUMINOUS CURB AND THE PROPERTY LINE (AT THE ϵ OF MINSTREL WAY).

OWNER:
SNOWDEN ROCK, LLC; OTO ROCK, LLC; COLEMAN ROCK, LLC
TRANSITION ROCK, LLC; PILL ROCK, LLC
C/O OTO DEVELOPMENT
6800 DEERPATH ROAD
ELKBRIDGE, MD 21075
410-579-2442

DEVELOPER:
H&H ROCK
6800 DEERPATH ROAD
SUITE 100
ELKBRIDGE, MD 21075
410-579-2442

CHEVY CHASE BANK, F.S.B.
7501 WISCONSIN AVENUE, 9TH FLR
BETHESDA, MD 20814
240-497-7032

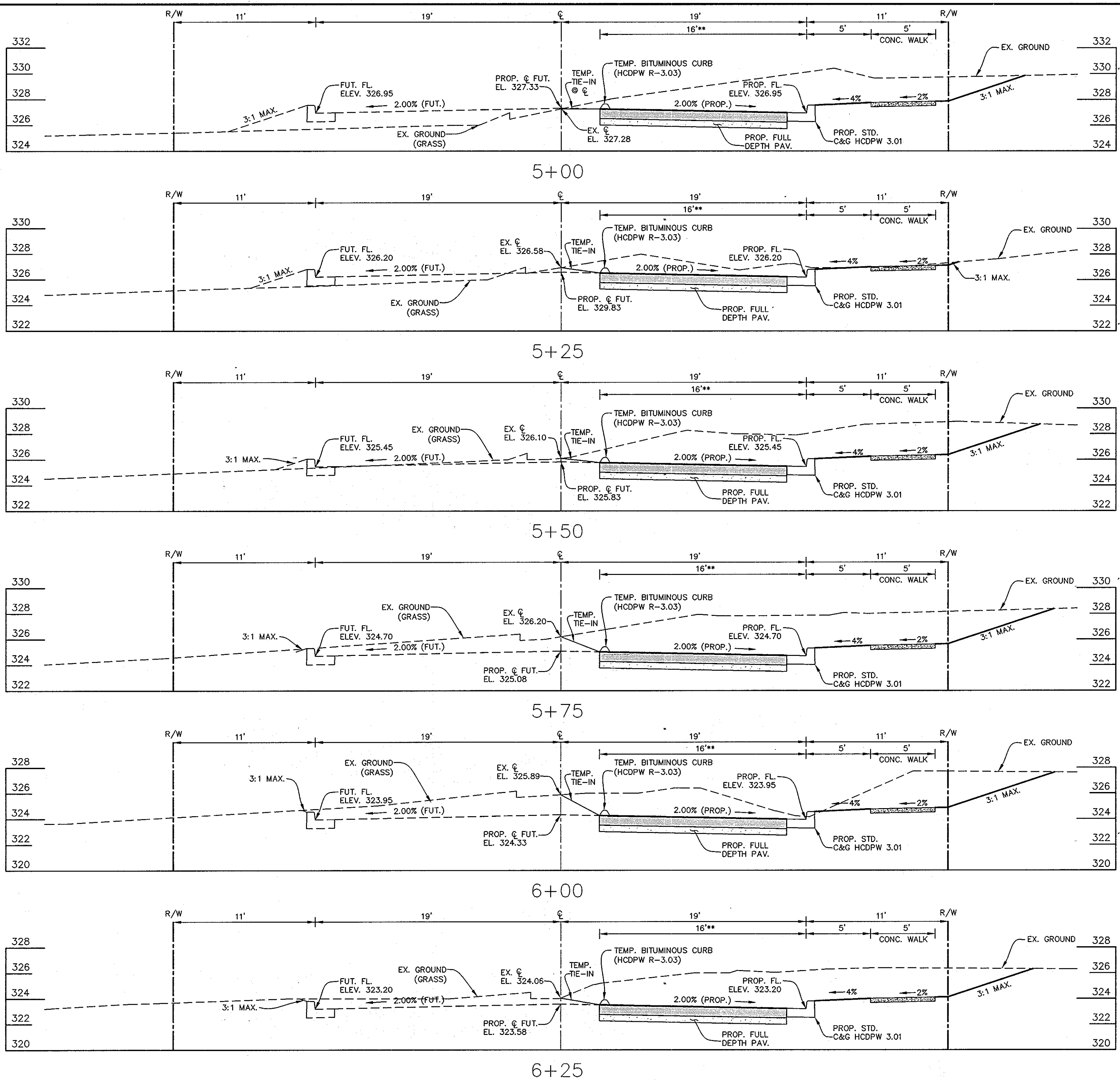
APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 4/10/08
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 5/2/08
DIRECTOR

APPROVED PLANNING BOARD
of HOWARD COUNTY
DATE: 04/10/08

ROAD CROSS-SECTIONS - MINSTREL WAY
REVISED SDP-07-078
MINSTREL CROSSING II
MINSTREL CROSSING SUBDIVISION
LOTS 24 THROUGH 28

ELECTION DISTRICT 6
PLAT REF. 19555, 17/35, 24/99
SCALE: AS SHOWN
DRG NO.: SDP-16

HOWARD COUNTY, MD
M 42 G 3, 9 P 375, 399
MAY 12, 2008
SHEET 16 OF 32



APPROVED
PLANNING BOARD
of HOWARD COUNTY
 DATE 04/10/08

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. 16019, EXPIRATION DATE 5/8/2010.



LITTLE & ASSOCIATES, INC.
 ENGINEERS~LAND PLANNERS~SURVEYORS
 1055 TAYLOR AVENUE, SUITE 307
 TOWSON, MARYLAND 21286
 PHONE: (410)296-1636 FAX: (410)296-1639

NOTE: TYPE P-4 PAVING SECTION TO BE USED
 **NOTE: IN AGREEMENT WITH HO. CO. TRAFFIC ENGINEERING DIVISION, CONTRACTOR IS TO PAVE 16' STANDARD PAVING SECTION FROM ACCESS ROAD TO GERGW LANE. THIS LANE IS TO PROVIDE ONE-WAY ACCESS TO GERGW LANE UNTIL THAT TIME AT WHICH THE ULTIMATE RIGHT-OF-WAY FOR MINSTREL WAY IS DEDICATED TO HOWARD COUNTY BY ADJOINING PROPERTIES. AT SUCH TIME, THE FULL PAVING SECTION OF 19' WILL BE PROVIDED. A FEE-IN-LIEU FOR THE ADDITIONAL FUTURE 3' OF PAVING IS TO BE PAID BY THE DEVELOPER. THE CONTRACTOR IS TO TIE INTO EX. GRADE BETWEEN THE PROPOSED TEMPORARY BITUMINOUS CURB AND THE PROPERTY LINE (AT THE C OF MINSTREL WAY).

| BY | No. | REVISION | DATE |
|-----|-----|---|--------|
| LAI | 1 | ADDED BUILDINGS CTR, ADDED SHEETS 20-22 | 1/2012 |

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE 8/10/08
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE 3/8/08
 DIRECTOR

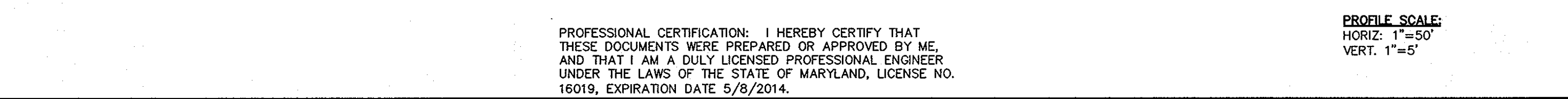
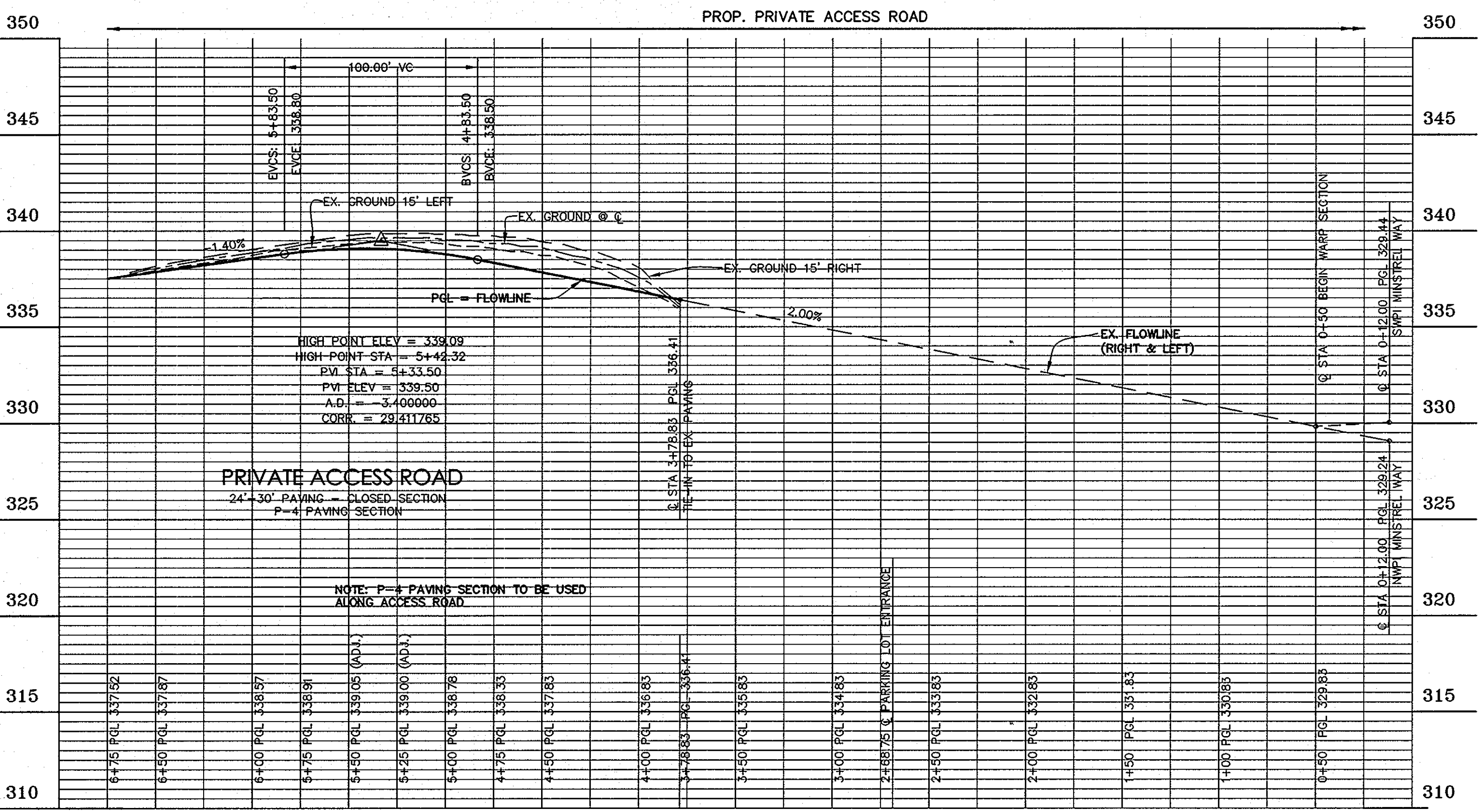
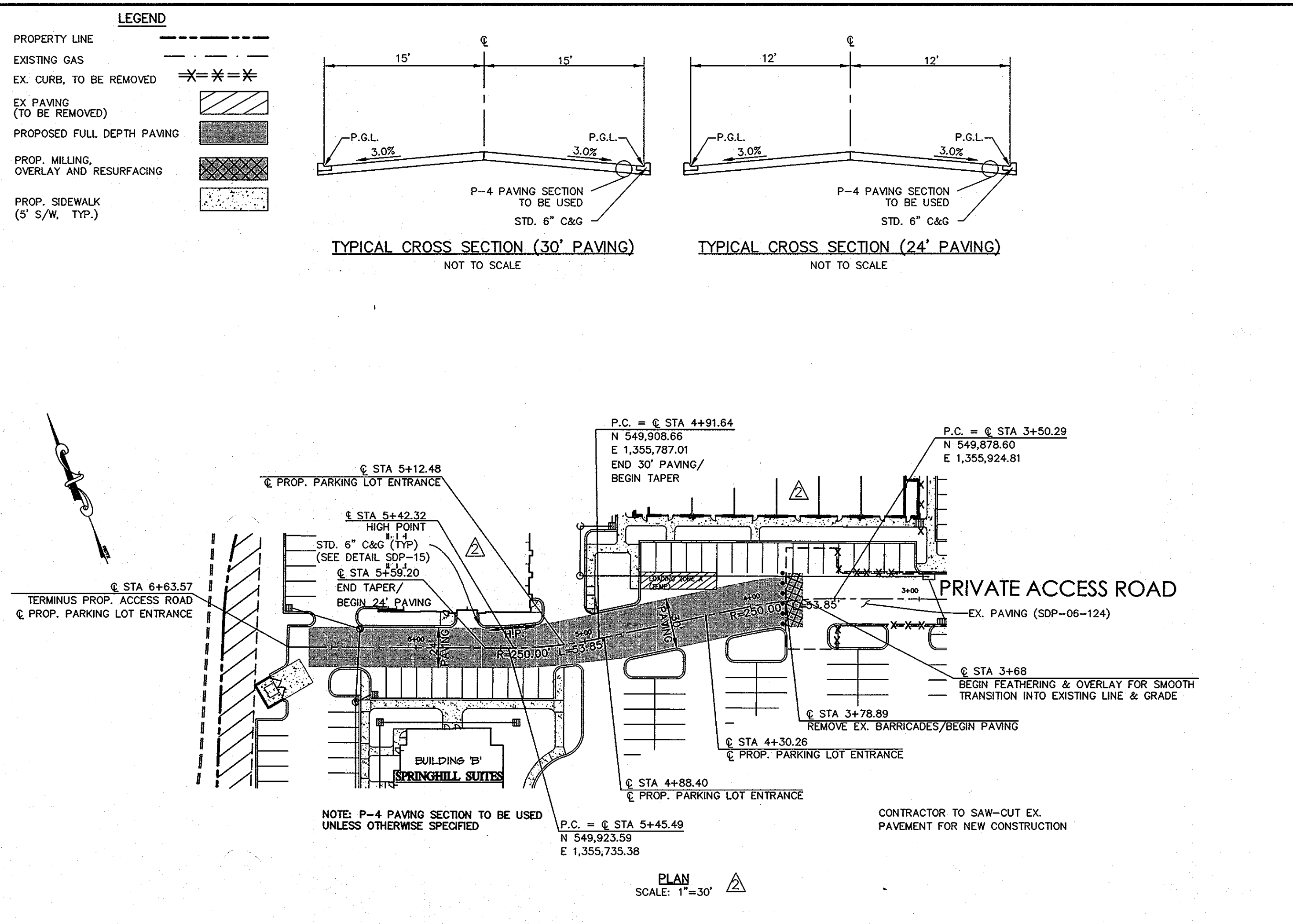
OWNER:
 SNOWDEN ROCK, LLC; OTO ROCK, LLC; COLEMAN ROCK, LLC
 TRANSITION ROCK, LLC; PILL ROCK, LLC
 C/O OTO DEVELOPMENT
 C/O H&H ROCK
 6800 DEERPATH ROAD
 ELKRIDGE, MD 21075
 410-579-2442
 CHEVY CHASE BANK, F.S.B.
 7501 WISCONSIN AVENUE, 9TH FLR
 BETHESDA, MD 20814
 240-497-7032

DEVELOPER:
 H&H ROCK
 6800 DEERPATH ROAD
 SUITE 100
 ELKRIDGE, MD 21075
 410-579-2442

ROAD CROSS-SECTIONS - MINSTREL WAY
 REVISED SDP-07-078
MINSTREL CROSSING II
 MINSTREL CROSSING SUBDIVISION
 LOTS 24 THROUGH 28

ELECTION DISTRICT 6
 PLAT REF. 19555, 17/35, 24/99
 SCALE: AS SHOWN
 DRG NO.: SDP-17

HOWARD COUNTY, MD
 M 42 G 3, 9 P 375, 399
 MAY 12, 2008
 SHEET 17 OF 32



APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 11/20/12

CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 12/11/12

DIRECTOR
DATE: 12/11/12

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. 16018, EXPIRATION DATE 5/8/2014.

LITTLE & ASSOCIATES, INC.
ENGINEERS~LAND PLANNERS~SURVEYORS
1055 TAYLOR AVENUE, SUITE 307
TOWSON, MARYLAND 21286
PHONE: (410)296-1636 FAX: (410)296-1639

OWNER:
SNOWDEN ROCK, LLC; TRANSITION ROCK, LLC; PILL ROCK, LLC
C/O H&H ROCK
6800 DEERPATH ROAD
ELK RIDGE, MD 21075
410-579-2442

DEVELOPER:
OTO ROCK, LLC; COLEMAN ROCK, LLC
C/O OTO DÉVELOPMENT
961 E. MAIN STREET
SPARTANBURG, SC 29302
864-327-4035

CHEVY CHASE BANK, F.S.B.
7501 WISCONSIN AVENUE, 9TH FLR
BETHESDA, MD 20814
240-497-7032

R7-1(1)

NOTE: SEE RB-3(1) FOR RURAL 'NO PARKING' SIGN

| SIGN SIZE | DIMENSIONS (INCHES) | | | | | | | | | |
|-----------|---------------------|----|-----|-----|-----|-------|-------|---|-------|---|
| | A | B | C | D | E | F | G | H | J | K |
| STD | 12 | 18 | 3/8 | 3/8 | 6MM | 4-1/8 | 3-7/8 | 1 | 1-1/2 | |

| SIGN SIZE | DIMENSIONS (INCHES) | | | |
|-----------|---------------------|-------|-----|---|
| | K | L | M | N |
| STD | 3 | 6 1/8 | 5/8 | 6 |

REFERENCES
MUTCD SECTION - NONE
MUTCD SUPPLEMENT - 2B-3, 2B-32, 2B-33

COLORS
CIRCLE, ARROW, BORDER - RED
LETTER 'P' - BLACK
BACKGROUND - WHITE
SPECIAL SHEETING

APPROVED: DIRECTOR - TRAFFIC & SAFETY DATE: 11/20/12
REVISIONS: FEDERAL HIGHWAY ADMINISTRATION
DATE: APPROVAL: 12/11/12

MARYLAND DEPARTMENT OF TRANSPORTATION
State Highway Administration
OFFICE OF TRAFFIC & SAFETY

NO PARKING (SYMBOL)

Section: SDP-07-078 Standard No. R7-1(1)
Drawn By: Date:

R4-7

| SIGN SIZE | DIMENSIONS (INCHES) | | | | | | | | | | | | | | | |
|-----------|---------------------|-----|-----|-------|--------|----------|-------|-------|-------|-------|-------|-------|--------|---|--|--|
| | A | B | C | D | E | F | G | H | J | K | L | M | N | P | | |
| MIN | 24 | 1/2 | 1/2 | 4-1/8 | 5-1/2 | 1-3/8 | 1-7/8 | 2-1/4 | 1-1/2 | 3 | 7-1/2 | 6-3/4 | 1-1/2 | | | |
| STD | 24 | 3/4 | 1/2 | 6-1/4 | 7-3/8 | 1-7/8 | 2-1/2 | 3 | 1-1/2 | 4 | 10 | 9 | 2 | | | |
| EXPWY | 36 | 48 | 3/4 | 3/4 | 9-3/8 | 11-1/8 | 2-1/4 | 3-3/4 | 4-1/2 | 2-1/4 | 6 | 15 | 13-1/2 | 3 | | |
| FWY | 48 | 60 | 1 | 1 | 12-1/2 | 14-13/16 | 3-3/4 | 5 | 6 | 3 | 8 | 20 | 18 | 4 | | |

| SIGN SIZE | DIMENSIONS (INCHES) | | | | | | | | |
|-----------|---------------------|----|-------|--------|-------|-------|-------|---------|-------|
| | O | R | S | T | U | V | W | X | Z |
| MIN | 22-1/2 | 8 | 3-3/8 | 8-3/8 | 3-1/2 | 9/8 | 7/8 | 6-1/8 | 1-1/8 |
| STD | 30 | 8 | 4-1/2 | 12-1/2 | 4-5/8 | 13/8 | 5/8 | 8-1/8 | 1-3/8 |
| EXPWY | 45 | 12 | 6-3/4 | 18-3/4 | 6-7/8 | 1-3/8 | 15/8 | 12-3/16 | 2 |
| FWY | 60 | 16 | 9 | 25 | 9-3/8 | 1-5/8 | 1-1/4 | 16-1/4 | 2-1/8 |

REFERENCES
MUTCD SECTION - 2B-25
MUTCD SUPPLEMENT - 2B-25

COLORS
LEGEND - BLACK
BACKGROUND - WHITE

APPROVED: DIRECTOR - TRAFFIC & SAFETY DATE: 11/20/12
REVISIONS: FEDERAL HIGHWAY ADMINISTRATION
DATE: APPROVAL: 12/11/12

MARYLAND DEPARTMENT OF TRANSPORTATION
State Highway Administration
OFFICE OF TRAFFIC & SAFETY

KEEP RIGHT (SYMBOL)

Section: SDP-07-078 Standard No. R4-7
Drawn By: Date:

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

NOTES:
SHOULDER WORK SIGNS SHALL BE LOCATED ON THE SIDE OF THE ROADWAY WHERE THE SHOULDER IS AFFECTED. IN CASE OF SHOULDER WORK SIGNS ON THE OPPOSITE SIDE OF DIVIDED HIGHWAYS IS OPTIONAL.
SHOULDER CLOSED SIGNS ARE REQUIRED IN PLACE OF SHOULDER WORK SIGNS WHEN THE SHOULDER IS CLOSED BY A PHYSICAL BARRIER REFER TO STANDARD NO. 104.06-14.
WHEN WORK INVOLVES A PAVEMENT EDGE DROP-OFF, REFER TO STANDARD NO. 104.06-15.

KEY:
CHANNELIZING DEVICES
SIGN SUPPORT
DIRECTION OF TRAFFIC
WORK SITE

IMPORTANT:
THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 - MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 - MD 104.01-02.

APPROVED: DIRECTOR - TRAFFIC & SAFETY DATE: 11/20/12
REVISIONS: FEDERAL HIGHWAY ADMINISTRATION
DATE: APPROVAL: 12/11/12

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
SHOULDER WORK DIVIDED UNCON. GREATER THAN 40 MPH
STANDARD NO. MD 104.04-01

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

KEY:
CHANNELIZING DEVICES
SIGN SUPPORT
DIRECTION OF TRAFFIC
WORK SITE
ARROW PANEL

IMPORTANT:
THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 - MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 - MD 104.01-02.

APPROVED: DIRECTOR - TRAFFIC & SAFETY DATE: 11/20/12
REVISIONS: FEDERAL HIGHWAY ADMINISTRATION
DATE: APPROVAL: 12/11/12

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
RIGHT LANE CLOSURE/DIVIDED UNCON. GREATER THAN 40 MPH
STANDARD NO. MD 104.04-05

R1-1

| SIGN SIZE | DIMENSIONS (INCHES) | | | | | |
|-----------|---------------------|-----|----|----|---|--------|
| | A | B | C | D | E | F |
| MIN | 24 | 1/2 | 8 | 8 | 4 | 10 |
| STD | 30 | 3/4 | 10 | 10 | 5 | 12-1/2 |
| EXPWY | 36 | 1 | 12 | 12 | 6 | 15 |
| SPECIAL | 48 | 1 | 16 | 16 | 8 | 20 |
| BIKE | 18 | 3/8 | 6 | 6 | 3 | 7-3/4 |

REFERENCES
MUTCD SECTION - 2B-4, 2B-5, 2B-6, 2B-9
MUTCD SUPPLEMENT - 2B-5, 2B-5.1, 2B-6.1, 2B-9

COLORS
LEGEND - WHITE
BACKGROUND - RED

APPROVED: DIRECTOR - TRAFFIC & SAFETY DATE: 11/20/12
REVISIONS: FEDERAL HIGHWAY ADMINISTRATION
DATE: APPROVAL: 12/11/12

MARYLAND DEPARTMENT OF TRANSPORTATION
State Highway Administration
OFFICE OF TRAFFIC & SAFETY

STOP

Section: SDP-07-078 Standard No. R1-1
Drawn By: Date:

MAINTENANCE OF TRAFFIC DETAILS

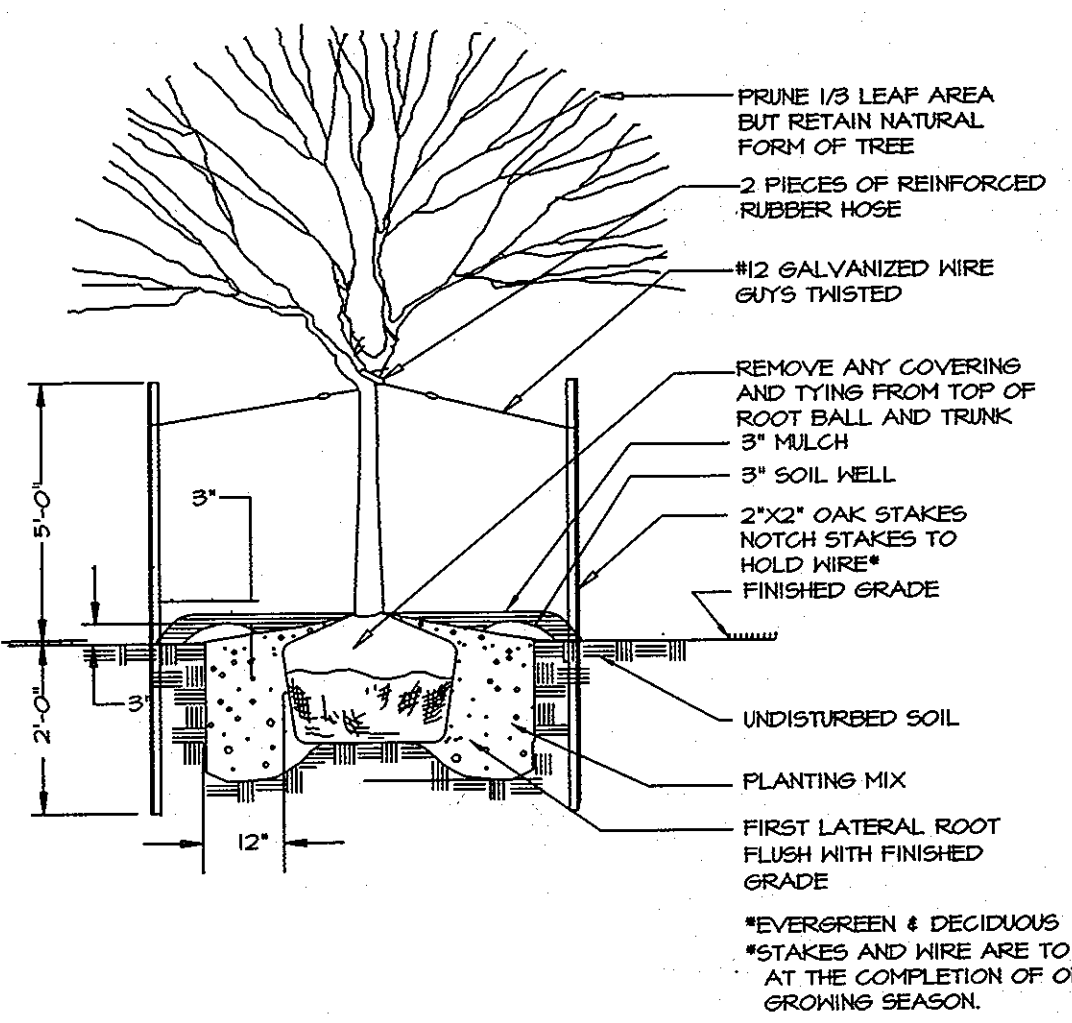
APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: 04/10/2008 AND 05/24/2012

ROADS
PRIVATE ACCESS ROAD
REVISED SDP-07-078
MINSTREL CROSSING II
MINSTREL CROSSING SUBDIVISION
LOTS 24 THROUGH 28

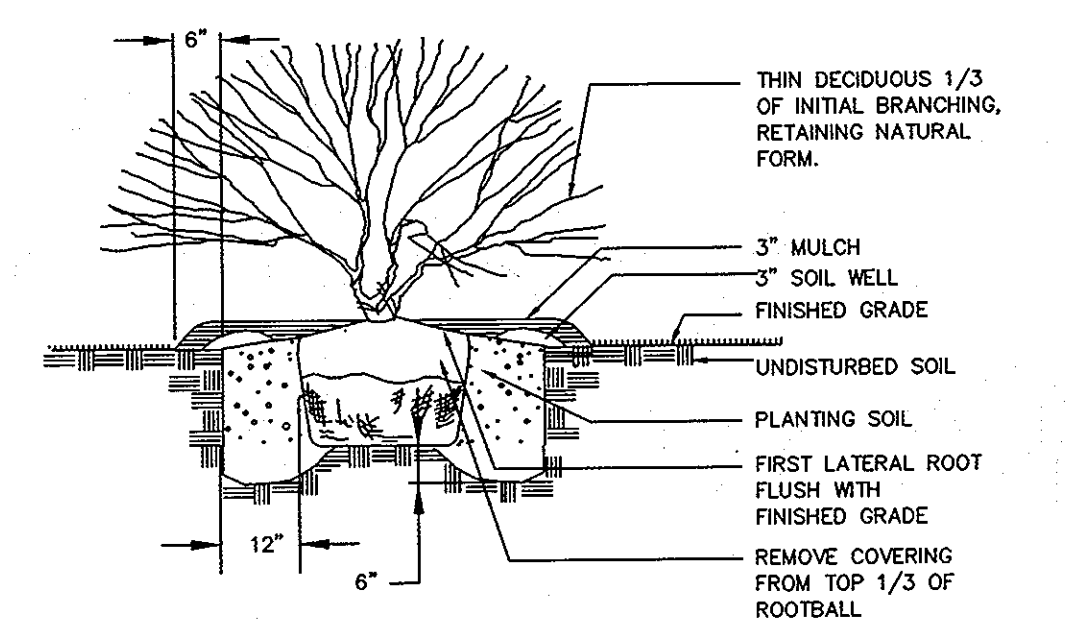
ELECTION DISTRICT 6
PLAT REF. 19555, 17/35, 24/99
SCALE: AS SHOWN
DRG NO.: SDP-18

HOWARD COUNTY, MD
M 42 G 3, 9 P 375, 399
MAY 12, 2008
SHEET 18 OF 32

ADDED BUILDINGS 'C' AND 'D'
ADDED SHEETS 30-32
DATE: 10/12



PLANTING DETAIL FOR TREES* - 1 - 4" CALIPER
NOT TO SCALE



PLANTING DETAIL FOR EVERGREEN AND DECIDUOUS SHRUBS
NOT TO SCALE

- NOTES:**
- THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERRMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
 - AN AUTOMATIC IRRIGATION SYSTEM IS TO BE BUILT AS DIRECTED BY THE OWNER.
 - LANDSCAPE SURETY IN THE AMOUNT OF \$48,390.00 HAS BEEN POSTED AS A PART OF THE DEVELOPER'S AGREEMENT.

- PLANTING NOTES:**
- THIS PLAN IS FOR PLANTING PURPOSES ONLY.
 - THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
 - ALL PLANT MATERIAL SHALL BE NURSERY GROWN AND SHALL CONFORM TO AMERICAN ASSOCIATION OF NURSERYMEN LATEST STANDARDS. PLANT INSTALLATION MUST CONFORM TO THE MINIMUM STANDARDS CITED IN THE LATEST EDITION OF THE "LANDSCAPE SPECIFICATION GUIDELINES" BY THE LANDSCAPE CONTRACTORS ASSOCIATION.
 - CONTRACTOR IS TO NOTIFY "MISS UTILITY" A MINIMUM OF 72 HOURS PRIOR TO DIGGING. TELEPHONE: 1-800-257-7777.
 - THE LANDSCAPE ARCHITECT IS TO BE NOTIFIED 48 HOURS BEFORE PLANTING BEGINS. THE LOCATION OF ALL PLANT MATERIAL IS TO BE APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT.
 - NO TREE OR SHRUB PLANTING PITS ARE TO BE LEFT OPEN OR UNATTENDED.
 - SHRUBS ARE TO BE GROUPED INTO MULCHED BEDS. BEDS ARE TO BE EDGED AND THE GRASS KILLED OR REMOVED PRIOR TO MULCHING.

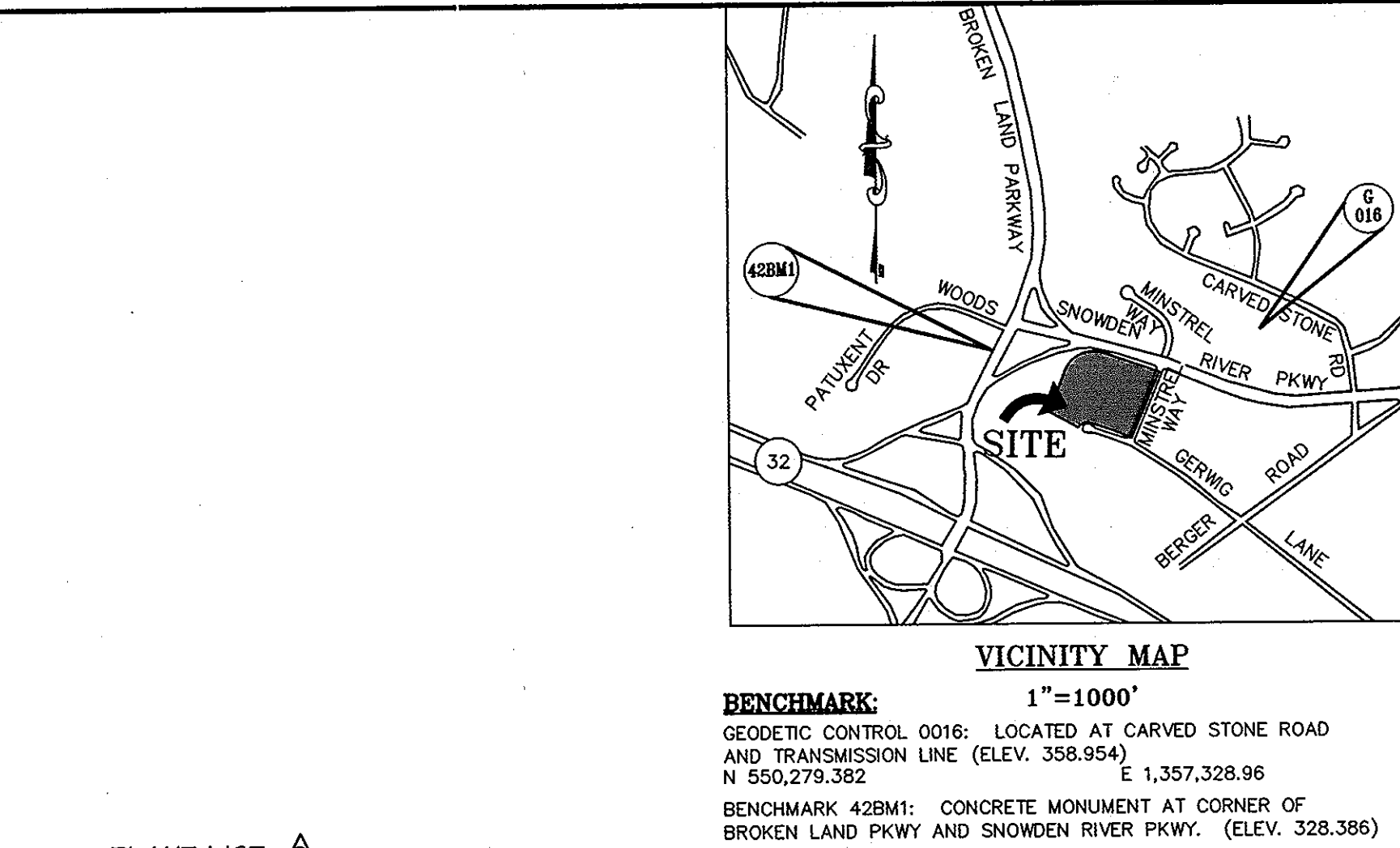
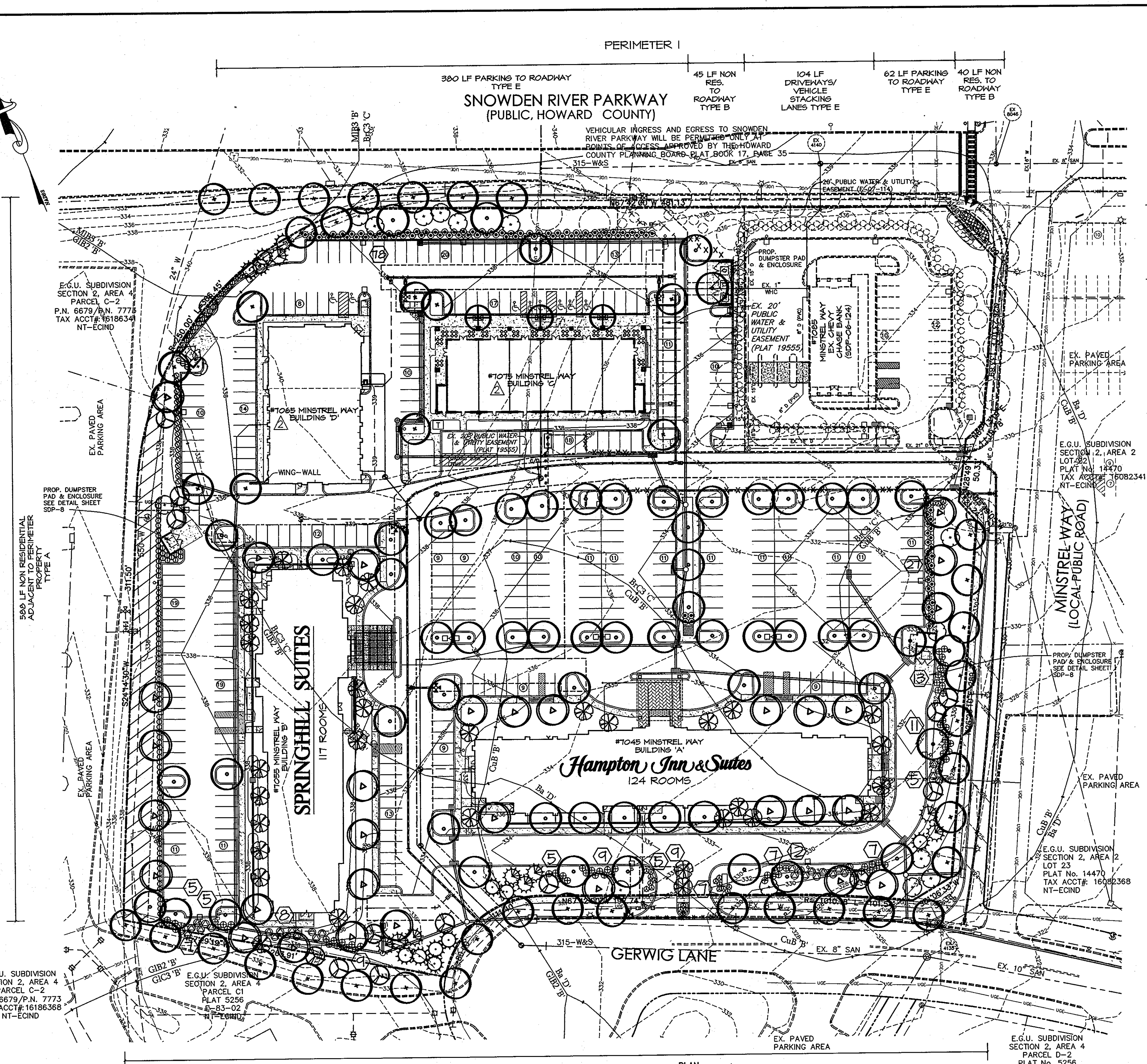
DEVELOPER'S / BUILDER'S CERTIFICATE
I/we certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Howard County Landscape Manual. I/we further certify that upon completion, a Certification of Landscape Installation, accompanied by an executed one year guarantee of plant materials, will be submitted to the Department of Planning and Zoning.

Name: *[Signature]* Date: *12/11/12*

LEGEND

- EXISTING CONTOUR: - - - - - 136
- PROPOSED CONTOUR: ———— 136
- EXISTING FENCE: ————
- PROPERTY LINE: ————
- PROPOSED LIGHTING (PRIVATE): [Symbol]
- PROPOSED LIGHTING (PUBLIC): [Symbol]
- PROPOSED INLET: [Symbol]

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: 04/10/2008 AND 05/24/2008
[Signature]



PLANT LIST

| KEY | QTY | BOTANICAL NAME COMMON NAME | SIZE | COND. | REMARKS |
|-----|-----|---|-----------------|-------|--|
| 62 | | ZELKOVA SIERRATA 'GREEN VASE' 'GREEN VASE' ZELKOVA | 2 1/2 - 3" CAL. | B 4 B | AS SHOWN |
| 67 | | PLATANUS X ACERIFOLIA 'BLOODGOOD' 'BLOODGOOD' LONDON PLANE TREE | 2 1/2 - 3" CAL. | B 4 B | AS SHOWN |
| 31 | | QUERCUS PALUSTRIS PIN OAK | 2 1/2 - 3" CAL. | B 4 B | AS SHOWN |
| 32 | | PRUNUS X 'YOSHINO' 'YOSHINO' CHERRY | 1 1/2 - 2" CAL. | B 4 B | AS SHOWN |
| 14 | | AMALANCHIER CANADENSIS 'WHITE PILLAR' 'WHITE PILLAR' SERVICEBERRY | 1 1/2 - 2" CAL. | B 4 B | MULTISTEM |
| 16 | | CORNUS KOUSA KOUSA DOGWOOD | 1 1/2 - 2" CAL. | B 4 B | AS SHOWN |
| 12 | | PINUS STROBUS WHITE PINE | 6 - 8' HT. | B 4 B | 12' O.C. STAGGERED |
| 4 | | PICEA ABIES NORWAY SPRUCE | 6 - 8' HT. | B 4 B | 12' O.C. STAGGERED |
| 24 | | JUNIPERUS CHINENSIS 'SARGENTII' 'VIRIDIS' 'SARGENTII' GREEN JUNIPER | 18 - 24" SP. | CONT. | 4' O.C. |
| 114 | | ILEX X MESERVEAE 'BLUE PRINCESS' 'BLUE PRINCE' 'BLUE PRINCESS' / 'BLUE PRINCE' HOLLY | 42 - 48" HT. | CONT. | 5' O.C. 1 BLUE PRINCE / 10 BLUE PRINCESS |
| 33 | | VIBURNUM DENTATUM ARROWWOOD VIBURNUM | 30 - 36" HT. | CONT. | 6' O.C. |
| 11 | | BIUNYMS 'KLAUSCHOVICUS' 'SIEBODIANA' 'SIEBOLD' BIUNYMS | 2 1/2 - 3" HT. | CONT. | 5' O.C. |
| 187 | | BIUNYMS 'KLAUSCHOVICUS' 'MANHATTAN' 'MANHATTAN' BIUNYMS | 30 - 36" HT. | CONT. | 4' O.C. |
| 3 | | KOELBETERIA PANICULATA / GOLDENRAIN TREE | 1 1/2 - 2" CAL. | B 4 B | SINGLE TRUNK TO 6'-6" |

SCHEDULE A: PERIMETER LANDSCAPE EDGE

| CATEGORY | PERIMETER 1 | PERIMETER 2 | PERIMETER 3 | PERIMETER 4 | DUMPSTER | | |
|--|-------------|-------------|-------------|-------------|----------|--------|-------|
| LANDSCAPE TYPE | B E | B E | E | A | C | | |
| LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER | 85 LF | 546 LF | 90 LF | 348 LF | 647 LF | 508 LF | 90 LF |
| CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) | NO | NO | NO | NO | NO | NO | NO |
| CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) | NO | NO | NO | NO | NO | NO | NO |
| NUMBER OF PLANTS REQUIRED | | | | | | | |
| SHADE TREES | 2 | 14 | 2 | 4 | 17 | 10 | 2 |
| EVERGREEN TREES | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| SHRUBS | 2 | 157 | 2 | 87 | 174 | 0 | 0 |
| NUMBER OF PLANTS PROVIDED | | | | | | | |
| SHADE TREES | 2 | 5 | 2 | 8 | 15 | 8 | 2 |
| EVERGREEN TREES | 0 | 11 | 3 | 3 | 1 | 0 | 0 |
| OTHER TREES (2:1 SUBSTITUTION) | 0 | 150 | 15 | 10 | 12 | 4 | 0 |
| SHRUBS (10:1 SUBSTITUTION) | 0 | 0 | 0 | 84 | 48 | 0 | 0 |
| DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED | | | | | | | |

COMMENTS:

- P1: 11 EVERGREENS AND 1 OTHER TREE SUBSTITUTED FOR NINE SHADE TREE, ONE OTHER TREE SUBSTITUTED FOR 1 SHRUB
- P2: 2 EVERGREENS SUBSTITUTED FOR 1 SHADE TREES, 1 EVERGREENS SUBSTITUTED FOR 3 SHRUBS
- P3: FOUR EVERGREENS SUBSTITUTED FOR TWO SHADE TREES, 3 EVERGREENS AND 12 OTHER TREES SUBSTITUTED FOR SEVENTY SIX SHRUBS
- P4: FIVE EVERGREENS AND FIVE OTHER TREES SUBSTITUTED FOR FIVE SHADE TREES

HRD GROSS TREE REQUIREMENT: 8.1 ACRES @ 22 SHADE TREES/ ACRE = 178 TREES
TREES PROVIDED: 160 2 1/2 - 3" CAL TREES @ 1:1, 65 OTHER TREES @ 2:1, 21 EVERGREENS @ 2:1 = 202 TREES

PLAN SCALE: 1"=50'

STREET TREE SCHEDULE

| STREET | LENGTH | REQUIREMENT | PROVIDED |
|-----------------------|----------------|-----------------------------|----------|
| SNOWDEN RIVER PARKWAY | 631 LF ROADWAY | @ 1 TREE / 40 LF = 16 TREES | 16 |
| MINSTREL WAY | 430 LF ROADWAY | @ 1 TREE / 40 LF = 11 TREES | 11 |
| GERWIG LANE | 647 LF ROADWAY | @ 1 TREE / 40 LF = 17 TREES | 17 |
| | | TOTAL PROVIDED = 44 TREES | 44 |

SCHEDULE B: PARKING LOT INTERIOR LANDSCAPING

| | |
|---|-----|
| NUMBER OF SPACES | 362 |
| NUMBER OF PLANTS REQUIRED | 18 |
| NUMBER OF PLANTS PROVIDED | 18 |
| SHADE TREES | 18 |
| OTHER TREES (2:1 SUBSTITUTION) | 0 |
| INTERNAL ISLANDS REQUIRED | 18 |
| INTERNAL ISLANDS PROVIDED (MIN. 200 SF) | 18 |

CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] DATE: 12/11/12

CHIEF, DIVISION OF LAND DEVELOPMENT
[Signature] DATE: 12/11/12

DIRECTOR
[Signature] DATE: 12/14/12

HUMAN & ROHDE, INC.
Landscape Architects
512 Virginia Ave.
Towson, Maryland 21286
(410) 825-3885 Phone
(410) 825-3887 Fax

OWNER:

- SNOWDEN ROCK, LLC; TRANSITION ROCK, LLC; PILL ROCK, LLC C/O H&H ROCK 6800 DEERPATH ROAD ELKBRIDGE, MD 21075 410-579-2442
- OTO ROCK, LLC; COLEMAN ROCK, LLC C/O OTO DEVELOPMENT 961 E. MAIN STREET SPARTANBURG, SC 29302 864-327-4035
- CHEVY CHASE BANK, F.S.B. 7501 WISCONSIN AVENUE, 9TH FLR BETHESDA, MD 20814 240-497-7032

DEVELOPER:

- H&H ROCK 6800 DEERPATH ROAD SUITE 100 ELKBRIDGE, MD 21075 410-579-2442

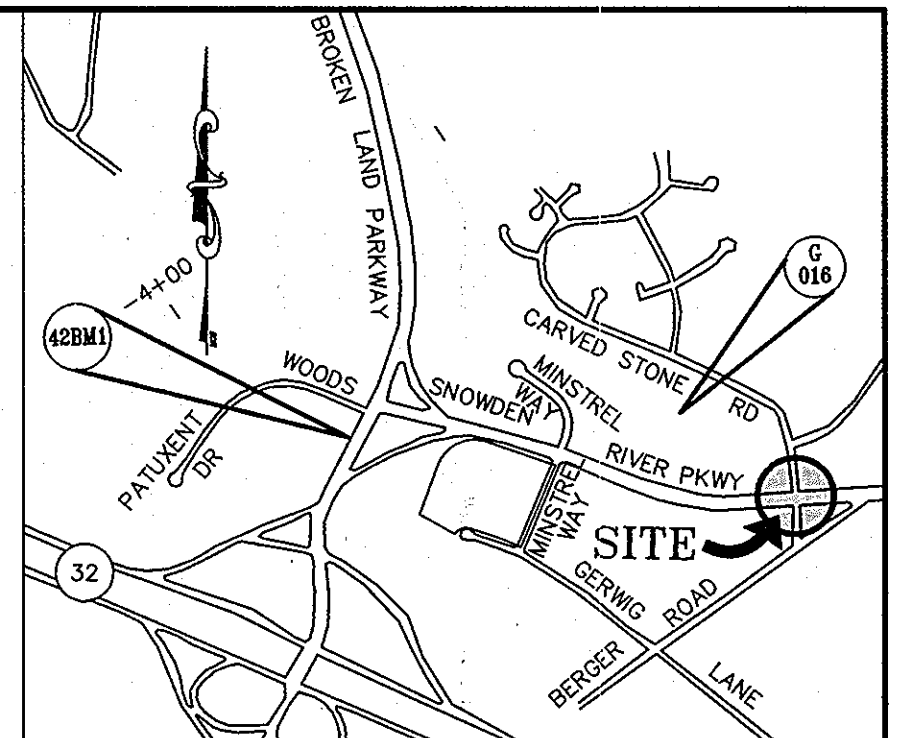
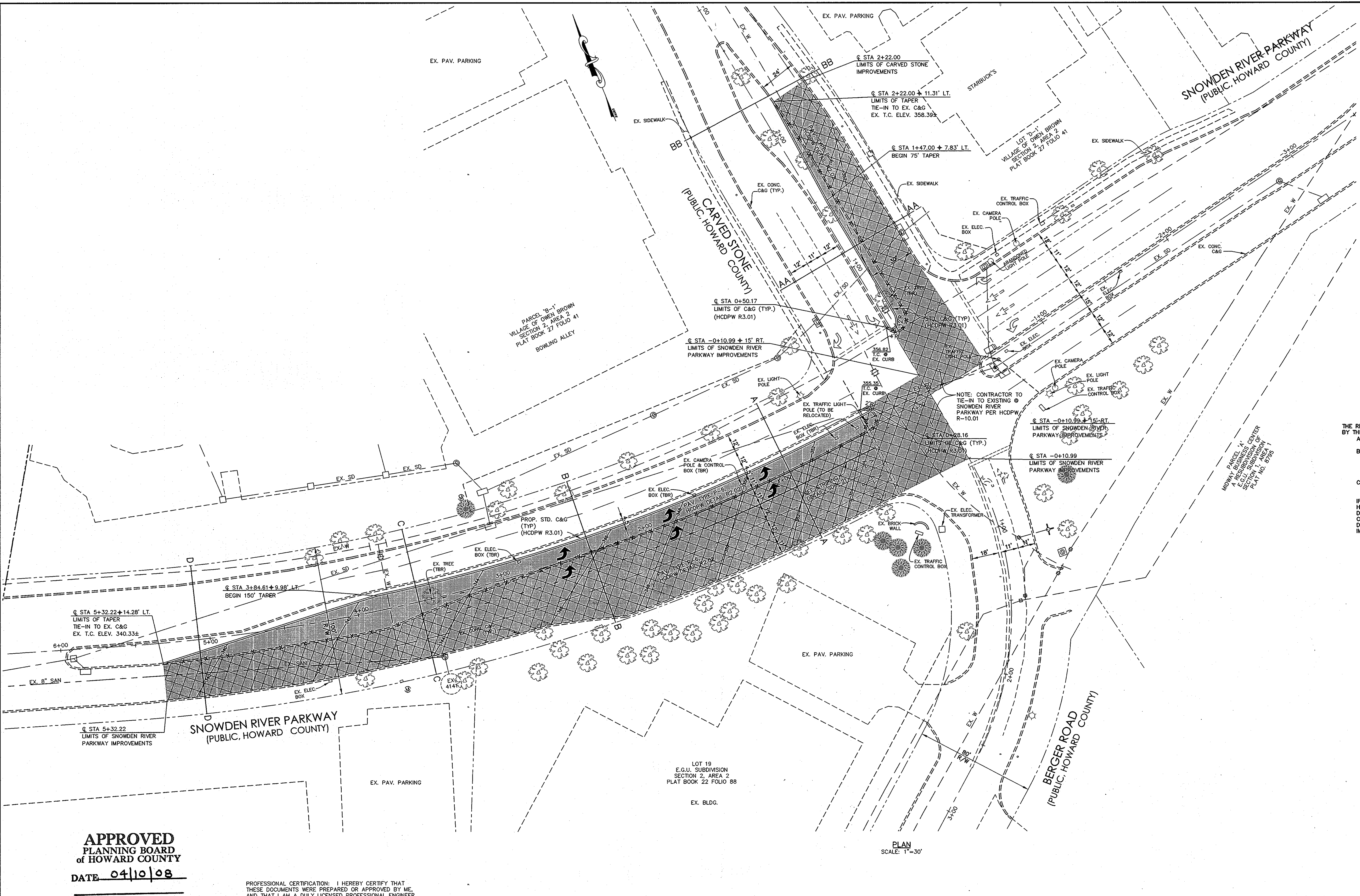
| NO. | REVISION | DATE |
|-----|-----------------------------|-------|
| 1 | ADDED BUILDINGS 'C' AND 'D' | 10/12 |
| 2 | ADDED SHEETS 30-32 | |

LANDSCAPE PLAN
REVISED SDP-07-078
MINSTREL CROSSING II
MINSTREL CROSSING SUBDIVISION
LOTS 24 THROUGH 28

ELECTION DISTRICT 6
PLAT REF. 19555, 17/35, 24/99
SCALE: AS SHOWN
DRG NO.: SDP-19

HOWARD COUNTY, MD
M 42 G 3, P 375, 399
MAY 29, 2008
SHEET 19 OF 32

SDP-07-078



VICINITY MAP
1"=1000'

LEGEND

- PROPERTY LINE: - - - - -
- EXISTING R/W: ————
- EX. CURB, TO BE REMOVED: -X-X-X-
- PROPOSED FULL DEPTH PAVING: [Cross-hatched pattern]
- PROP. MILLING, OVERLAY AND RESURFACING: [Diagonal hatched pattern]
- TO BE REMOVED/RELOCATED: TBR
- EX. TREE: [Tree symbol]

NOTE: ALL PAVING SHOWN FOR SNOWDEN RIVER PARKWAY AND CARVED STONE IMPROVEMENTS SHALL BE PAVING SECTION P-6 (SEE SHEET SDP-14)

NOTE: FOR TYPICAL CROSS-SECTIONS AND STRIPING DETAILS SEE SHEET SDP-21

THE REQUIRED APFO PUBLIC ROAD MITIGATION FOR THIS PLAN HAS BEEN MET BY THE FOLLOWING:

- A FEE-IN-LIEU PAYMENT FOR IMPROVEMENTS TO PATUXENT WOODS DRIVE AT BROKEN LAND PARKWAY.
- A FEE-IN-LIEU OF CONSTRUCTION PAID FOR THE REMAINING 3' WIDE STRIP OF MINSTREL WAY ALONG THE WESTERN HALF OF MINSTREL WAY DOWN TO GERWIG LANE, THUS COMPLETING THE DEVELOPER'S HALF OF MINSTREL WAY UPON ACQUISITION OF THE FULL MINSTREL WAY RIGHT-OF-WAY BY HOWARD COUNTY.
- PLANS FOR MODIFICATIONS TO THE CARVED STONE INTERSECTION AT SNOWDEN RIVER PARKWAY ARE ALSO PART OF THIS PLAN SET FOR PURPOSES OF APFO REQUIREMENTS.

IF THE FULL 60' RIGHT-OF-WAY FOR MINSTREL WAY IS OBTAINED BY HOWARD COUNTY WITHIN TWO YEARS OF SIGNATURE OF THIS SDP, THE DEVELOPER WILL CONSTRUCT THE FULL MINSTREL WAY TO ITS ULTIMATE CONDITIONS, THUS SATISFYING ALL APFO REQUIREMENTS AND THE DEVELOPER SHALL BE RELIEVED OF THE REQUIREMENT FOR APFO IMPROVEMENTS WITH RESPECT TO ITEMS A-C ABOVE.

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 04/10/08

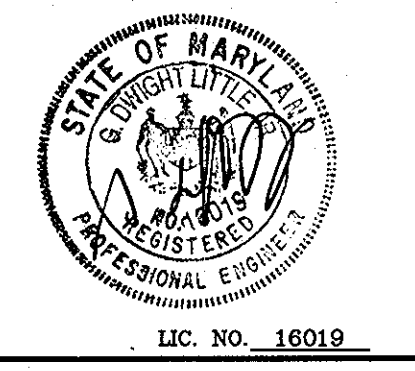
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16019, EXPIRATION DATE 5/9/2010.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION: *[Signature]* DATE: 5/6/08

CHIEF, DIVISION OF LAND DEVELOPMENT: *[Signature]* DATE: 2/8/08

DIRECTOR: *[Signature]* DATE: 2/8/08



LITTLE & ASSOCIATES, INC.
ENGINEERS~LAND PLANNERS~SURVEYORS
1055 TAYLOR AVENUE, SUITE 307
TOWSON, MARYLAND 21286
PHONE: (410)296-1636 FAX: (410)296-1639

OWNER:

SNOWDEN ROCK, LLC; OTO ROCK, LLC; COLEMAN ROCK, LLC
TRANSITION ROCK, LLC; PILL ROCK, LLC
C/O H&H ROCK C/O OTO DEVELOPMENT
6800 DEERPATH ROAD 961 E. MAIN STREET
ELKRIDGE, MD 21075 SPARTANBURG, SC 29302
410-579-2442 864-327-4035

CHEVY CHASE BANK, F.S.B.
7501 WISCONSIN AVENUE, 9TH FLR
BETHESDA, MD 20814
240-497-7032

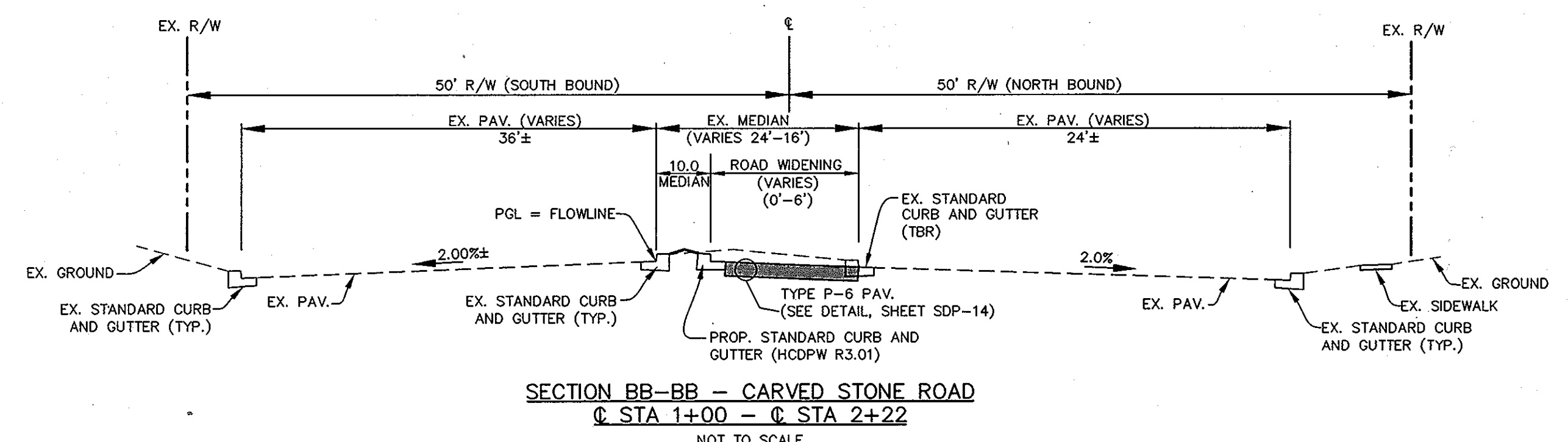
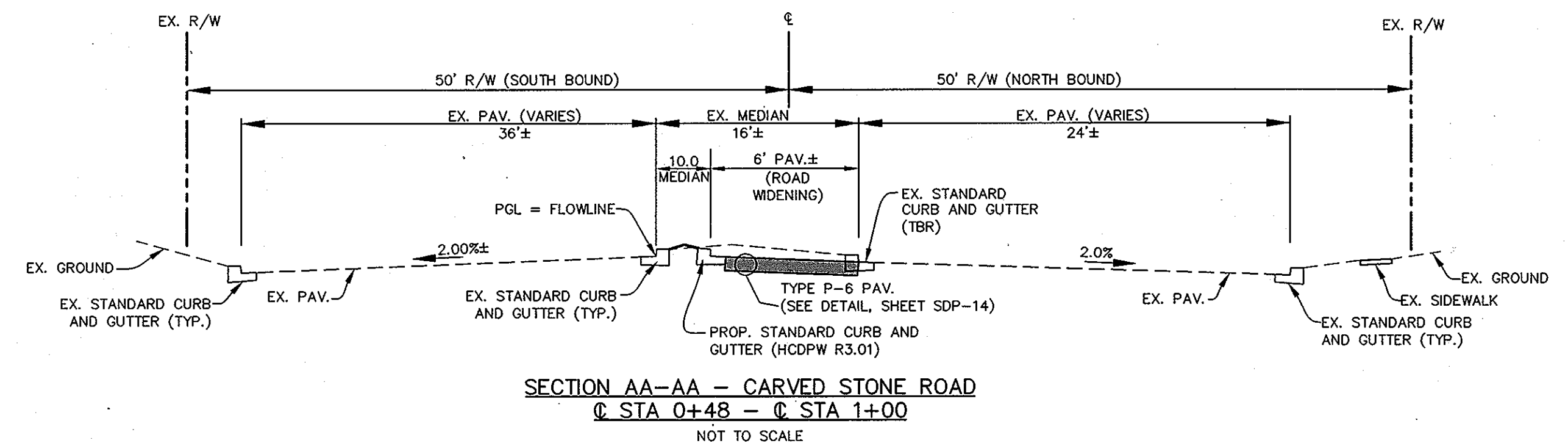
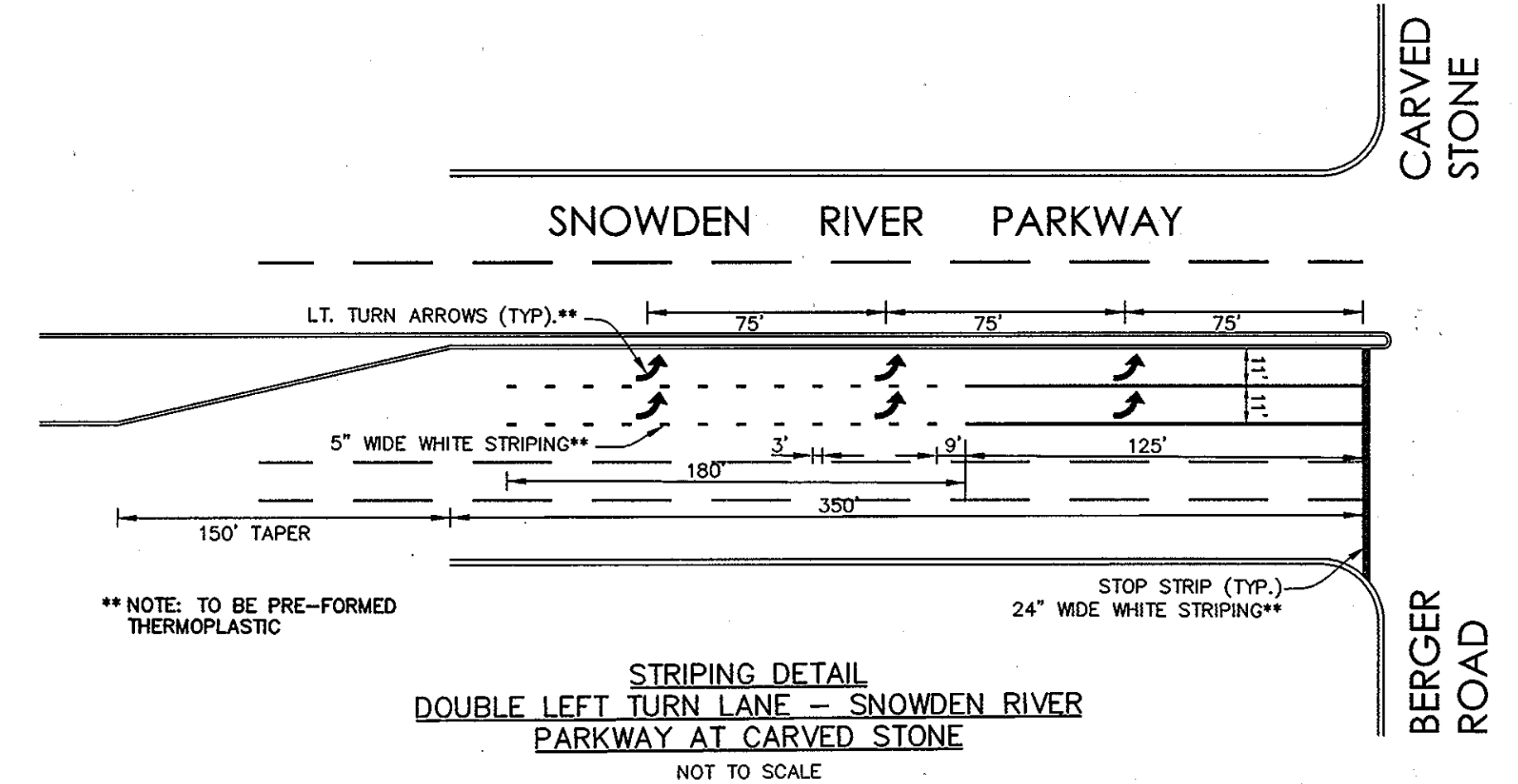
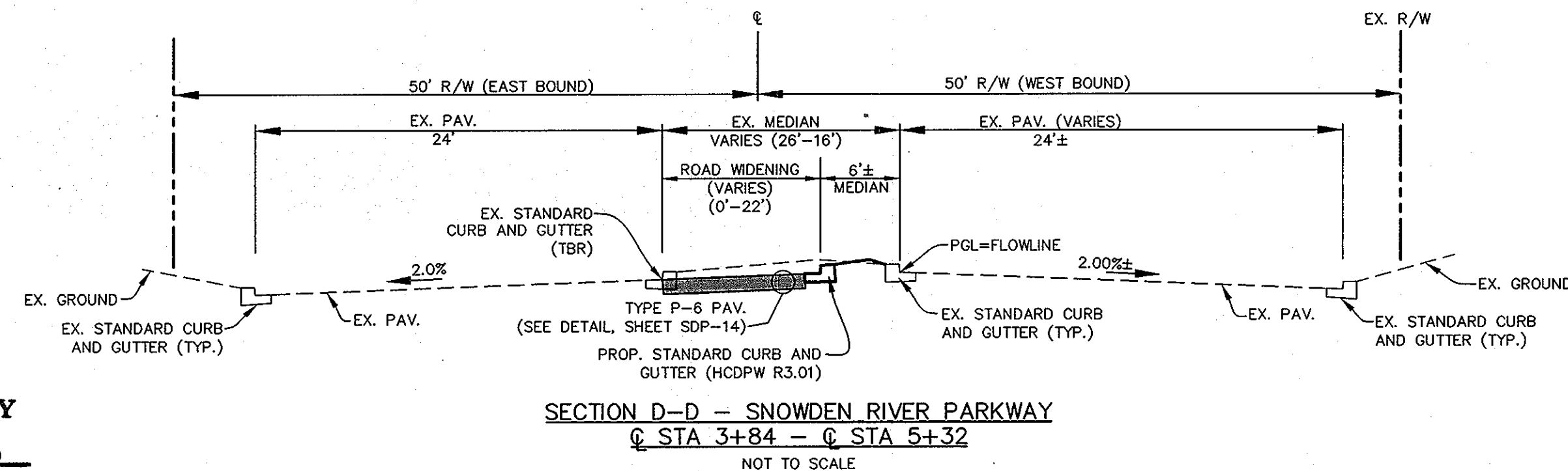
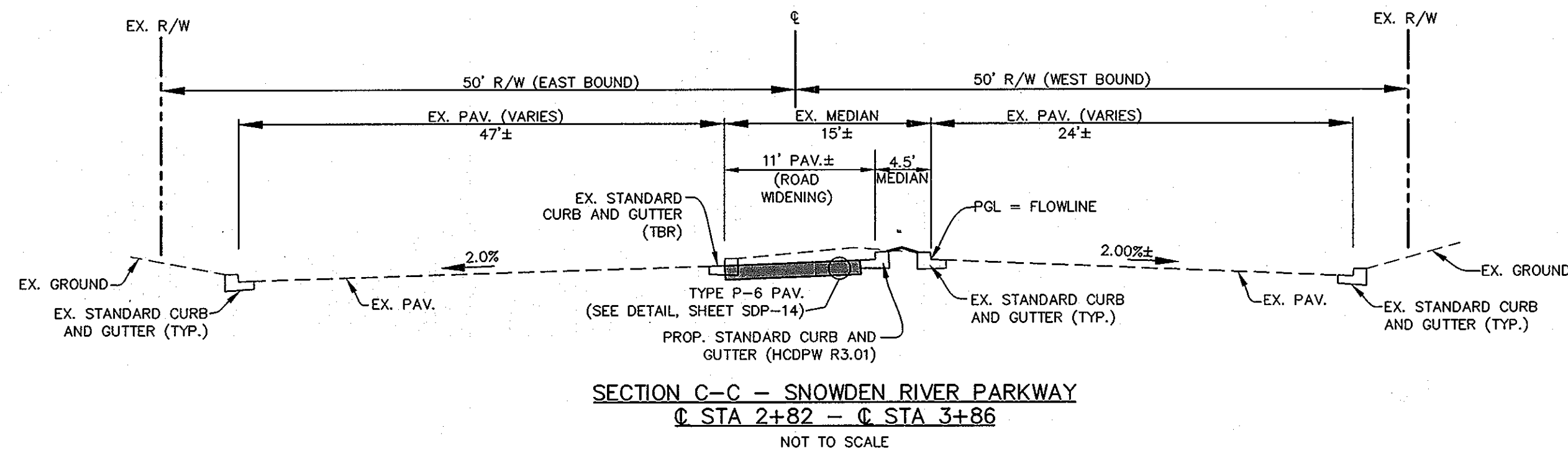
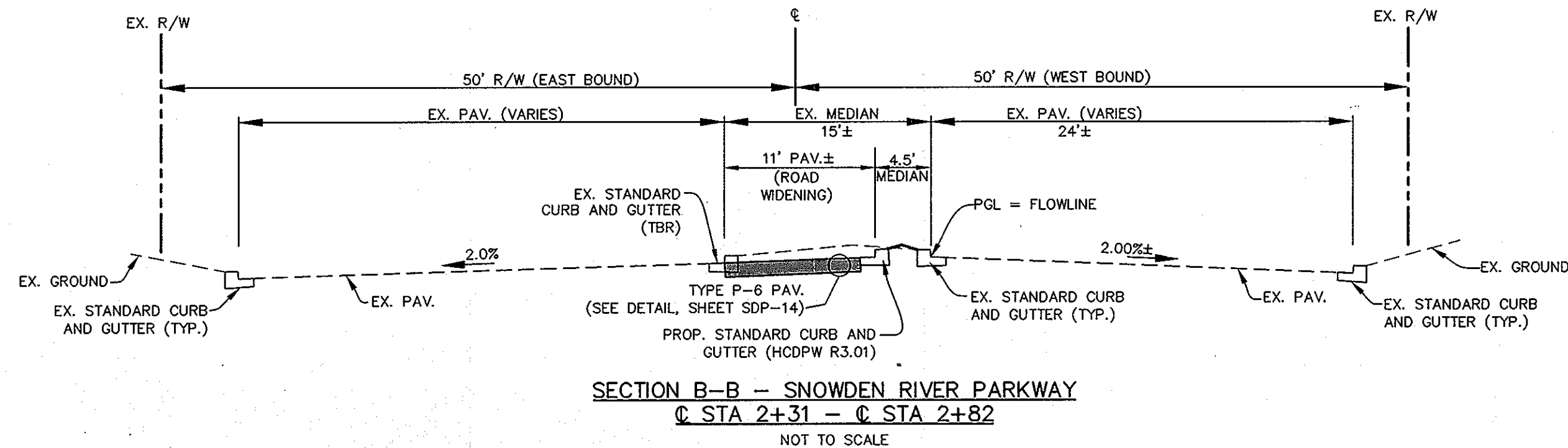
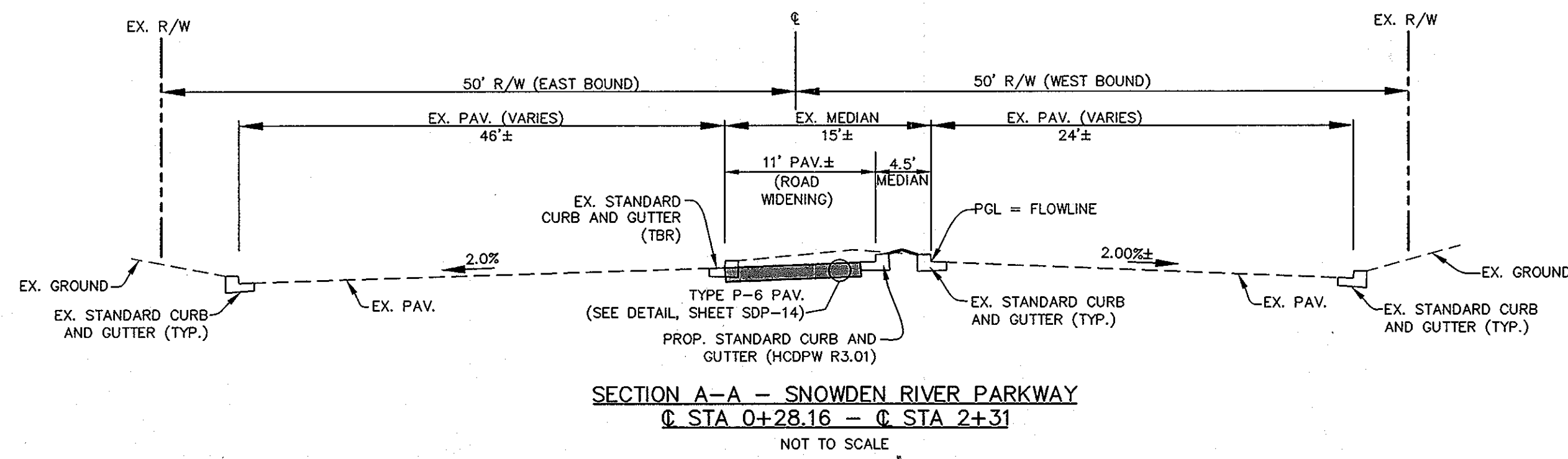
DEVELOPER:

H&H ROCK
6800 DEERPATH ROAD
SUITE 100
ELKRIDGE, MD 21075
410-579-2442

| | | |
|-----|---|----------|
| LAI | ADDED BUILDINGS C/P, ADDED SHEETS 20-22 | 10/2012 |
| BY | No. | REVISION |
| | | DATE |

ROADS
CARVED STONE
REVISED SDP-07-078
MINSTREL CROSSING II
CARVED STONE INTERSECTION
IMPROVEMENTS

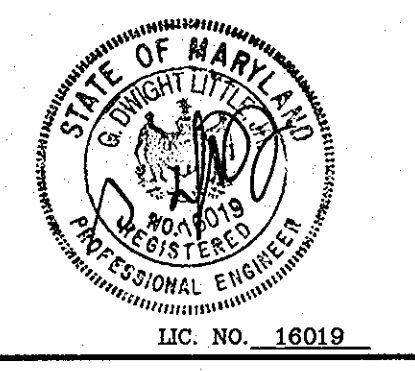
ELECTION DISTRICT 6 HOWARD COUNTY, MD
PLAT REF. 19555, 17/35, 24/99 M 42 G 3, 9 P 375, 399
SCALE: AS SHOWN MAY 12, 2008
DRG NO.: SDP-20 SHEET 20 OF 32



APPROVED
 PLANNING BOARD
 of HOWARD COUNTY
 DATE 04/10/08

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. 16019, EXPIRATION DATE 5/8/2010.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DIRECTOR

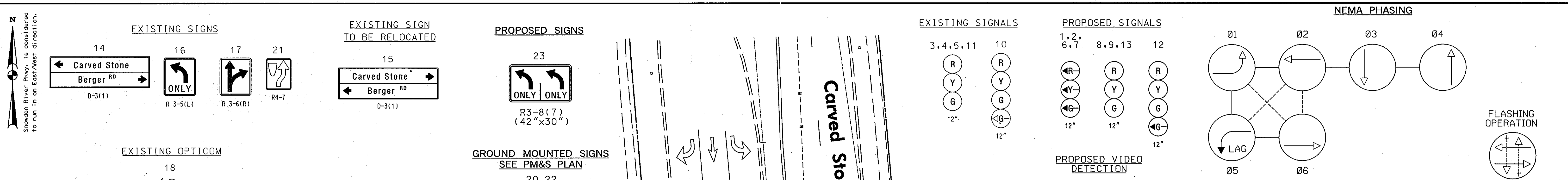


LITTLE & ASSOCIATES, INC.
 ENGINEERS~LAND PLANNERS~SURVEYORS
 1055 TAYLOR AVENUE, SUITE 307
 TOWSON, MARYLAND 21286
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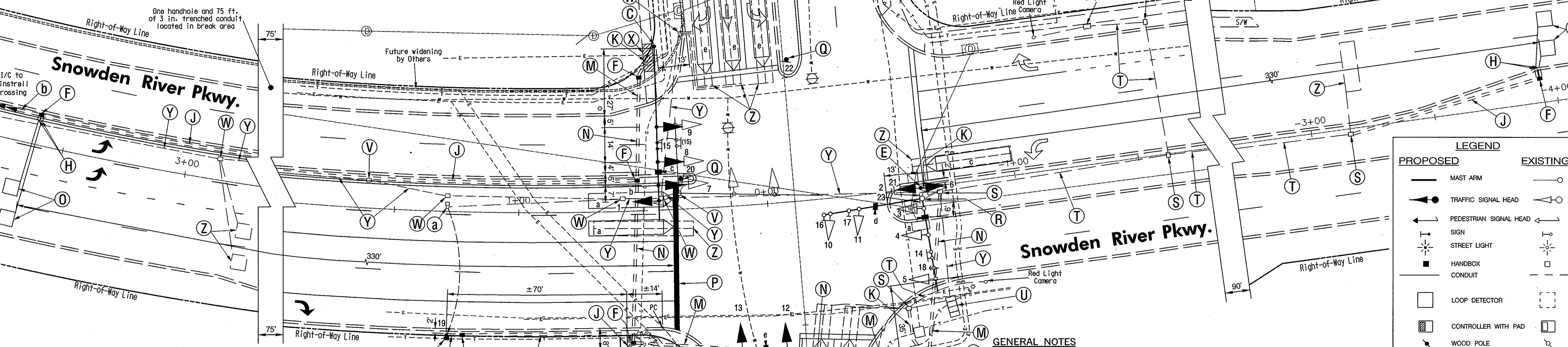
OWNER:
 SNOWDEN ROCK, LLC; OTO ROCK, LLC; COLEMAN ROCK, LLC
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 7501 WISCONSIN AVENUE, 9TH FLR
 BETHESDA, MD 20814
 240-497-7032

| BY | No. | REVISION | DATE |
|--------|-----|---|----------|
| L.A.I. | 1 | ADDED BUILDINGS C&P, ADDED SHEETS 20-22 | 10/12/07 |
| | | | |
| | | | |
| | | | |

ROADS
 CARVED STONE
 REVISED SDP-07-078
MINSTREL CROSSING II
 CARVED STONE INTERSECTION IMPROVEMENTS
 TYPICAL SECTIONS AND DETAILS
 ELECTION DISTRICT 6 HOWARD COUNTY, MD
 PLAT REF. 19555, 17/35, 24/99 M 42 G 3, 9 P 375, 399
 SCALE: AS SHOWN MAY 12, 2008
 DRG NO.: SDP-20 SHEET 21 OF 32



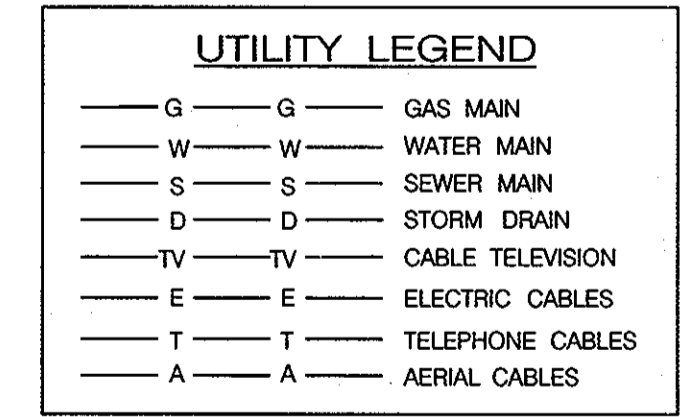
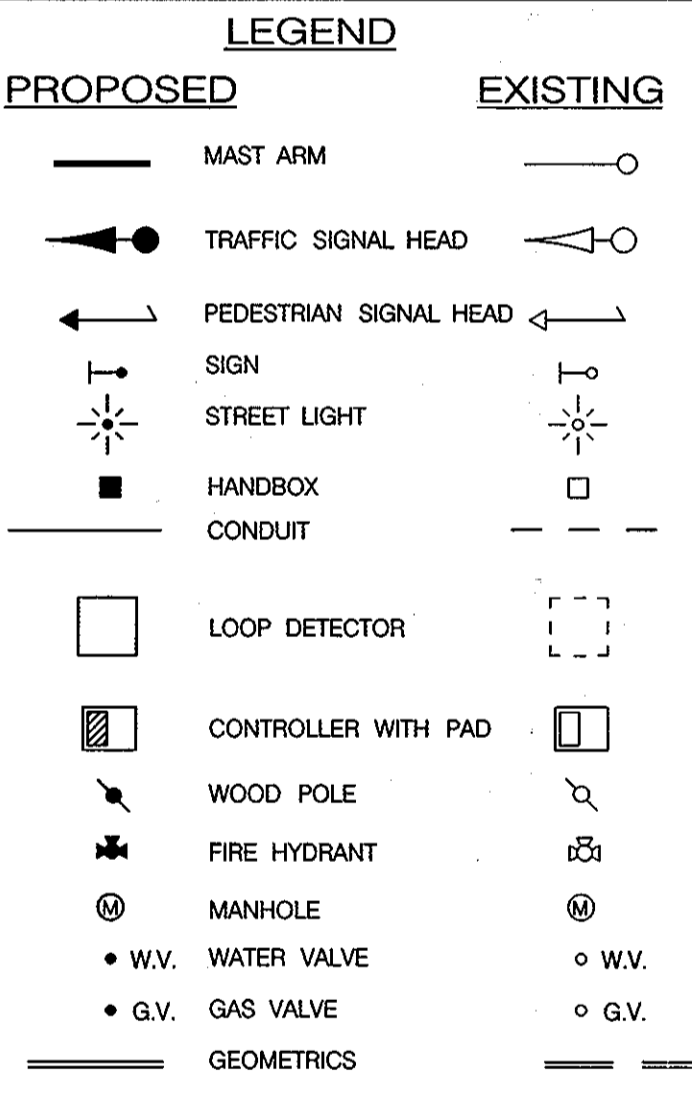
- CONSTRUCTION DETAILS**
- A. INSTALL NEMA SIZE 6 BASE MOUNTED CABINET WITH INTERSECTION CONTROLLER. (NOTE: TWO 4 IN. AND TWO 2 IN. CONDUIT BENDS).
 - B. INSTALL UPS CABINET WITH UPS EQUIPMENT (NOTE: ATTACHED TO NEMA 6 CABINET).
 - C. INSTALL 21 FT. (CUT FROM A 27 FT.) STEEL POLE WITH A 70 FT. MAST ARM WITH SIGNAL HEADS, OVERHEAD VIDEO DETECTION CAMERA, AND RELOCATED OVERHEAD SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
 - D. INSTALL 21 FT. (CUT FROM A 27 FT.) STEEL POLE WITH A 70 FT. MAST ARM WITH SIGNAL HEADS AND OVERHEAD VIDEO DETECTION CAMERA. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).



- CONSTRUCTION DETAILS Cont.**
- E. INSTALL 14 FT. PEDESTAL POLE ON BREAK AWAY BASE WITH VEHICLE SIGNAL HEADS. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
 - F. INSTALL HANDHOLE.
 - G. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR ELECTRICAL SERVICE - TRENCHED. TO BE DETERMINED IN THE FIELD.
 - H. INSTALL 1 IN. FLEXIBLE CONDUIT FOR LOOP DETECTOR LEAD-IN.
 - J. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - K. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - HAND TRENCHED DUE TO UTILITIES.
 - L. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - M. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - HAND TRENCHED DUE TO UTILITIES.
 - N. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED IN ROADWAY.
 - O. INSTALL 6 FT. X 6 FT. VEHICLE LOOP DETECTOR (4 TURNS).
 - P. 24 IN. PAVEMENT MARKING FOR STOP LINE INSTALLED AS PART OF PAVEMENT MARKING AND SIGNING PLAN.
 - Q. SIGN INSTALLED AS PART OF THE PAVEMENT MARKING AND SIGNING PLAN.
 - R. USE EXISTING SIGNAL POLE. INSTALL VIDEO DETECTION CAMERAS AND POLE MOUNTED SIGN. REMOVE EXISTING SIDE POLE MOUNTED SIGNAL HEAD. INSTALL NEW CABLES FOR EXISTING EQUIPMENT DUE TO NEW CONDUIT RUN.
 - S. USE EXISTING HANDHOLE.
 - T. USE EXISTING CONDUIT.
 - U. REMOVE EXISTING CABINET/CONTROLLER AND ALL ATTACHED EQUIPMENT.
 - V. REMOVE EXISTING STEEL SIGNAL POLE AND ALL ATTACHED EQUIPMENT.
 - W. REMOVE EXISTING HANDHOLE.
 - X. REMOVE AND REPLACE EXISTING SIDEWALK FOR CONDUIT INSTALLATION.
 - Y. CAP AND ABANDON EXISTING CONDUIT.
 - Z. DISCONNECT AND REMOVE EXISTING LOOP DETECTOR CABLE FROM CONDUITS, HANDBOXES, SIGNAL STRUCTURES AND CONTROLLER.
 - a. RELOCATE EXISTING REDLIGHT CAMERA AND EQUIPMENT. LOCATION TO BE DETERMINED IN THE FIELD DUE TO PROXIMITY OF UTILITIES.
 - b. SEE INTERCONNECT PLAN.
 - c. TREE TO BE REMOVED BY OTHERS.

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 04/10/08

- GENERAL NOTES**
1. Video camera location/aligning shall be coordinated with the engineer.
 2. The contractor shall verify all proposed pole and cabinet locations prior to installation.
 3. For final pavement markings refer to the pavement marking plans, other than those detailed on the plan. All pavement markings shall be installed in accordance with County Standards.
 4. All existing traffic signal equipment removed shall become the property of the signal contractor upon completion of the new signal.
 5. All proposed luminaires shall be supplied with a photocell.
 6. The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly label each cable.
 7. The contractor shall verify all underground utilities prior to installing proposed signal equipment. If any utility conflicts should arise the contractor shall contact the project engineer.
 8. All traffic signal foundations shall be installed at the final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections, to meet clearances as specified in MD 816.03, MD 818.01, MD 818.02, MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.



APPROVED: DEPARTMENT OF PLANNING AND ZONING

DATE: 5/6/08
 DATE: 5/6/08

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. 25547
 Expiration Date: 7/1/10

The Traffic Group, Inc.
 Suite H
 9900 Franklin Square Drive
 Baltimore, Maryland 21236
 410-931-6600
 1-800-583-8411
 Fax 410-931-6601
 "Merging Innovation and Excellence"

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 SNOWDEN ROCK, LLC;
 TRANSITION ROCK, LLC; PILL ROCK, LLC
 C/O OTO DEVELOPMENT
 961 E. MAIN STREET
 SPARTANBURG, SC 29302
 864-327-4035

DEVELOPER:
 H&H ROCK
 6800 DEERPATH ROAD
 SUITE 100
 ELKRIDGE, MD 21075
 410-579-2442

OTD ROCK, LLC; COLEMAN ROCK, LLC
 C/O OTO DEVELOPMENT
 961 E. MAIN STREET
 SPARTANBURG, SC 29302
 864-327-4035

CHEVY CHASE BANK, F.S.B.
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 240-497-7032

ROADS
CARVED STONE
REVISED SDP-07-078
MINSTREL CROSSING II
CARVED STONE INTERSECTION
TRAFFIC SIGNAL PLAN

ELECTION DISTRICT 6
 PLAT REF. 19555, 17/35, 24/99
 SCALE: 1" = 20'
 DRG NO.: SDP-20

HOWARD COUNTY, MD
 M 42 G 3, 9 P 375, 399
 MAY 8, 2008
 SHEET 22 OF 32

**PROJECT DESCRIPTION
GENERAL**

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF SNOWDEN RIVER PKWY. AT CARVED STONE/ BERGER ROAD IN HOWARD COUNTY.

INTERSECTION OPERATION

A NEW CABINET/CONTROLLER SHALL BE UTILIZED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. THE EXISTING EXCLUSIVE LEFT TURN PHASES FOR THE NORTH AND SOUTHBOUND MOVEMENTS OF SNOWDEN RIVER PARKWAY WILL BE CHANGED TO A LEAD-LAG OPERATION. THE SNOWDEN RIVER PARKWAY THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THE CARVED STONE/ BERGER ROAD THROUGH MOVEMENTS WILL CONTINUE TO OPERATE IN A SPLIT PHASE OPERATION.

EQUIPMENT LIST

A. Equipment to be furnished by the County when reimbursed by Developer or Contractor.

| Quantity | Units | Description |
|----------|-------|--|
| 1 | EA | Traffic signal controller, base mounted cabinet, video detection interface, telemetry interface equipment, and one (1) four-channel loop detector amplifier. |
| 3 | EA | 12 in., one-way, three section L.E.D. (R,Y,G) adjustable yellow faced traffic signal head with mast arm mounting hardware and tunnel visors. |
| 2 | EA | 12 in., one-way, three section L.E.D. (RA,YA,GA) adjustable yellow faced traffic signal head with mast arm mounting hardware and tunnel visors. |
| 1 | EA | 12 in., two-way, three section L.E.D. (RA,YA,GA) adjustable yellow faced traffic signal head with post top mounting hardware and tunnel visors. |
| 1 | EA | 12 in., one-way, four section L.E.D. (R,Y,G,GA) adjustable yellow faced traffic signal head with mast arm mounting hardware and tunnel visors. |
| 4 | EA | Video Detection Camera and cable, (1 - 100 LF, 1 - 200 LF, 1 - 300 LF, 1 - 400 LF) |

C. Equipment to be installed by the County signal shop when reimbursed by the developer or contractor.

| Quantity | Units | Description |
|----------|-------|-------------------------|
| 1 | EA | Battery back-up system. |

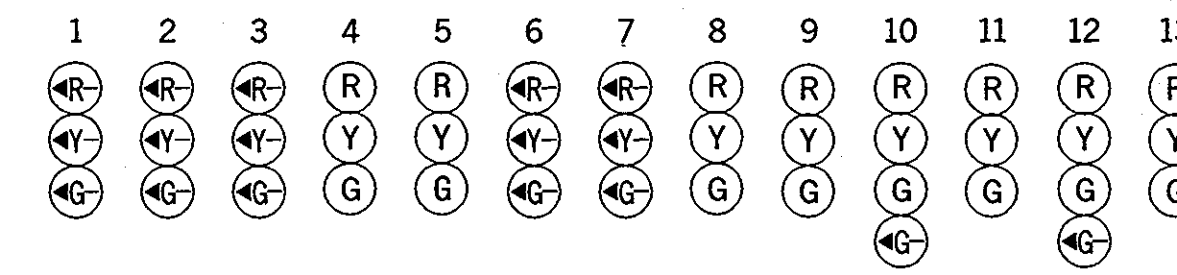
B. Equipment to be furnished and/or installed by the contractor.

| Quantity | Units | Description |
|----------|-------|---|
| Lump Sum | LS | Mobilization. |
| Lump Sum | LS | Maintenance of traffic. |
| 2 | EA | * 27 ft. steel mast arm pole with a 70 ft. mast arm (to be painted brown in accordance with Tnemec standards and specifications). |
| 1 | EA | * 14 ft. steel pedestal pole on a break away base (to be painted brown in accordance with Tnemec standards and specifications). |
| 1 | EA | 42 in. x 30 in. R 3-8(T) sign with pole mounting hardware. |
| 3 | CY | Test pit excavation. |
| 9 | EA | Handbox. |
| 200 | LF | Sawcut for loop detector. |
| 590 | LF | Loop detector wire (No. 14 A.W.G.) enclosed in flexible tubing. |
| 50 | LF | 1-conductor electrical cable (No. 4 A.W.G.). |
| 1915 | LF | 2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.). |
| 2500 | LF | 5-conductor electrical cable (No. 14 A.W.G.). |
| 775 | LF | 6-pair (No. 24 A.W.G.) voice grade telemetry interconnect cable. |
| 300 | LF | 12-pair Laser cable (cable shall be purchased from Lasercraft). Contact Jacquelyn Nuygen at 410-884-5882. |
| 1000 | LF | Opticom detector cable. |
| 360 | LF | Stranded THWN green ground wire (No. 6 A.W.G.). |
| 20 | LF | 1 in. liquid tight flexible conduit for loop detector sleeve. |
| 25 | LF | 2 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched. |
| 760 | LF | 3 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched. |
| 110 | LF | 4 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched. |
| 100 | LF | 4 in. polyvinyl chloride (Schedule 80) electrical conduit - slotted. |
| 12.5 | CY | Concrete foundation for traffic signal equipment. |
| 4 | EA | Ground rod - 3/4 in. diameter x 10 ft. length. |
| 1 | EA | Electrical utility service equipment (120/240 V), one phase, three wire system for an underground electrical power service. |
| 2 | EA | Out, clean, and cap mast arm pole. |
| 45 | SF | Remove and replace 4 in. sidewalk. |
| 1 | EA | Relocate overhead sign. |
| Lump Sum | LS | Relocate signal and red light camera equipment. |
| Lump Sum | LS | Remove and salvage signal equipment. |
| Lump Sum | LS | Remove existing interconnect cable (approx. 720 FT) |

* Paint System Requirements:
Color shall conform to the following Federal Standard #595a-20040 - Brown.
A) Primers shall be an Epoxy Polyamide meeting the requirements of Section 912.03.02.
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. 25547 Expiration Date: 9/27/08

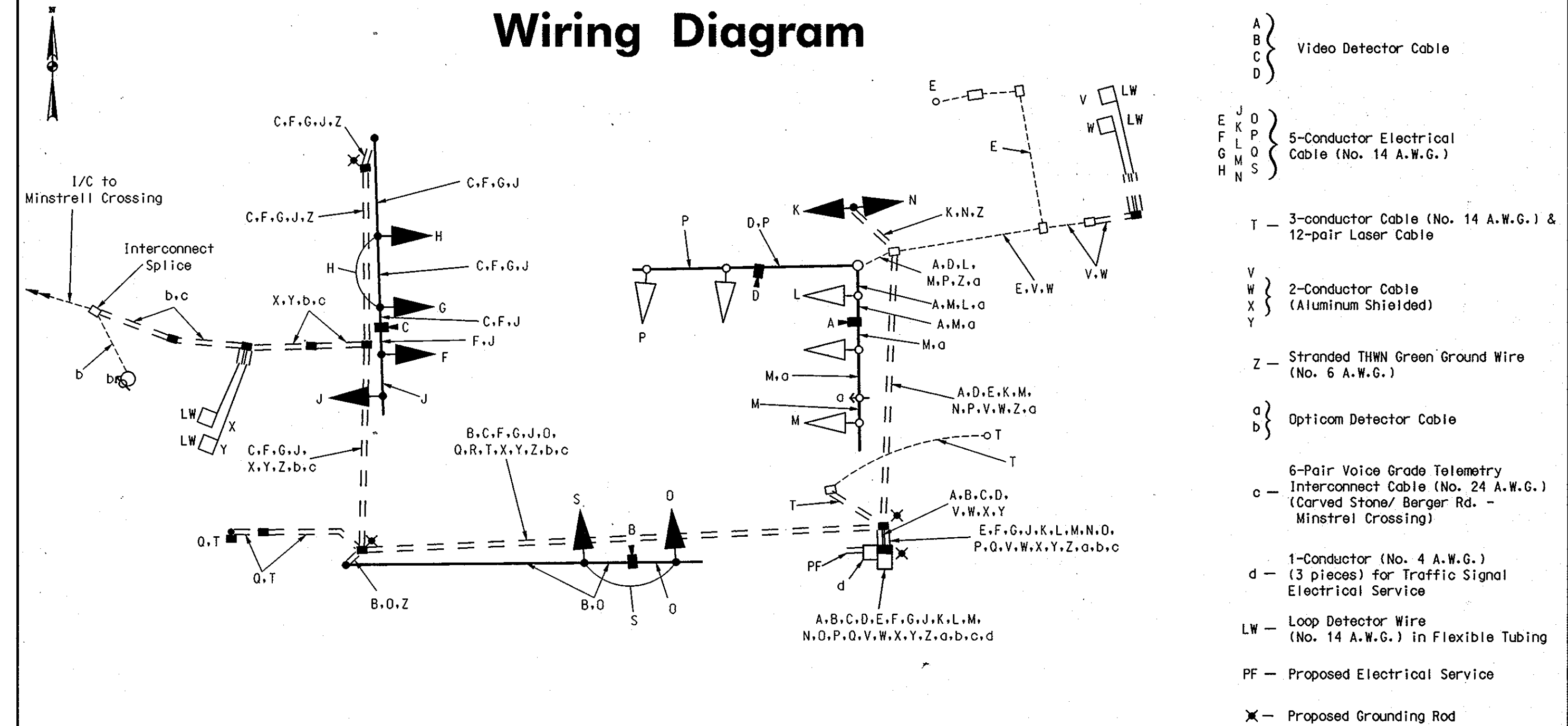
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License No. 25547 Expiration Date: 9/27/08

Phase Chart



| PHASE 1 AND 6 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|--------------------|-------|-------|-------|------|------|-------|-------|------|------|------|------|------|------|
| 1 CHANGE | +G | +G | +G | G | G | +R | +R | R | R | R | R | R | R |
| PHASE 2 AND 6 | +R | +R | +R | G | G | +R | +R | G | G | R | R | R | R |
| 6 CHANGE | +R | +R | +R | Y | Y | +R | +R | G | G | R | R | R | R |
| PHASE 2 AND 5 | +R | +R | +R | R | G | +G | +G | G | G | R | R | R | R |
| 5 CHANGE | +R | +R | +R | R | G | +Y | +Y | Y | Y | R | R | R | R |
| PHASE 3 | +R | +R | +R | R | R | +R | +R | R | R | R | R | G | G |
| 3 CHANGE | +R | +R | +R | R | R | +R | +R | R | R | R | R | Y | Y |
| PHASE 4 | +R | +R | +R | R | R | +R | +R | R | R | G | G | R | R |
| 4 CHANGE | +R | +R | +R | R | R | +R | +R | R | R | Y | Y | R | R |
| FLASHING OPERATION | FL/+R | FL/+R | FL/+R | FL/Y | FL/Y | FL/+R | FL/+R | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R |

Wiring Diagram



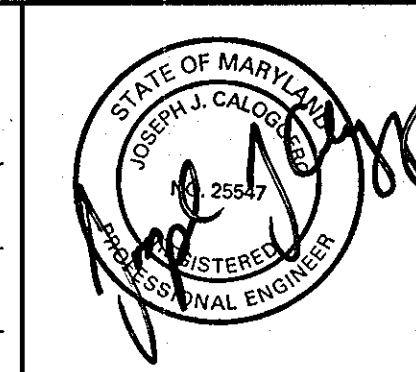
**APPROVED
PLANNING BOARD
of HOWARD COUNTY**
DATE 04/10/08

ROADS
CARVED STONE
REVISED SDP-07-078
MINSTREL CROSSING II
CARVED STONE INTERSECTION
TRAFFIC SIGNAL GENERAL INFORMATION

ELECTION DISTRICT 6
PLAT REF. 19555, 17/35, 24/99
SCALE: N/A
DRG NO.: SDP-20

HOWARD COUNTY, MD
M 42 G 3, 9 P 375, 399
MAY 8, 2008
SHEET 23 OF 32

APPROVED: DEPARTMENT OF PLANNING AND ZONING
DATE 8/6/08
DATE 8/8/08



The Traffic Group, Inc.
Suite H
9900 Franklin Square Drive
Baltimore, Maryland 21236
410-931-6600
1-800-583-8411
Fax 410-931-6801
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6800 DEERPATH ROAD
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410-579-2442

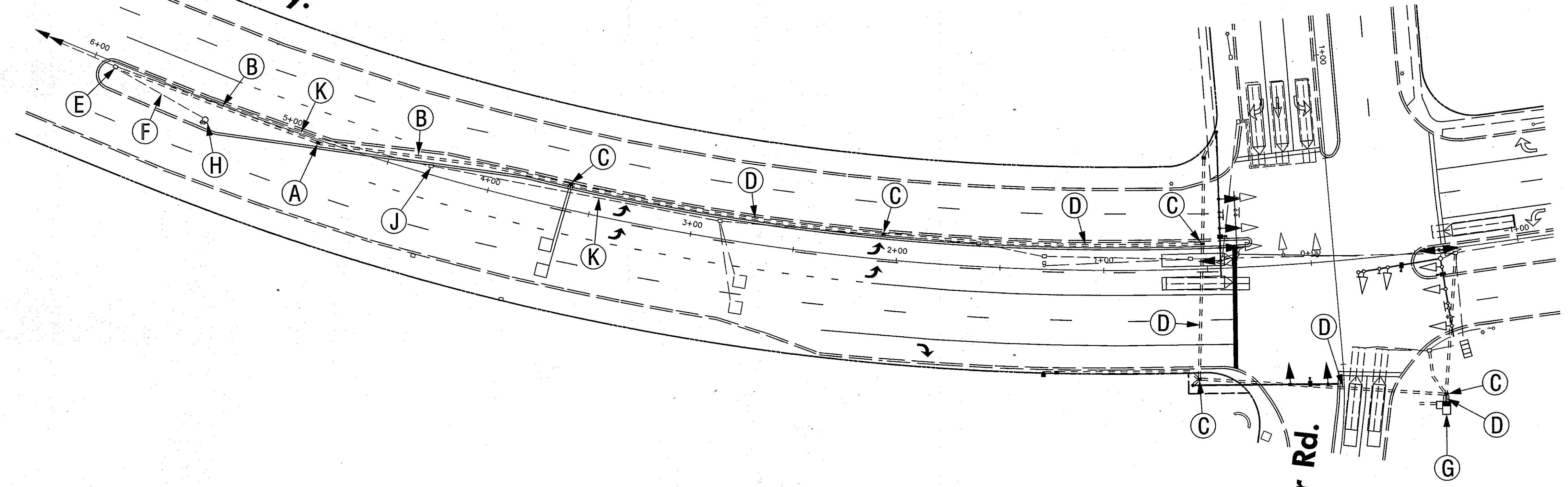
DEVELOPER:
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6800 DEERPATH ROAD
SUITE 100
ELKRIDGE, MD 21075
410-579-2442

Snowden River Pkwy. is considered to run in an East/West direction.

Snowden River Pkwy.

Carved Stone

Berger Rd.



CONSTRUCTION DETAILS

- A. INSTALL HANDHOLE.
- B. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- C. USE HANDHOLE INSTALLED AS PART OF THE SIGNAL PLAN.
- D. USE CONDUIT INSTALLED AS PART OF THE SIGNAL PLAN.
- E. USE EXISTING HANDHOLE, COUNTY TO SPLICE NEW TELEMETRY CABLE TO EXISTING CABLE.
- F. USE EXISTING CONDUIT.
- G. USE NEW CABINET/CONTROLLER AT SNOWDEN RIVER PKWY. AND CARVED STONE/ BERGER RD. INSTALL NEW 6-PAIR VOICE GRADE TELEMETRY CABLE FROM CARVED STONE/ BERGER RD. TO MINSTREL WAY. INSTALL NEW OPTICOM DETECTOR CABLE TO EXISTING EQUIPMENT.
- H. USE EXISTING OPTICOM DETECTOR. INSTALL NEW OPTICOM CABLE IN NEW CONDUIT RUN TO THE NEW CABINET/CONTROLLER AT SNOWDEN RIVER PKWY. AND CARVED STONE/ BERGER RD.
- J. REMOVE EXISTING HANDHOLE.
- K. CAP AND ABANDON EXISTING CONDUIT.

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 04/10/08

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.
Message No. 25547 Expiration Date: 9/25/08

NOTE: ALL QUANTITIES LISTED ON THE GENERAL INFORMATION SHEET 23 OF 29.

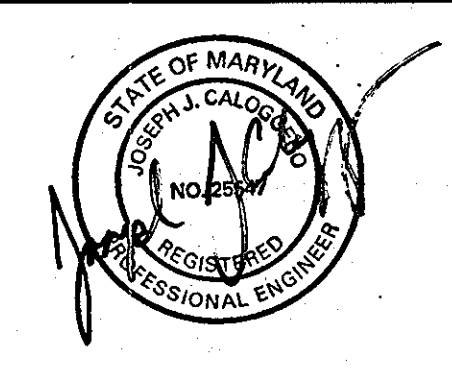
| L.A.I. | BY | NO. | REVISION | DATE |
|--------|----|-----|---|---------|
| 2 | | | ADDED BUILDINGS C/P, ADDED SHEETS 20-22 | 10/2012 |

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE 8/6/04

CHIEF, DIVISION OF LAND DEVELOPMENT
DATE 8/8/08

DIRECTOR



The Traffic Group, Inc.
Suite H
9900 Franklin Square Drive
Baltimore, Maryland 21236
410-931-6600
1-800-583-8411
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C/O H&H ROCK 961 E. MAIN STREET
6800 DEERPATH ROAD SPARTANBURG, SC 29302
ELKRIDGE, MD 21075 864-327-4035
410-579-2442
CHEVY CHASE BANK, F.S.B.
7501 WISCONSIN AVENUE, 9TH FLR
BETHESDA, MD 20814
240-497-7032

DEVELOPER:
H&H ROCK
6800 DEERPATH ROAD
SUITE 100
ELKRIDGE, MD 21075
410-579-2442

ROADS
CARVED STONE
REVISED SDP-07-078
MINSTREL CROSSING II
CARVED STONE INTERSECTION
INTERCONNECT PLAN

ELECTION DISTRICT 6
PLAT REF. 19555, 17/35, 24/99
SCALE: 1" = 40'
DRG NO.: SDP-20

HOWARD COUNTY, MD
M 42 G 3, 9 P. 375, 399
MAY 8, 2008
SHEET 24 OF 32



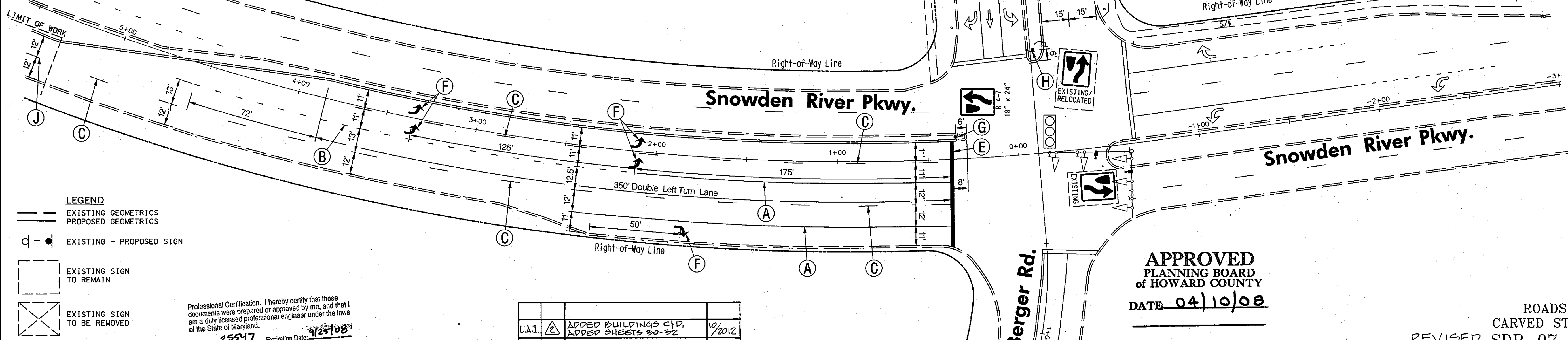
CONSTRUCTION DETAILS

- A. Install 5 in. wide pavement marking - white for lane line.
- B. Install 5 in. wide dotted pavement marking (3 ft. skip - 9 ft. space) - white for lane line.
- C. Install 5 in. wide broken pavement marking (10 ft. skip - 30 ft. space) - white for lane line.
- D. Install 5 in. wide pavement marking - double yellow for center line.
- E. Install 24 in. wide pavement marking - white for stop line.
- F. Install preformed pavement marking symbol.
- G. Install ground mounted sign.
- H. Relocate existing ground mounted sign.
- J. Tie to existing pavement markings.

MATERIAL LIST

Materials to be furnished and/or installed by the Contractor.
All material in this list shall have catalog cuts submitted for approval prior to installation.

| Quantity | Units | Specification Section | Description |
|----------|-------|-----------------------|---|
| Lump Sum | LS | 108 | Mobilization. |
| Lump Sum | LS | 104 | Maintenance of traffic. |
| 825 | LF | 549 | 5 in. wide pavement marking - white (thermoplastic). |
| 600 | LF | 549 | 5 in. wide pavement marking - yellow (thermoplastic). |
| 60 | LF | 549 | 24 in. HAPPTPM marking for stop line. |
| 4 | EA | 549 | White HAPPTPM symbol - "Left Arrow". |
| 3 | EA | 549 | White HAPPTPM symbol - "Right Arrow". |
| 1 | EA | 549 | White HAPPTPM symbol - "ONLY". |
| 1 | EA | 813 | 18 in. x 24 in. R 4-7 sign for ground mounting. |
| 2 | EA | 813 | 30 in. x 30 in. R 3-7 (R) sign for ground mounting. |
| 44 | LF | 812 | Steel U-channel sign support. |
| 1 | EA | --- | Relocate existing ground mounted sign. |



LEGEND

- EXISTING GEOMETRICS
- PROPOSED GEOMETRICS
- - ● EXISTING - PROPOSED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED

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. 25547, Expiration Date: 9/25/08

| BY | No. | REVISION | DATE |
|--------|-----|---|---------|
| L.A.I. | 2 | ADDED BUILDINGS C/P, ADDED SHEETS 20-22 | 10/2012 |

APPROVED
 PLANNING BOARD
 of HOWARD COUNTY
 DATE 04/10/08

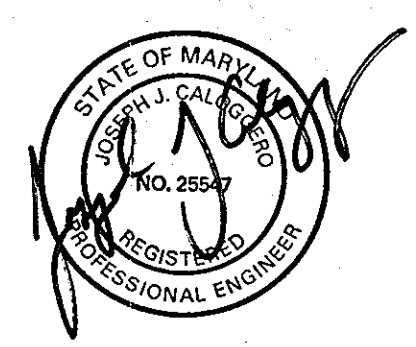
ROADS
 CARVED STONE
 REVISED SDP-07-078
MINSTREL CROSSING II
 CARVED STONE INTERSECTION
 PAVEMENT MARKING PLAN

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE 5/16/08

CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE 5/8/08

DIRECTOR



The Traffic Group, Inc.
 Suite H
 9900 Franklin Square Drive
 Baltimore, Maryland 21236
 410-931-6600
 1-800-583-8411
 Fax 410-931-6601
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 410-579-2442

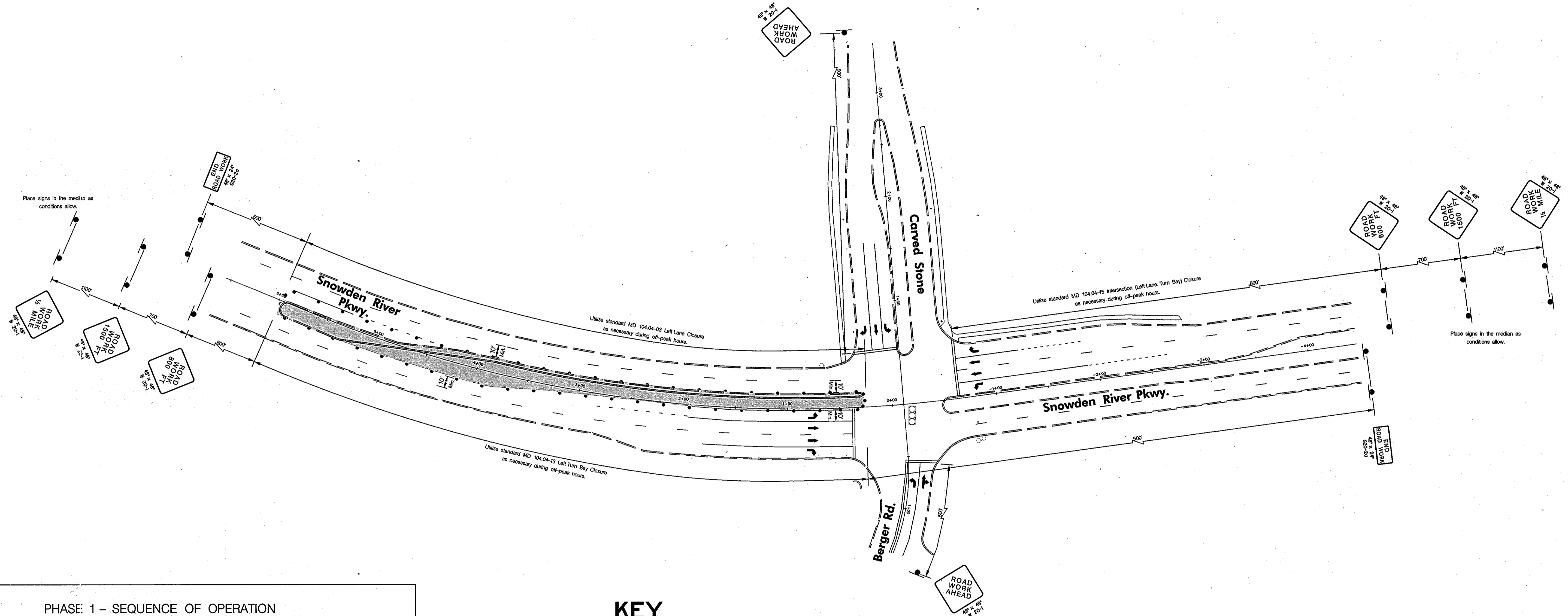
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 BETHESDA, MD 20814
 240-497-7032

DEVELOPER:
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 6800 DEERPATH ROAD
 SUITE 100
 ELKRIDGE, MD 21075
 410-579-2442

ELECTION DISTRICT 6
 PLAT REF. 19555, 17/35, 24/99
 SCALE: 1" = 30'
 DRG NO.: SDP-20

HOWARD COUNTY, MD
 M 42 G 3, 9 P 375, 399
 MAY 8, 2008
 SHEET 25 OF 32

Drop Off Policy
 Contractor to maintain less than 2.5 in. of drop-off during periods of non-construction. Use appropriate standard. See General Note No: 13.



PHASE 1 - SEQUENCE OF OPERATION

1. INSTALL ADVANCE WARNING SIGNS AND SET TEMPORARY TRAFFIC CONTROL DEVICES AS SHOWN.
2. BEGIN EXCAVATING MEDIAN AS DESIGNATED IN WORK ZONE. CONTRACTOR TO RESTORE CONSTRUCTION AREA BACK TO EXISTING GRADE AT THE END OF THE WORK DAY.
3. INSTALL NEW CURB AND GUTTER. INSTALL ROADWAY BASE COURSE MATERIAL.
4. TEMPORARY TRAFFIC CONTROL SHALL REMAIN IN OPERATION UNTIL WORK AREA CAN BE MADE TRAFFIC BEARING.

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. 25547, Expiration Date: 9/23/08

KEY

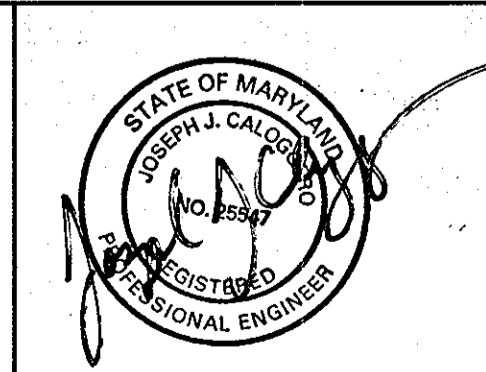
- Area of Construction
- Direction of Traffic
- Channelizing Device (Drum)
- Existing Traffic Signal
- Temp. Traffic Sign
- Existing Geometrics
- Proposed Geometrics

APPROVED
PLANNING BOARD
 of HOWARD COUNTY
 DATE 04/10/08

| BY | No. | REVISION | DATE |
|-----|-----|---|---------|
| LAI | 2 | ADDED BUILDINGS C/P, ADDED SHEETS 30-32 | 10/2017 |

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE 8/6/08
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE 8/8/08
 DIRECTOR



The Traffic Group, Inc.
 Suite H
 9900 Franklin Square Drive
 Baltimore, Maryland 21236
 410-931-6600
 1-800-583-8411
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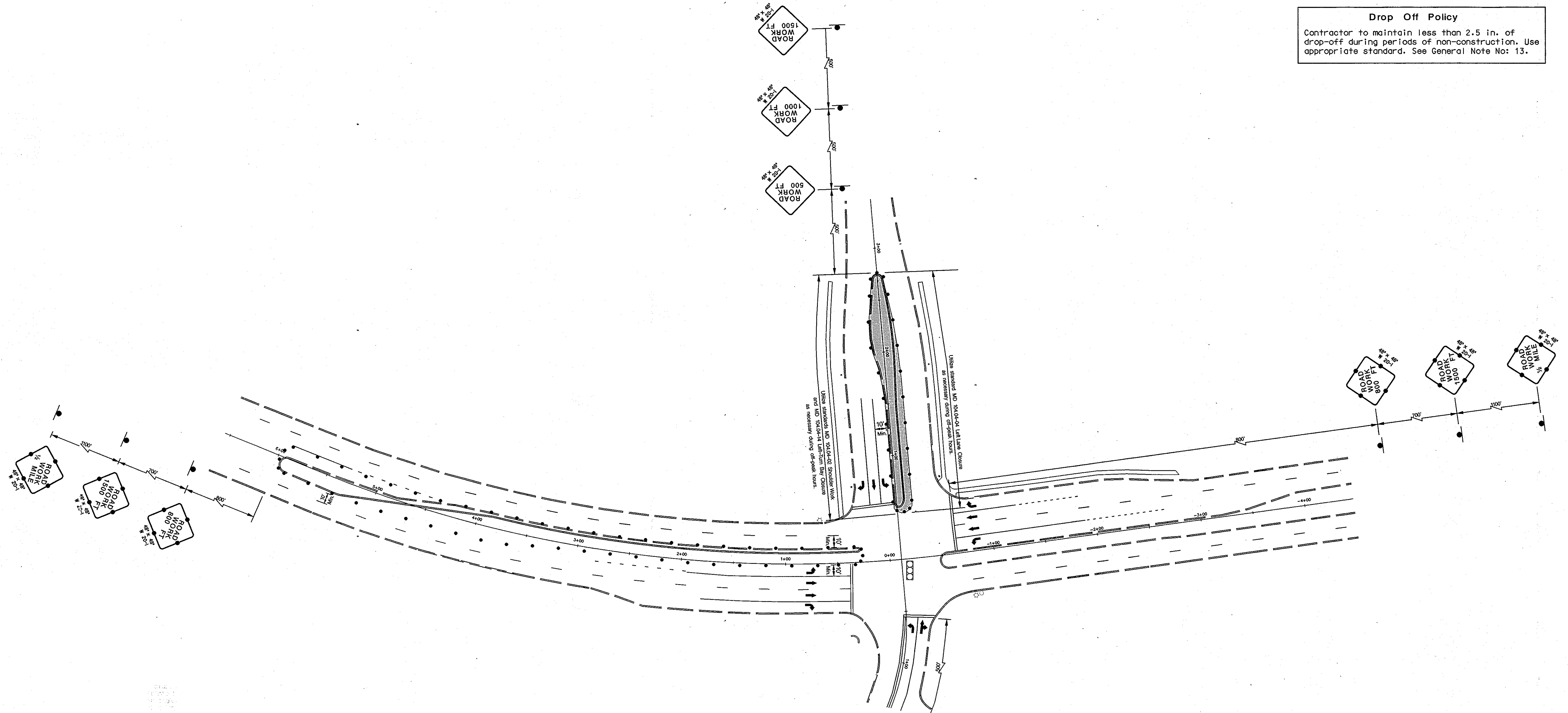
ROADS
 CARVED STONE
 REVISED SDP-07-078
MINSTREL CROSSING II
 CARVED STONE INTERSECTION
 MAINTENANCE OF TRAFFIC PHASE 1

ELECTION DISTRICT 6
 PLAT REF. 19555, 17/35, 24/99
 SCALE: 1" = 50'
 DRG NO.: SDP-20

HOWARD COUNTY, MD
 M 42 G 3, 9 P 375, 399
 MAY 8, 2008
 SHEET 26 OF 32



Drop Off Policy
 Contractor to maintain less than 2.5 in. of drop-off during periods of non-construction. Use appropriate standard. See General Note No: 13.



PHASE 2 - SEQUENCE OF OPERATION

1. INSTALL ADVANCE WARNING SIGNS AND SET TEMPORARY TRAFFIC CONTROL DEVICES AS SHOWN.
2. BEGIN EXCAVATING MEDIAN AS DESIGNATED IN WORK ZONE. CONTRACTOR TO RESTORE CONSTRUCTION AREA BACK TO EXISTING GRADE AT THE END OF THE WORK DAY.
3. INSTALL NEW CURB AND GUTTER. INSTALL ROADWAY BASE COURSE MATERIAL.
4. TEMPORARY TRAFFIC CONTROL SHALL REMAIN IN OPERATION UNTIL WORK AREA CAN BE MADE TRAFFIC BEARING.

KEY

- Area of Construction
- Direction of Traffic
- Channelizing Device (Drum)
- Existing Traffic Signal
- Temp. Traffic Sign
- Sign from Previous Phase
- Existing Geometrics
- Proposed Geometrics

APPROVED PLANNING BOARD of HOWARD COUNTY
 DATE 04/10/08

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. 29347, Expiration Date: 1/25/08

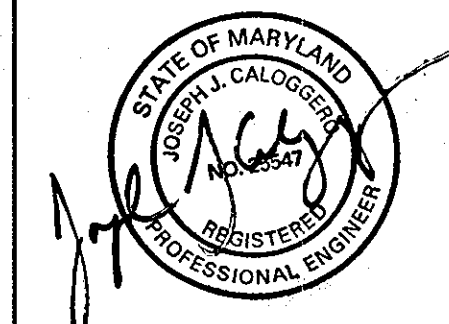
| L.A.I. | No. | REVISION | DATE |
|--------|-----|---|---------|
| 1 | 1 | ADDED BUILDINGS C/P, ADDED SHEETS 20-22 | 10/2012 |

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE 8/6/08

CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE 8/8/08

DIRECTOR



The Traffic Group, Inc.
 Suite H
 9900 Franklin Square Drive
 Baltimore, Maryland 21236
 410-931-6600
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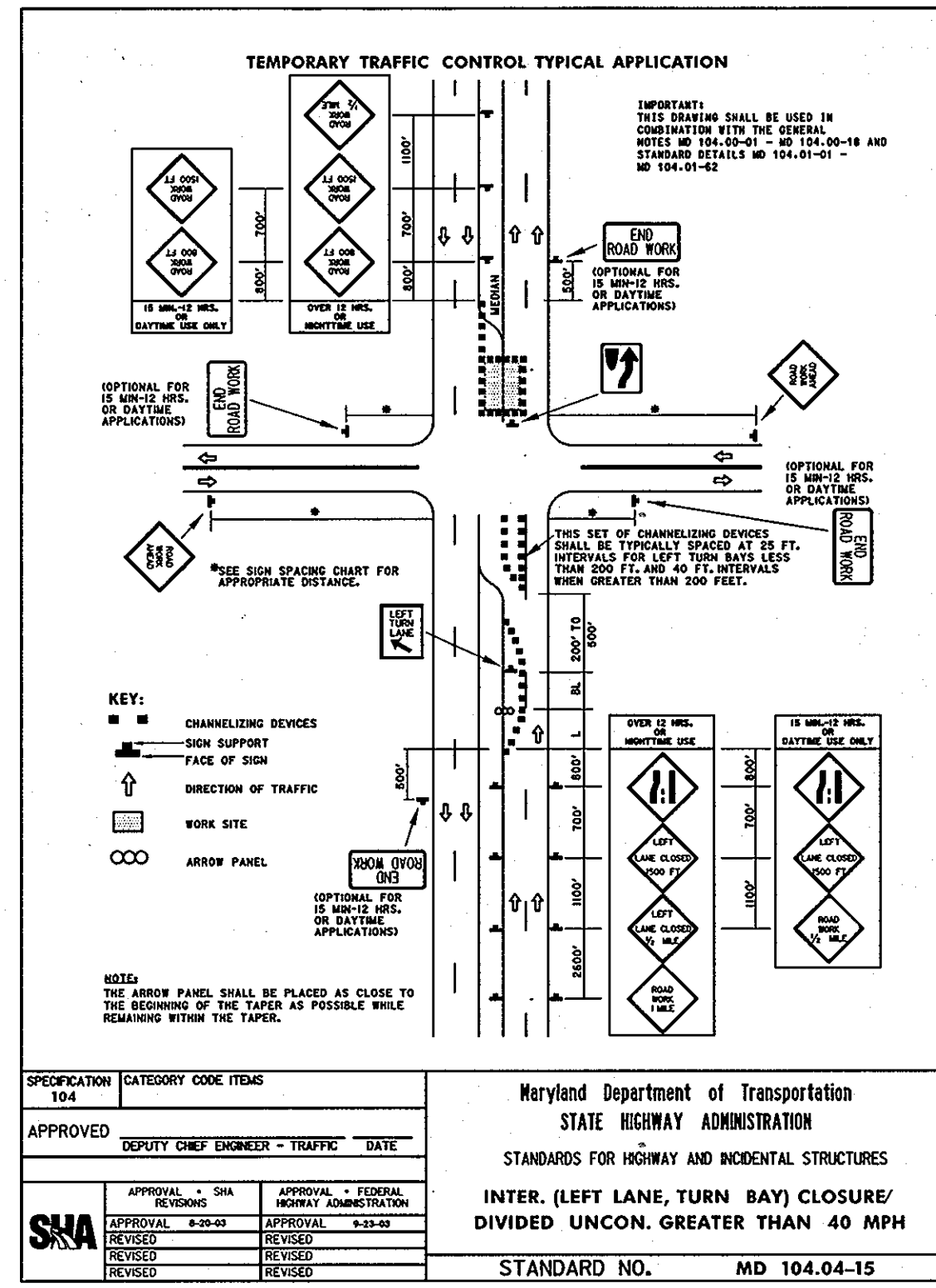
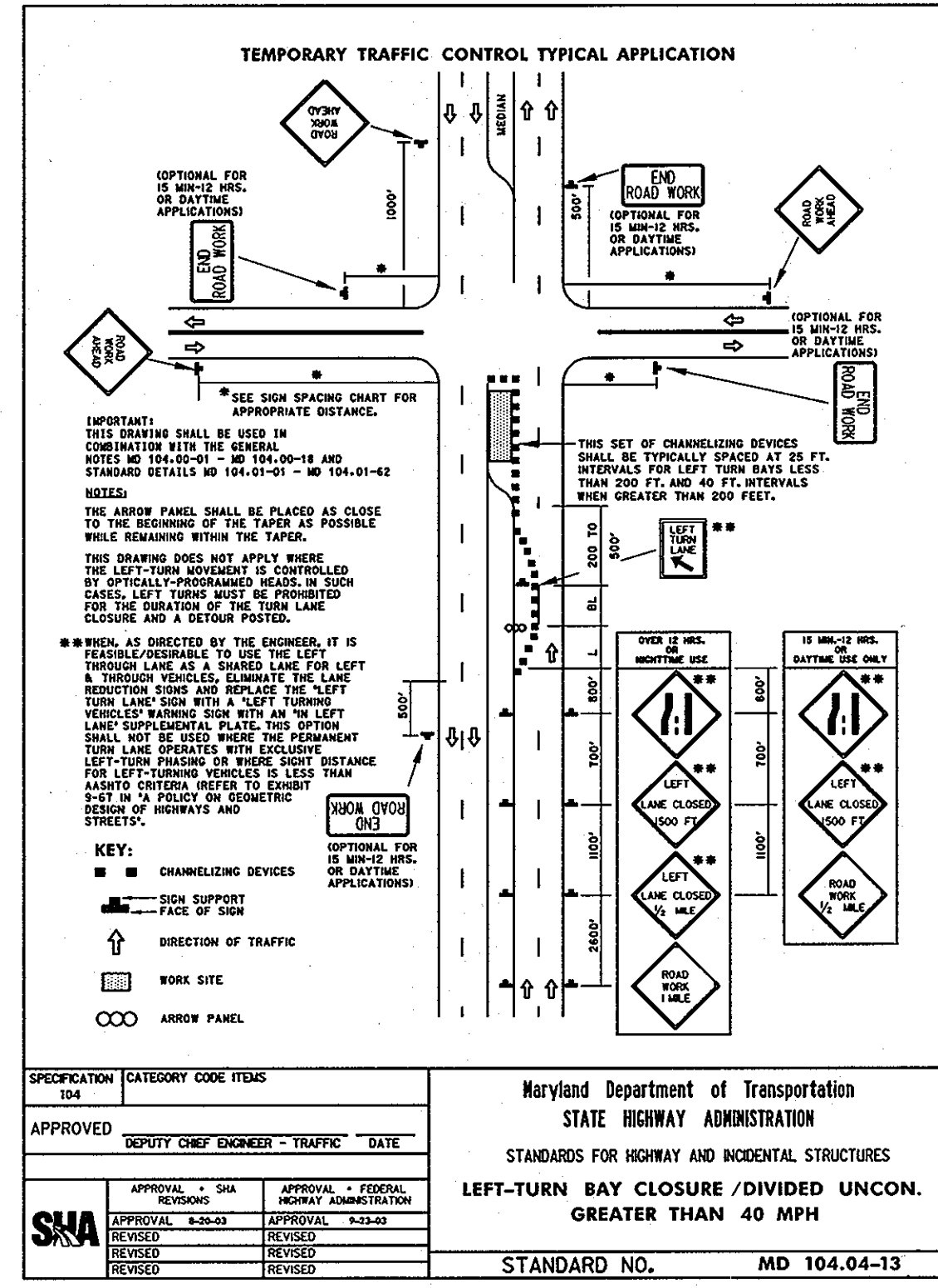
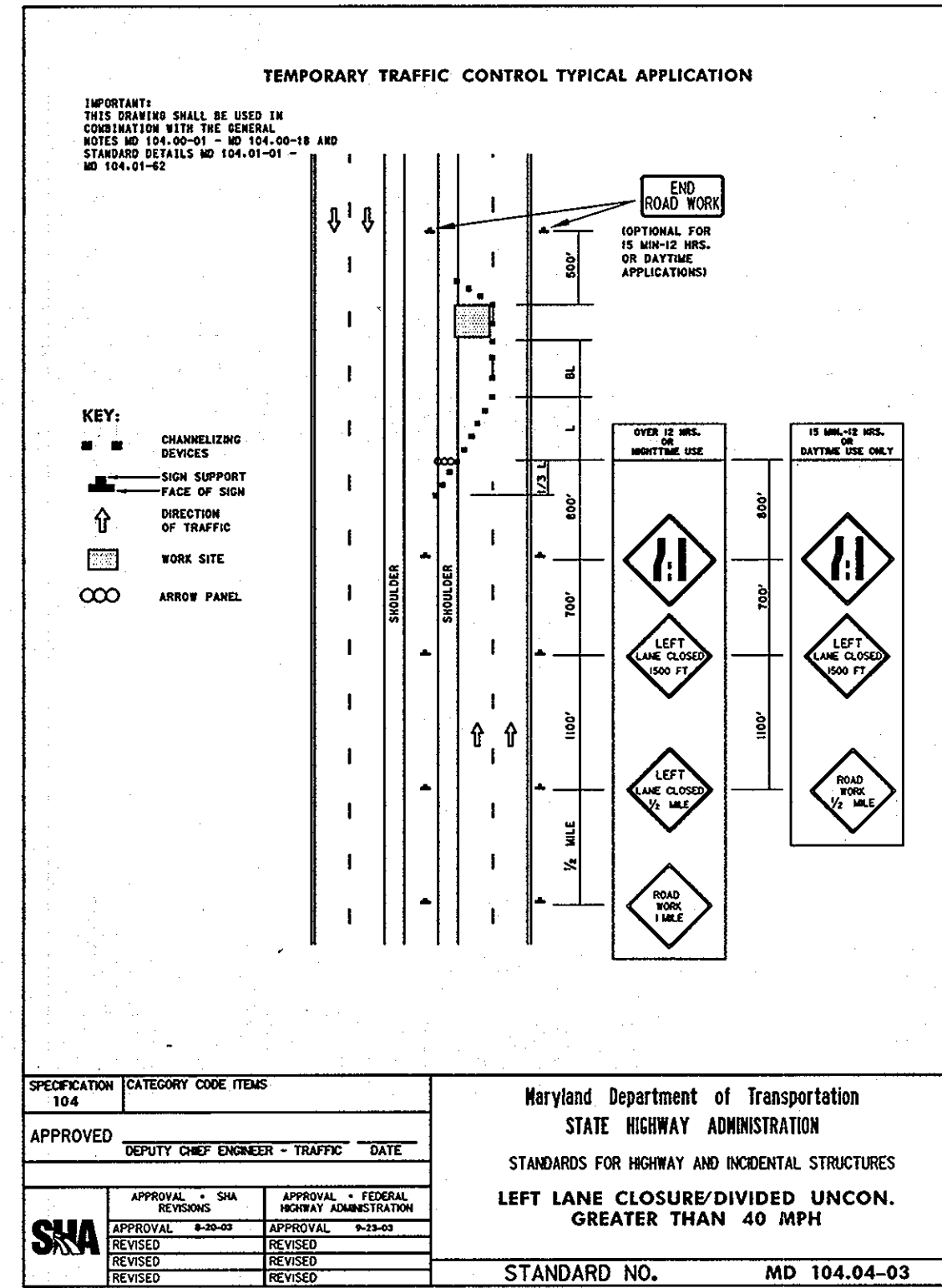
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 BETHESDA, MD 20814
 240-497-7032

DEVELOPER:
 H&H ROCK
 6800 DEERPATH ROAD
 SUITE 100
 ELKRIDGE, MD 21075
 410-579-2442

ROADS CARVED STONE
 REVISED SDP-07-078
MINSTREL CROSSING II
 CARVED STONE INTERSECTION
 MAINTENANCE OF TRAFFIC PHASE 2

ELECTION DISTRICT 6
 PLAT REF. 19555, 17/35, 24/99
 SCALE: 1" = 50'
 DRG NO.: SDP-20

HOWARD COUNTY, MD
 M 42 G 3, 9 P 375, 399
 MAY 8, 2008
 SHEET 27 OF 32



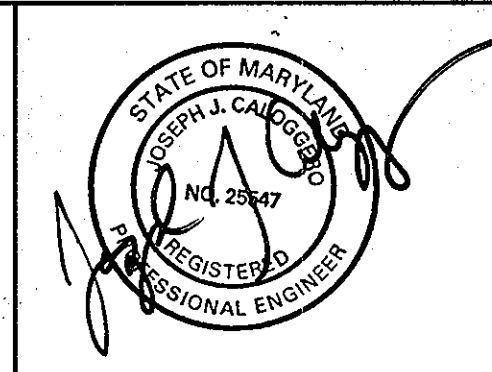
APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 04/10/08

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. 25547, Expiration Date: 7/25/08

| | | |
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| LA.I | ADDED BUILDINGS C/D, ADDED SHEETS 20-32 | 10/2012 |
| BY | REVISION | DATE |

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE 8/6/08
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE 8/8/08
DIRECTOR



The Traffic Group, Inc.
Suite H
9900 Franklin Square Drive
Baltimore, Maryland 21236
410-931-6600
1-800-583-8411
Fax 410-931-6601
"Merging Innovation and Excellence"

OWNER:
SNOWDEN ROCK, LLC; OTO ROCK, LLC; COLEMAN ROCK, LLC
TRANSITION ROCK, LLC; PILL ROCK, LLC
C/O OTO DEVELOPMENT
C/O H&H ROCK
6800 DEERPATH ROAD
ELKRIDGE, MD 21075
410-579-2442
961 E. MAIN STREET
SPARTANBURG, SC 29302
864-327-4035
CHEVY CHASE BANK, F.S.B.
7501 WISCONSIN AVENUE, 9TH FLR
BETHESDA, MD 20814
240-497-7032

DEVELOPER:
H&H ROCK
6800 DEERPATH ROAD
SUITE 100
ELKRIDGE, MD 21075
410-579-2442

ROADS
CARVED STONE
REVISED SDP-07-078
MINSTREL CROSSING II
CARVED STONE INTERSECTION
MAINTENANCE OF TRAFFIC TYPICALS
ELECTION DISTRICT 6
PLAT REF. 19555, 17/35, 24/99
SCALE: N/A
DRG NO.: SDP-20
HOWARD COUNTY, MD
M 42 G 3, 9 P 375, 399
MARCH 14, 2008
SHEET 28 OF 32

GENERAL NOTES
TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATIONS (TTCTA)

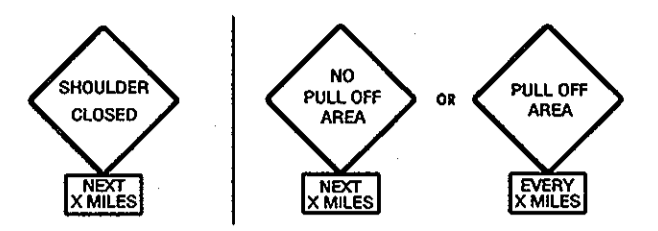
1.0 INTRODUCTION

- The General Notes (GN) supplement the Standard Details and the TTCTAs, and have been directed to provide additional direction on the installation and application of traffic control devices shown in these standards. The GNs also provide additional guidelines and other useful information that will facilitate the installation of appropriate temporary traffic controls. Users of these standards shall also comply with provisions of FHWA's Manual on Uniform Traffic Control Devices (MUTCD) and SHA's Supplement to the MUTCD, Standard Specifications for Construction and Materials, and General Provisions for Construction Contracts.
- The TTCTA show the minimum requirements necessary to plan for the safety of workers, motorists, pedestrians, and other system users throughout the temporary traffic control zone for various types of work activities. Typically, more traffic control devices are required for long-term stationary work activities than for short-term stationary work activities. Additional temporary traffic control devices may be necessary because of other traffic factors, such as the roadway's accident history, expected traffic backups, high truck traffic, roadway geometrics or characteristics, and other conditions that may adversely affect the flow of traffic. Users of these TTCTA should review the temporary traffic control setup once in place to ensure that traffic is traveling smoothly throughout the traffic control zone, driver expectancy is being met, and no other adjustments to the temporary traffic control devices are necessary. This review is to be repeated on a regular basis as noted elsewhere.
- The TTCTA address a wide variety of different conditions; however, every situation could not be shown. Therefore, charts have been provided showing standard devices to be used for the proposed work zone activity and the placement of these devices for certain roadway conditions and work durations. The user is expected to combine the information from these charts into a workable traffic control plan.
- In applying these standards and guidelines, questions about applications and interpretations should be referred to the State Highway Administration's Assistant District Engineer-Traffic, County Traffic Engineer, City Traffic Engineer, Public Works Engineer, or other responsible party, who has expertise in traffic engineering and has jurisdiction on the appropriate roadways. Such consultation may be required, for example, to determine the appropriate TTCTA for the work zone condition.

4.0 SIGNS

- Signs should be spaced at the distances shown on the TTCTA diagrams.
- See the 'Sign and Buffer Spacing Charts/Standard Temporary Traffic Control Operations' for the appropriate spacing of the advance warning signs for lower speed highway facilities.
- At locations where queues extend beyond the first advance warning sign, additional advance warning signs (traffic and/or PCMS) shall be placed in advance of the longest observed queue.
- When bus and/or truck volumes are high, an initial advance warning sign may be placed on the left side of a multi-lane undivided roadway.
- As of December 31, 2003, Fluorescent Orange High Performance Wide Angle (FHPWA) Retroreflective Sign Sheeting material shall be used on all temporary post-mounted warning signs erected in work zones.
- FHPWA Retroreflective Sign Sheeting material may be used for maintenance work along freeways and major expressways at the discretion of the Engineer.
- Approved temporary roll-up signs may be used for maintenance work along all roadways.
- When work zone speed limits along 65 and 60 mph roadways are reduced, temporary regulatory speed signing shall be posted for work activities of one-hour duration or longer, unless otherwise directed by the Engineer. These signs are to be placed as directed in Standard Nos. MD 104.01-06 and MD 104.01-07.
- Sign designations and messages for the signs most commonly used in work zones are shown within these General Notes. See Specification 104.08-03 for information on other temporary traffic signs.
- 695-4 (Hot and Shovel) signs shall be used for projects lasting greater than two months in duration, unless otherwise specified by the Engineer.
- Along streets in urban areas where the prevailing speed is 35 mph or less, and along secondary roads where the Average Daily Traffic (ADT) is less than 1000 vehicles, the minimum sign size of 36" x 36" may be used.
- For utility operations, the word 'AHEAD' may be used on warning signs in lieu of distance messages for warning signs placed up to and including 1500 feet in advance of the work area. At greater distances, the correct distance messages shall be used on such warning signs. Also, the message UTILITY WORK may be used in lieu of ROAD WORK or SHOULDER WORK. ROAD WORK AHEAD signs may also be used in lieu of distance messages on side streets and entrance ramps that intersect roads where work is being performed (as shown in the Typical Applications) and on the main road during mobile and moving operations.
- ROAD WORK AHEAD signs shall be installed on all side streets and entrance ramps that intersect roads within work zones. The signing shall be placed along the intersection approach to the right of the travel lane. Refer to Standard Detail 104.01-02 for guidance on sign placement. For side streets intersecting roads outside of work zone boundaries, no advance signing should be installed.
- Warning signs mounted on wood posts, and those mounted on approved portable supports, shall be mounted in conformance with Standard No. MD 104.01-17. Signs mounted on concrete barrier shall be installed using clamps that are on the Office of Traffic & Safety's Approved Product List.
- For shoulder closures greater than a half (1/2) mile in length, advance warning signs should be placed as follows:
 - A NEXT XX MILES supplemental plate should be provided with the first SHOULDER CLOSED sign in the sequence
 - The second SHOULDER CLOSED sign in the sequence should be replaced with either:
 - A NO PULL OFF AREA warning sign with NEXT XX MILES supplemental plate, if there are no pull off areas throughout the work area, or
 - A PULL OFF AREA warning sign with EVERY XX MILES supplemental plate, if pull off areas are provided (see MD 104.06-14).

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.



- A BUMP sign should be placed when there is a temporary pavement wedge along a transverse joint, a transverse construction trench with temporary backfill, or a similar transverse disturbance. Signs should be placed according to Shoulder Work Typical Applications for the appropriate prevailing speed and work duration, with BUMP signs replacing the SHOULDER WORK signs.
- TRUCK CROSSING (W11-101) signs shall only be used during the following two situations:
 - A work area entrance is allowed along a controlled access highway.
 - A work area entrance is provided along highways other than controlled access, the entrance does not have adequate decision sight distance for approaching traffic, and the entrance cannot be relocated to provide adequate decision sight distance. Refer to Standard No. MD 104.00-03 of the General Notes for decision sight distance criteria.



5.0 PORTABLE VARIABLE MESSAGE SIGNS (PVMS)

- The PVMS shall not replace standard traffic control devices, but is to supplement these devices.
- PVMS shall be used where a new traffic signal has been installed along State routes having a prevailing speed of 50 mph or greater.
- PVMS shall display a message regarding new traffic signal installation up to 3 days prior to signal turn on. PVMS shall be removed no later than 7 days after the signal is operational.
- When PVMS are used to advise/warn motorists regarding a new traffic signal installation, they shall be installed along all the major approaches to the intersection, and shall be used in such a way as to supplement the standard traffic control devices required for a new traffic signal installation.
- No more than two displays shall be used within any message cycle unless approved by the District Engineer or ADE-T.
- For a list of standard messages/abbreviations, contact appropriate District Engineer or ADE-T. All customized messages shall be approved by the ADE-T.
- A single message shall be displayed for 2-3 seconds with an 'off' interval of 0.5 to 1.0 second. When two messages comprise a message cycle, neither message shall exceed 2 seconds duration. The second message shall follow the first message immediately without any 'off' interval. If an off-interval is used between the first and second messages, it shall not exceed 0.5 second.
- The text of the message shall not scroll or travel (horizontally or vertically) across the face of the sign.
- A PVMS should not be used for more than 14 continuous days as part of the same application. A PVMS should be used 3 to 5 days in advance of planned roadwork, if needed.
- PVMS should be used if there is significant change in traffic patterns, unexpected road conditions, or safety concerns that may result in delays/queues and may require caution/diversion.
- PVMS should not be used in place of an arrow panel. The PVMS should be visible from 0.5 mile under day and night conditions and should be legible from a minimum distance of 650 feet.
- PVMS should be placed on the shoulder of the roadway or, if practical, farther from the traveled lane (Standard MD 104.01-22).
- In order to reduce the effect of sun behind the PVMS, the PVMS should be placed so that the sun is not directly behind it (such as during sunrise or sunset).
- The entire message should be readable at least twice at the off-peak 85th-percentile speed prior to work starting or the anticipated prevailing speed.

6.0 ARROW PANELS

- Arrow panels that are installed along roadways with prevailing speeds greater than 40 mph shall be provided with a minimum shoulder closure taper of 1/3 the taper length, (see 7.0 Channelizing Devices). For all other roadways a 100-foot minimum shoulder closure taper shall be used.

7.0 CHANNELIZING DEVICES

- Taper Formulas:
 - $L = WS$ for speeds greater than (>) 40 mph
 - $L = WS / 60$ for speeds equal to or less than (<) 40 mph

Where: L = minimum length of taper (ft)
S = numerical value of prevailing travel speed or speed limit (MPH), whichever is higher, prior to work starting,
W = width of offset (ft)
- Maximum spacing between channelizing devices:
 - Taper Channelization: equal in feet to the posted speed limit.
 - Tangent Channelization: equal in feet to twice the posted speed limit.
- At horizontal or vertical curves, channelizing devices should be extended to a point where they are visible to approaching traffic. On two-lane, two-way roadways, a full taper length shall always be provided in advance of curves.
- Drums, not cones, should always be used to form the taper on roadways having a prevailing travel speed greater than 40 MPH.

- Starting channelizing devices within 30 feet of the edge of open section roadway or 15 feet of a closed section roadway along any roadway is prohibited without approval of the Engineer.
- Type 3 object markers (VP-1) are required for barrier flare / tangent points.
- The appropriate channelizing devices (including approved barrier) to separate opposing traffic shall be as shown on the plans or as directed by the Engineer.
- On straight sections of roadway with full dimension center and / or lane lines, but without edge lines, channelizing drums shall be used to delineate the edge of the roadway, except at locations designated by the Engineer. Examples would include roadways with curbs, parking, bicycle lanes, or other markings. The channelizing drums may be spaced up to 500' apart where no undue hazards exist unless otherwise directed by the Engineer. On curves, these spacings shall be reduced to a value equal to the posted speed limit, unless otherwise directed by the Engineer.

8.0 PAVEMENT MARKINGS

- Temporary pavement markings should be installed according to Section 104.02-03(F), Specific Requirements for Temporary Pavement Markings, from the Standard Specifications for Construction and Materials and from SHA's 'Pavement Marking Policy and Guidelines' issued by OOTS.
- Pavement markings that are no longer applicable shall be completely removed or obliterated. Temporary markings shall be used as necessary. Operations less than 12 hours or undertaken during the daytime may require that the permanent markings be temporarily covered with black tape as specified in Section 8.3.
- Pavement marking lines adjacent to any long duration lane transition or lane closure taper shall be removed (or covered with SHA approved black pavement marking tape), unless otherwise directed by the Engineer. Pavement marking lines shall be re-installed (or uncovered) prior to re-opening the closed lanes.
- Temporary markings on intermediate pavement surfaces (e.g. base course) shall be placed to full dimensions per the Contract Documents (i.e. continuous double yellow center lines, single dashed yellow center line & 10' segments, 30' gaps where passing is allowed, lane lines @ 10' segments, 30' gaps).
- Guidance on UNMARKED PAVEMENT signing:
 - Daytime: If the pavement is not marked to SHA's standards/specifications during the daytime, no sign is needed, provided item #3 below is adhered to.
 - Nighttime: If, due to unforeseen circumstances as determined by the Engineer, the pavement is left in a condition overnight that does not meet SHA pavement marking standards/specifications, then UNMARKED PAVEMENT signing shall be used.
 - In all instances where less than standard markings are in place (permanent or short-term), appropriate channelizing devices and other traffic control devices shall be used to guide traffic through the work zone in an effective, safe, and positive manner.

9.0 FLAGGING

- Where two or more flaggers are used and are unable to see each other, two-way radio communications shall be used.
- If the entire work area is visible from one station, a single flagger may be used, subject to other safety considerations.
- Guidance on flagging at signalized intersections:
 - Issues regarding flagging at signalized intersections should be discussed in the planning/design stages of the project and the recommended intersection control strategy should be specified in the contract documents.
 - At the pre-construction conference, SHA staff and the contractor should discuss the need for flagging operations, MSP (or local police) presence, and the Standard Operating Procedures to request signal operating mode modifications (if needed).
 - In general, all persons (contractors, maintenance, and utility) should contact the Assistant District Engineer - Traffic (ADE-T) to determine the best method for temporary traffic control at a signalized intersection from the following two (2) cases:
 - Case 1: The signal is turned to flashing mode during flagging operation.
 - Case 2: The signal is turned off (dark mode) during flagging operation.

Note: Except for police, flagging shall not occur at a signalized intersection operating in a full-color stop-and-go mode (Normal Operation).

10.0 VEHICLES

- If work vehicles need to be stopped in a lane beyond a horizontal curve or a vertical curve (hill), nonessential vehicles are to be pulled as far off the road as possible or be otherwise parked in a manner as to inhibit the movement of traffic as little as possible. If no protection vehicle is available, channelizing devices shall be placed as specified in 7.0, Channelizing Devices.
 - Work vehicles should not occupy any part of the buffer area.
 - Vehicle safety lights (amber in color) shall be from the Office of Traffic & Safety's Approved Products List.
 - A protection vehicle with a rear truck-mounted-attenuator (TMA) is required for all freeway work operations that have no formal lane closure. A formal lane closure is one that includes a full complement of advance warning devices and a lane closure taper and a work area delineated by channelizing devices placed in accordance with these TTCTAs.
- A protection vehicle is also required for highway marking operations and may be required under other traffic and work conditions in conformance with SHA policy or as directed by the Engineer. The protection vehicle may be considered as a substitute for the initial advance warning sign for some mobile work operations. A protection vehicle should also be used in advance of a work operation that is located beyond a horizontal and/or vertical curve.

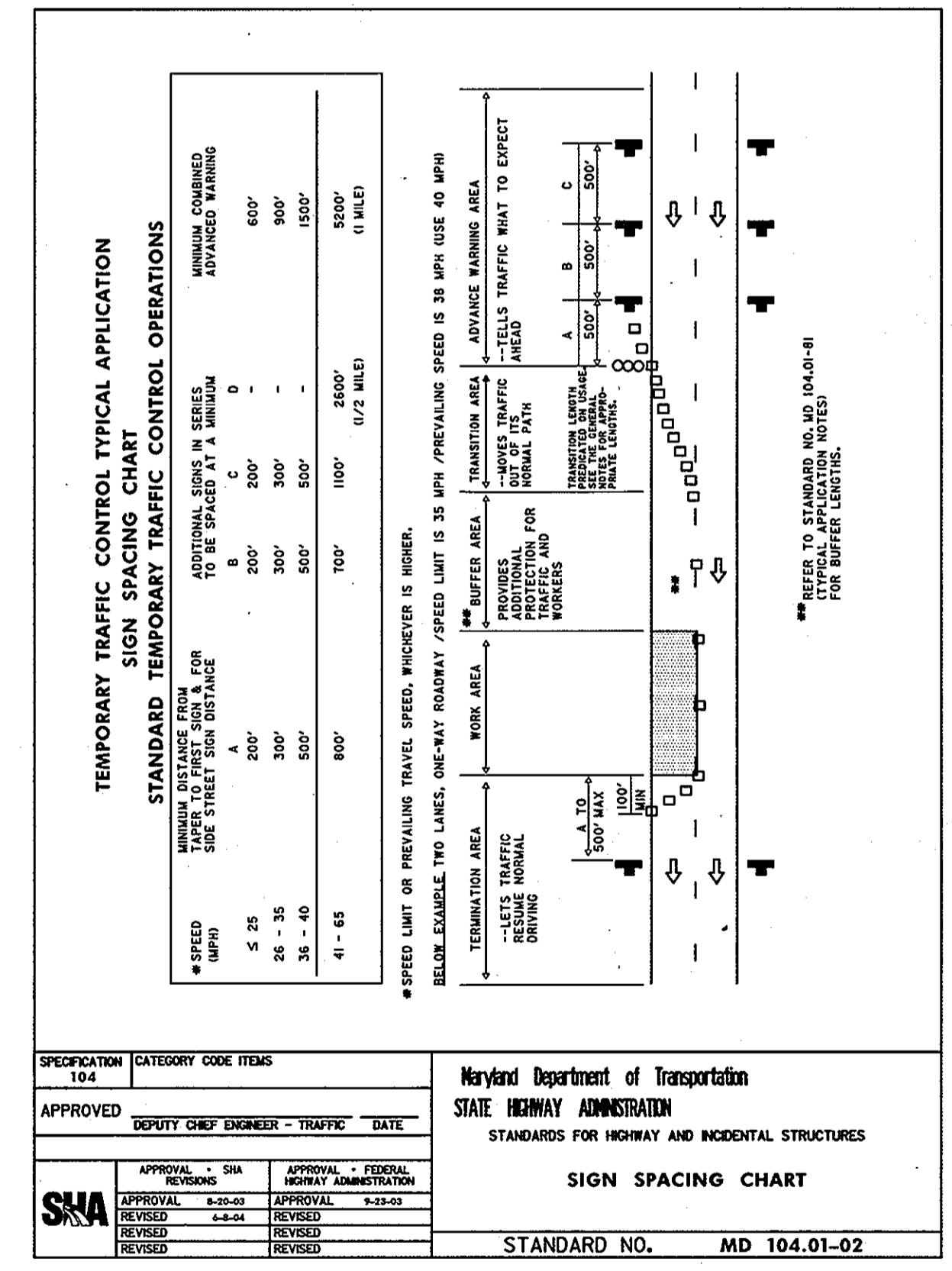
- (Cont.) Consideration should also be given to placing an additional temporary advance warning sign(s) or truck mounted variable message sign no less than 500' and no more than 1500' (1/2 mile for expressway conditions) in advance of the protection vehicle, when one or more of the traffic factors listed under General Notes 1.2 exist.
- When a police vehicle is required, the vehicle shall not be located in the buffer and/or taper, but should be located as directed by the Engineer, depending on the type of work. It is sometimes preferable to deploy the police vehicle in advance of the work zone or queue (if queue exists) to encourage speed reduction prior to the work zone.
- 11.0 WORK HOUR RESTRICTIONS**
 - Unless otherwise specified in the Contract Document or permitted by the Engineer, work within a lane, within 15 feet of the nearest edge line (open section roadway), or within 2 feet of the face of curb (closed section roadway), is prohibited during peak hours 6 a.m. - 9 a.m. and 3 p.m. - 7 p.m., Monday - Friday. Also, such work is not permitted on Saturdays, Sundays, National or State holidays, or days preceding and following said holidays.

13.0 PAVEMENT DROP-OFF

- When pavement drop-offs are present, the placement of temporary traffic control devices, including signs, channelizing devices, and barriers, as well as slope filler wedges, shall follow SHA Standard Nos. MD 104.06-11, MD 104.06-12, MD 104.06-13, MD 104.06-14, MD 104.06-15, and MD 104.01-28. The Engineer may recommend alternative methods to protect the pavement edge drop-off, considering factors such as: pedestrian, bicycle, and traffic volumes, vehicle speeds, size of work zone, duration of work, etc.

18.0 TRAFFIC CONTROL PLANS

- Alternate traffic control plans may be presented to the SHA District Office for approval in conformance with Section 104.01 of the Standard Specifications for Construction and Materials.
- For emergency repair operations, a lesser number of traffic control devices (TCDs) than the full complement may be used. This generally will consist of one sign per direction, flashing lights on the vehicle, and minimum number of channelizing devices, cones, or high level warning devices. Additional TCDs such as arrow panel(s), additional signing, etc., shall be placed as soon as possible in accordance with the standard TTCTA.
- Where closely spaced work zones create conflicting traffic patterns (e.g. left-lane closure followed by right-lane closure), they should be no closer than 1.5 miles apart (last sign to first sign). Where work zones are closely spaced, but where traffic patterns are not significantly altered and no conflicts exist, no minimum spacing is required; however, care should be exercised to present appropriate and non-conflicting guidance to the public.
- All signs, channelizing devices, and other traffic control devices shall be in conformance with the latest edition of the MUTCD.



APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE **04/10/08**

ROADS
CARVED STONE
REVISED **SDP-07-078**

MINSTREL CROSSING II
CARVED STONE INTERSECTION
MAINTENANCE OF TRAFFIC TYPICALS

ELECTION DISTRICT 6
PLAT REF. 19555, 17/35, 24/99
SCALE: N/A
DRG NO.: SDP-20

HOWARD COUNTY, MD
M 42 G 3, 9 P 375, 399
MARCH 14, 2008
SHEET 29 OF 32

BY: JStorck

APPROVED: DEPARTMENT OF PLANNING AND ZONING License No. 25547, Expiration Date: 1/25/09

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 8/10/08

CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 8/8/08

DIRECTOR
DATE: 8/8/08

Professional Engineer
STATE OF MARYLAND
JAMES J. CALDWELL
No. 25547
Professional Engineer

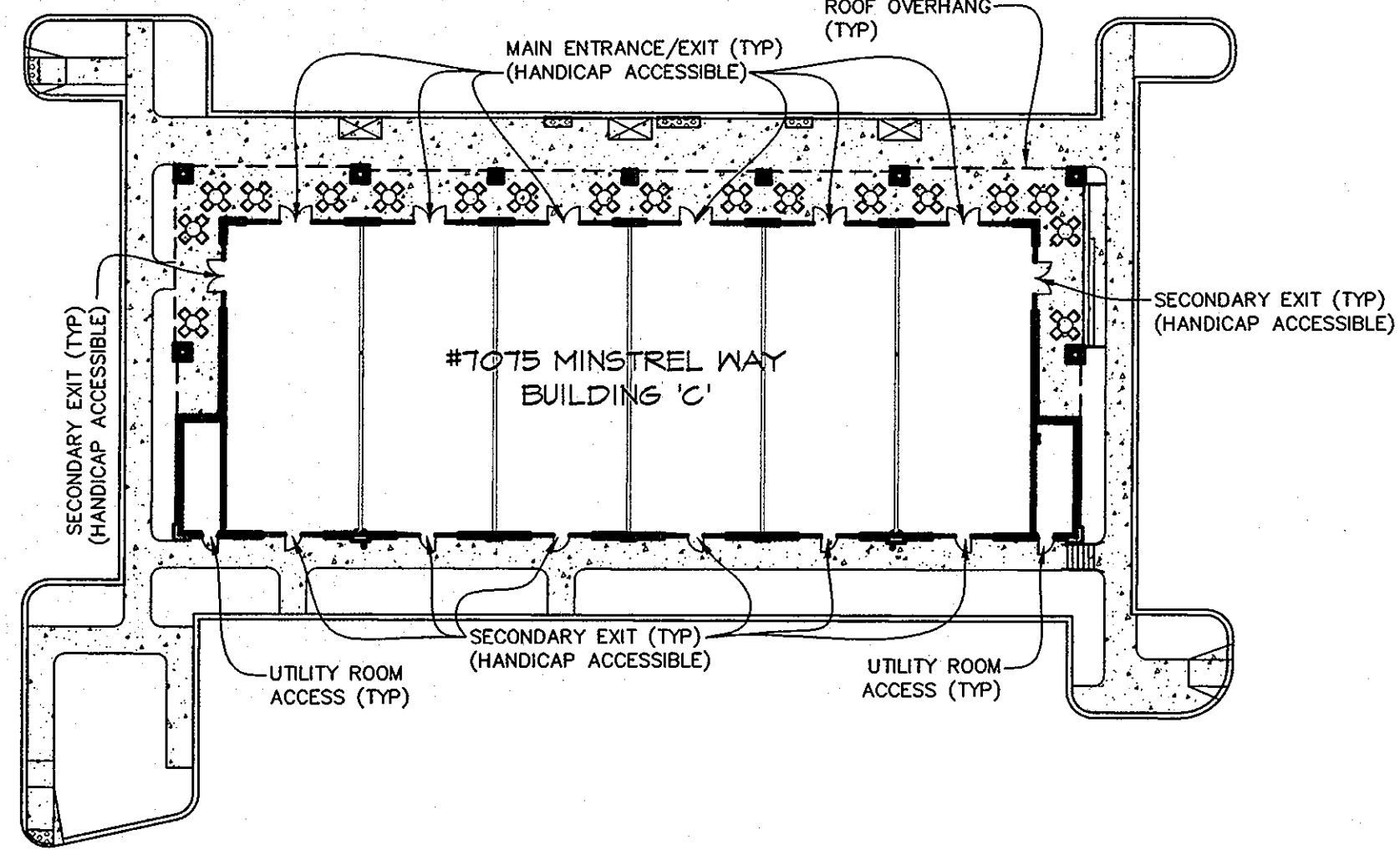
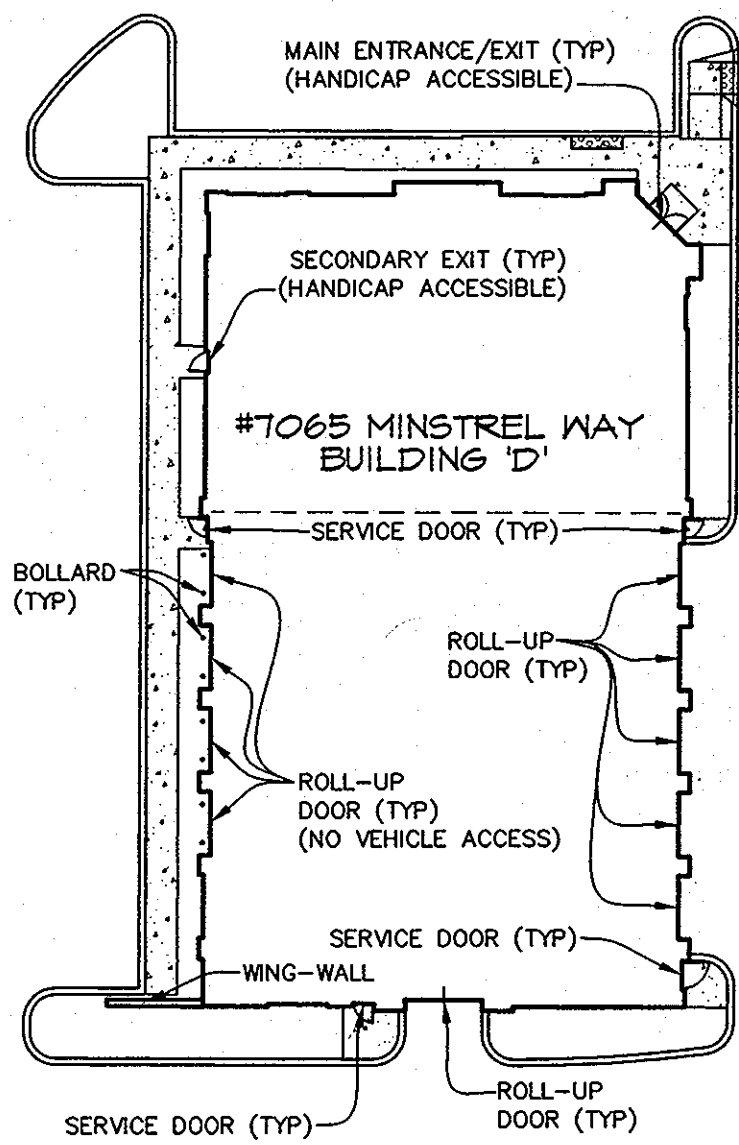
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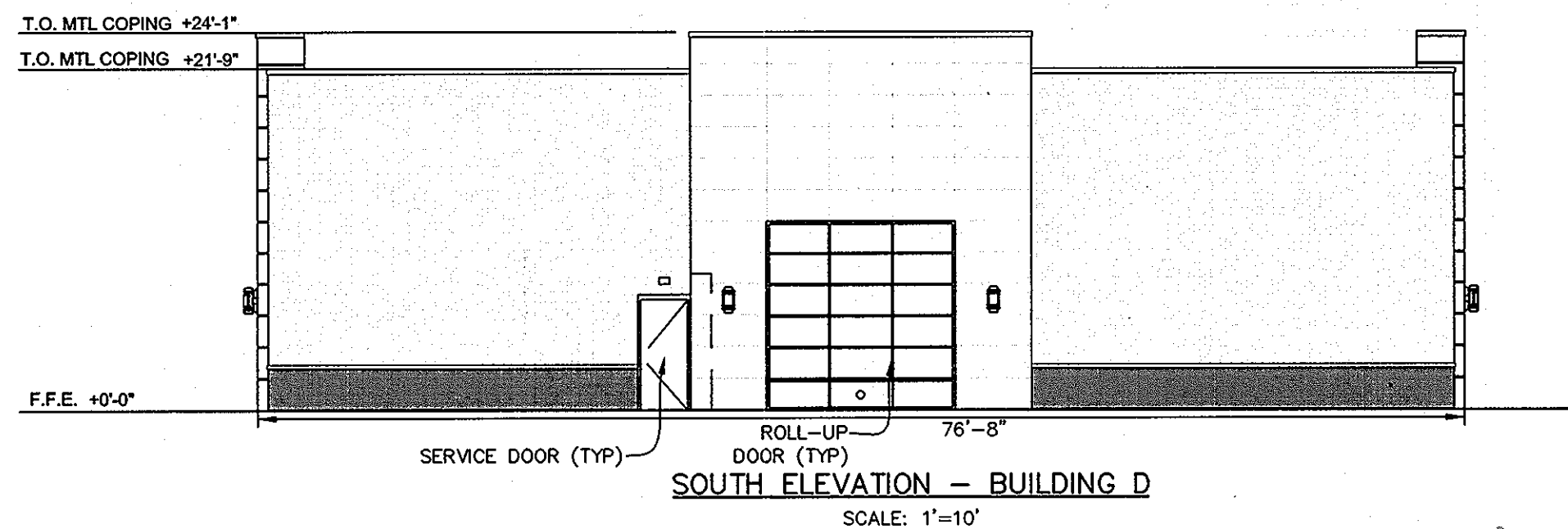
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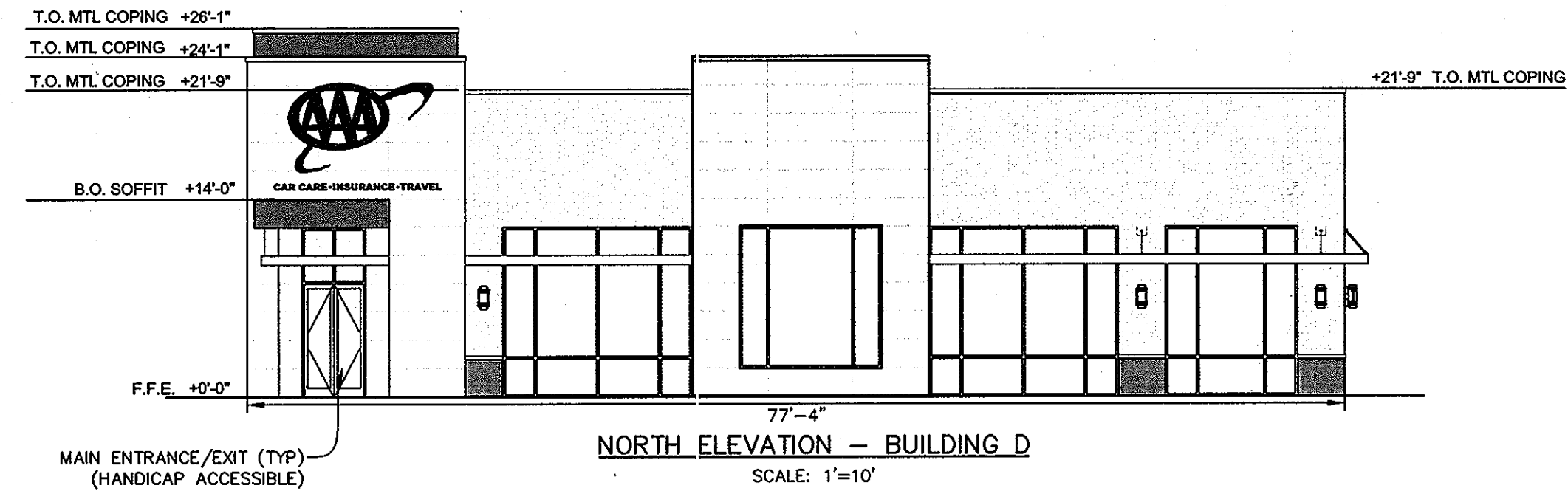
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES
SIGN SPACING CHART
STANDARD NO. MD 104.01-02



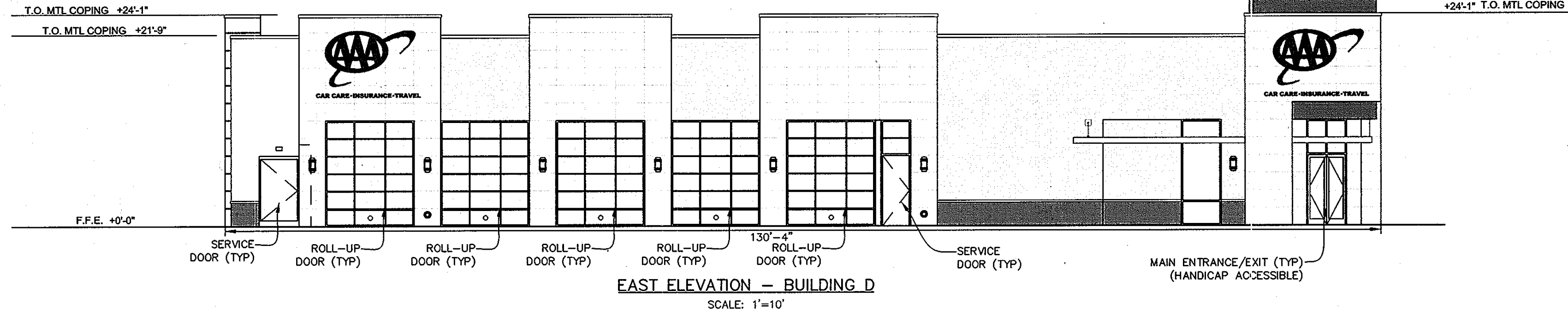
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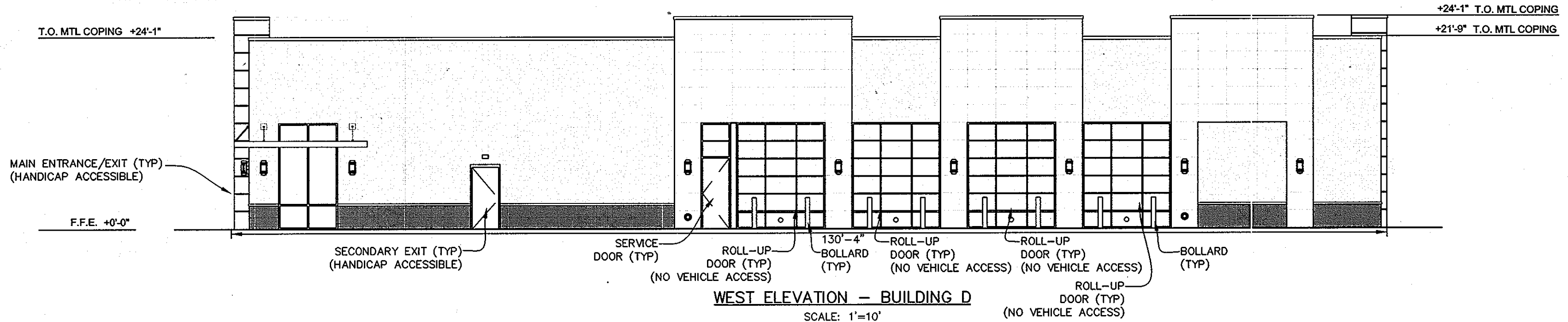
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NORTH ELEVATION - BUILDING D
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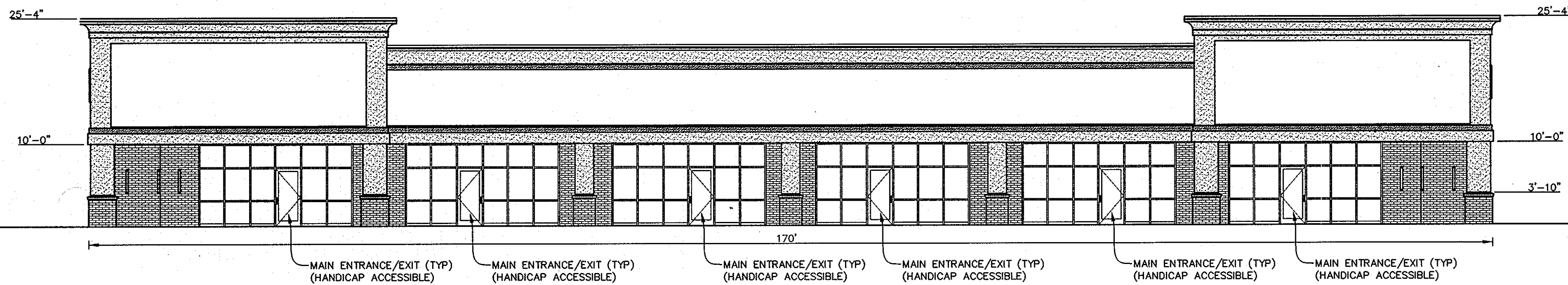


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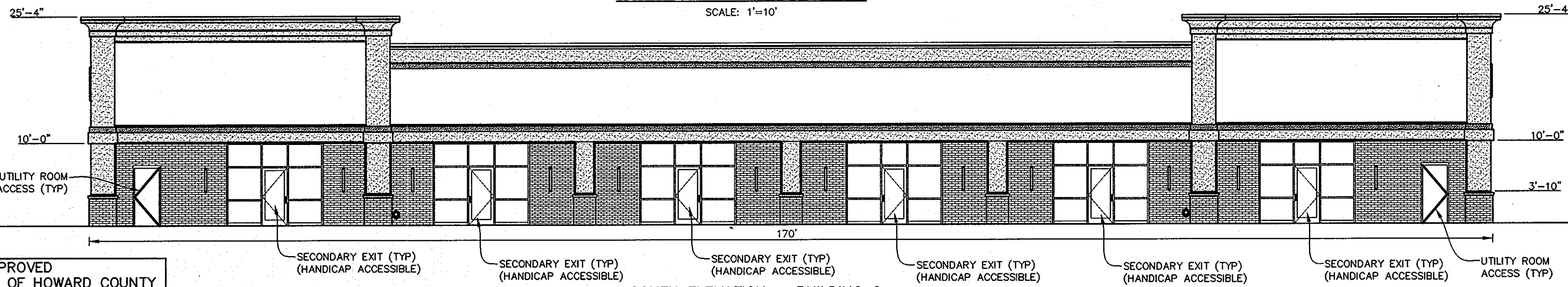


WEST ELEVATION - BUILDING D
SCALE: 1"=10'

PROPOSED BUILDING ELEVATIONS - BUILDING D

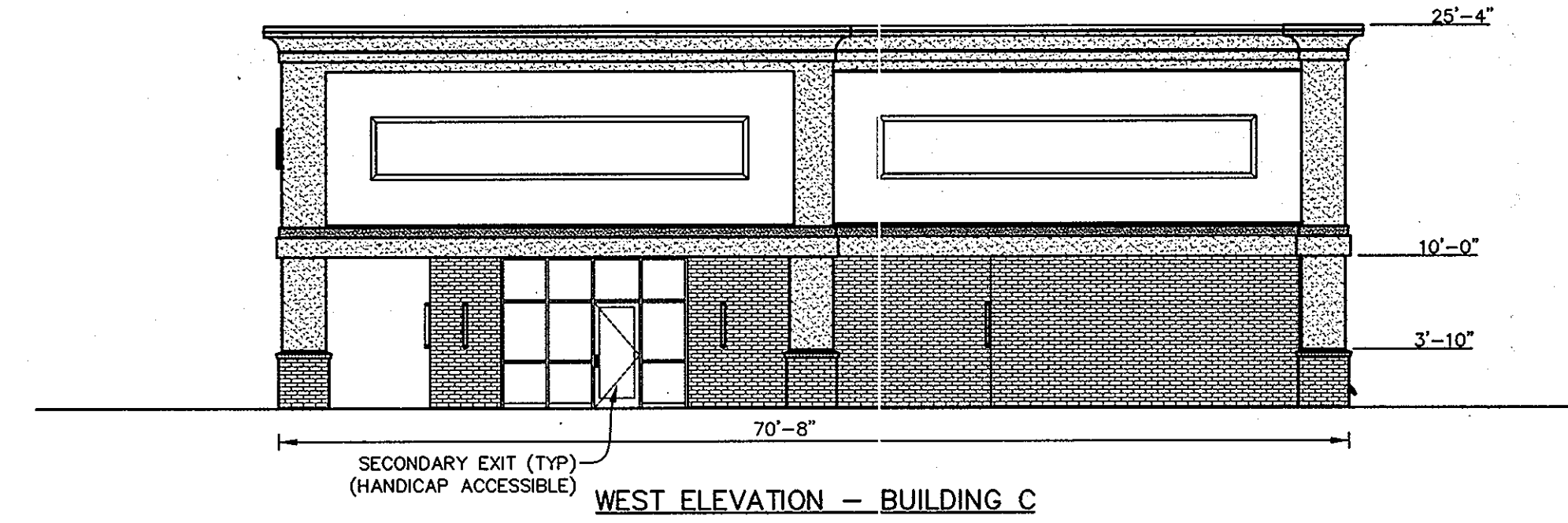


NORTH ELEVATION - BUILDING C
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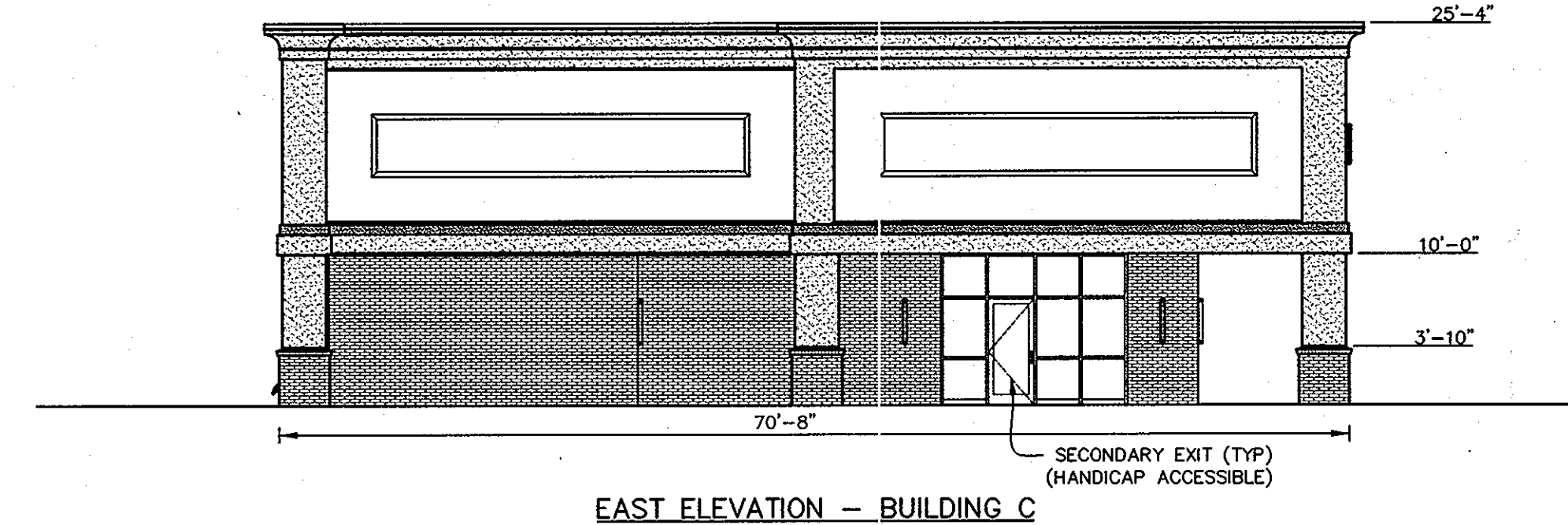


SOUTH ELEVATION - BUILDING C
SCALE: 1"=10'

PROPOSED BUILDING ELEVATIONS - BUILDING C



WEST ELEVATION - BUILDING C
SCALE: 1"=10'



EAST ELEVATION - BUILDING C
SCALE: 1"=10'

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: 04/10/2009, 05/24/2012

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. 16019, EXPIRATION DATE 5/8/2014.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
DIRECTOR



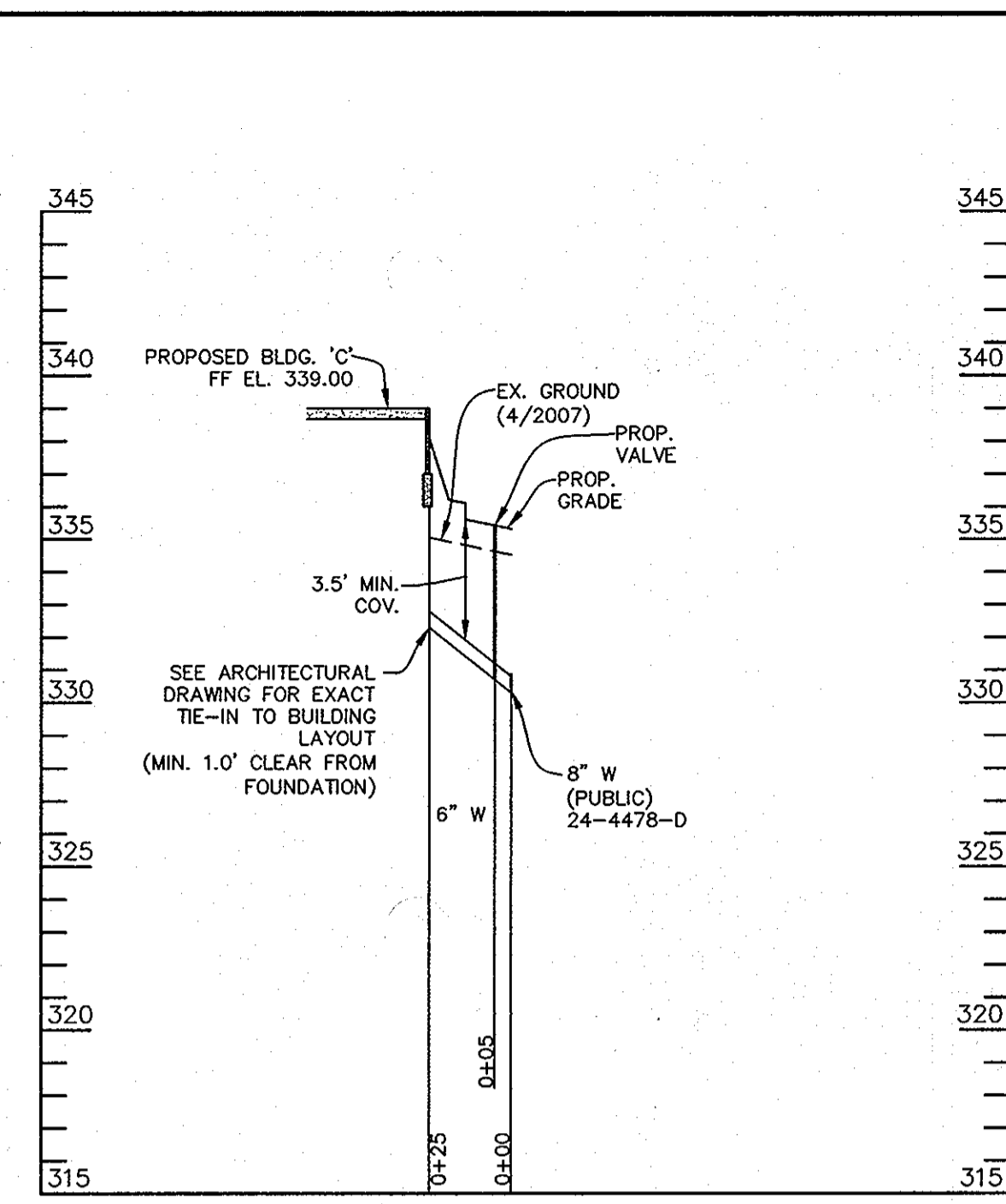
LITTLE & ASSOCIATES, INC.
ENGINEERS~LAND PLANNERS~SURVEYORS
1055 TAYLOR AVENUE, SUITE 307
TOWSON, MARYLAND 21286
PHONE: (410)296-1636 FAX: (410)296-1639

OWNER:
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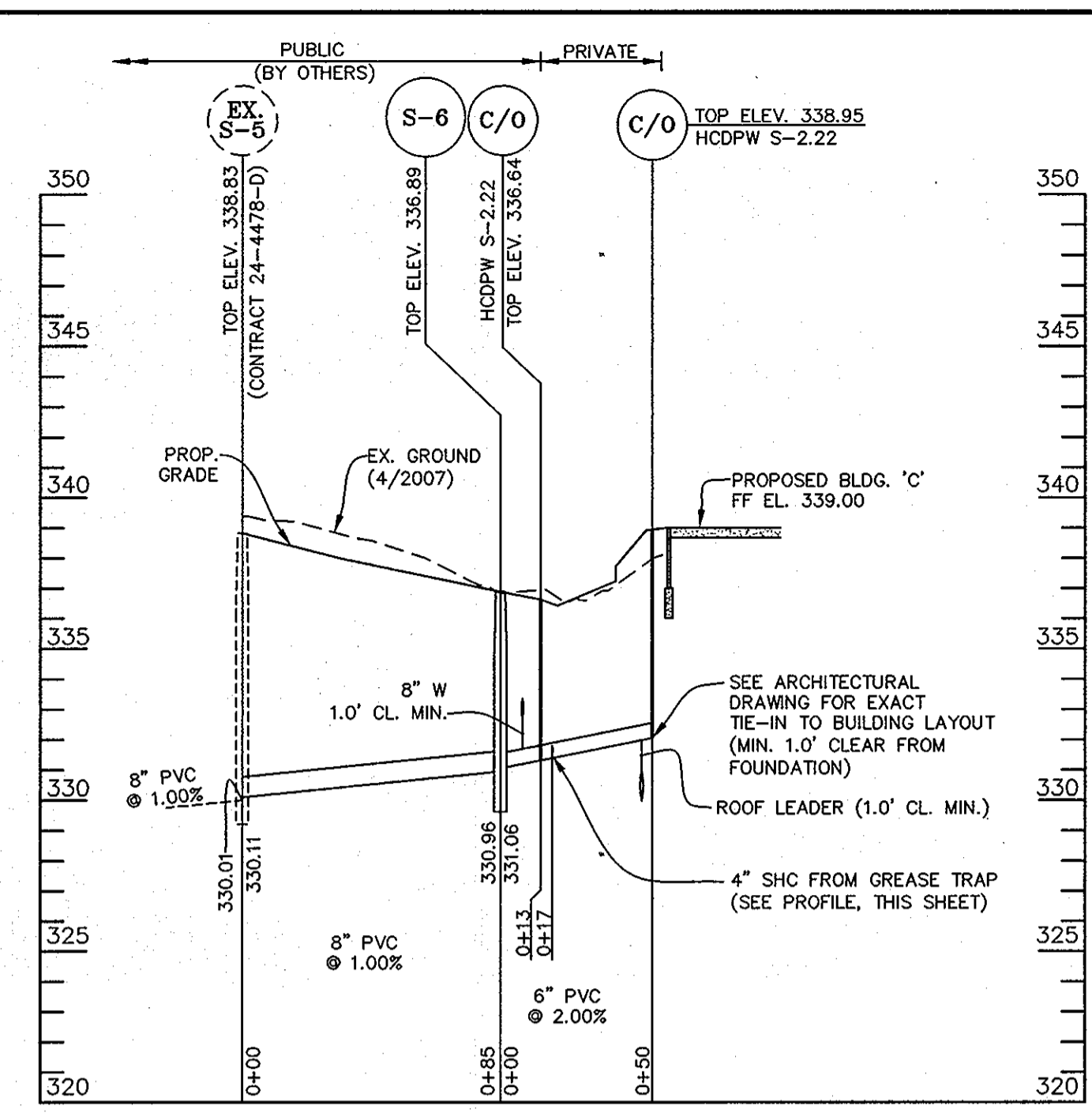
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| BY | NO. | REVISION | DATE |
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| | | ADDED SHEETS 30-32 | |

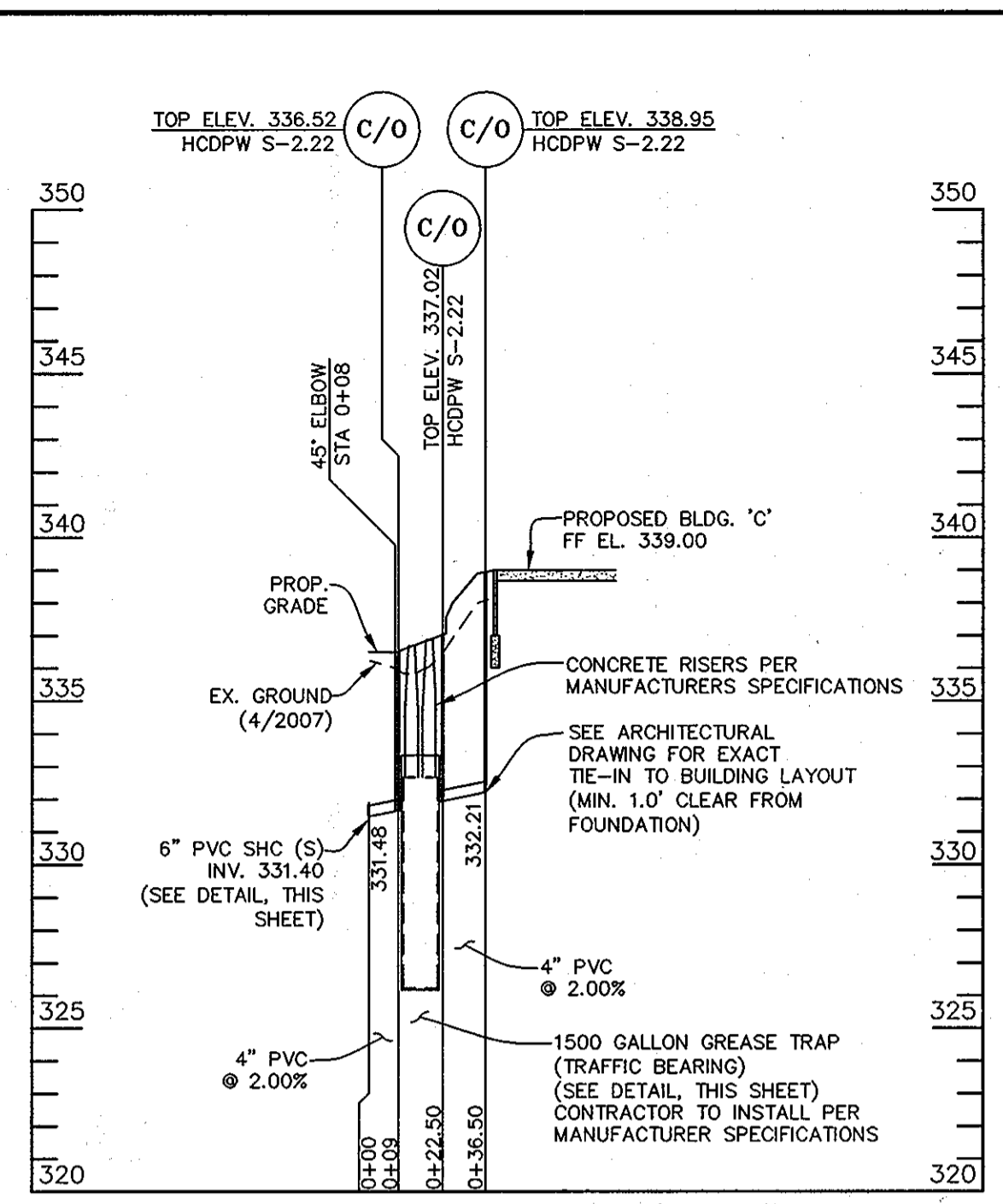
BUILDING ELEVATIONS & DETAILS
BUILDINGS 'C' AND 'D'
REVISED SDP-07-078
MINSTREL CROSSING II
MINSTREL CROSSING SUBDIVISION
LOTS 24 THROUGH 28
ELECTION DISTRICT 6
PLAT REF. 19555, 17/35, 24/99
SCALE: AS SHOWN
DRG NO.: SDP-30
HOWARD COUNTY, MD
M 42 G 3, 9 P 375, 399
OCTOBER 11, 2012
SHEET 30 OF 32



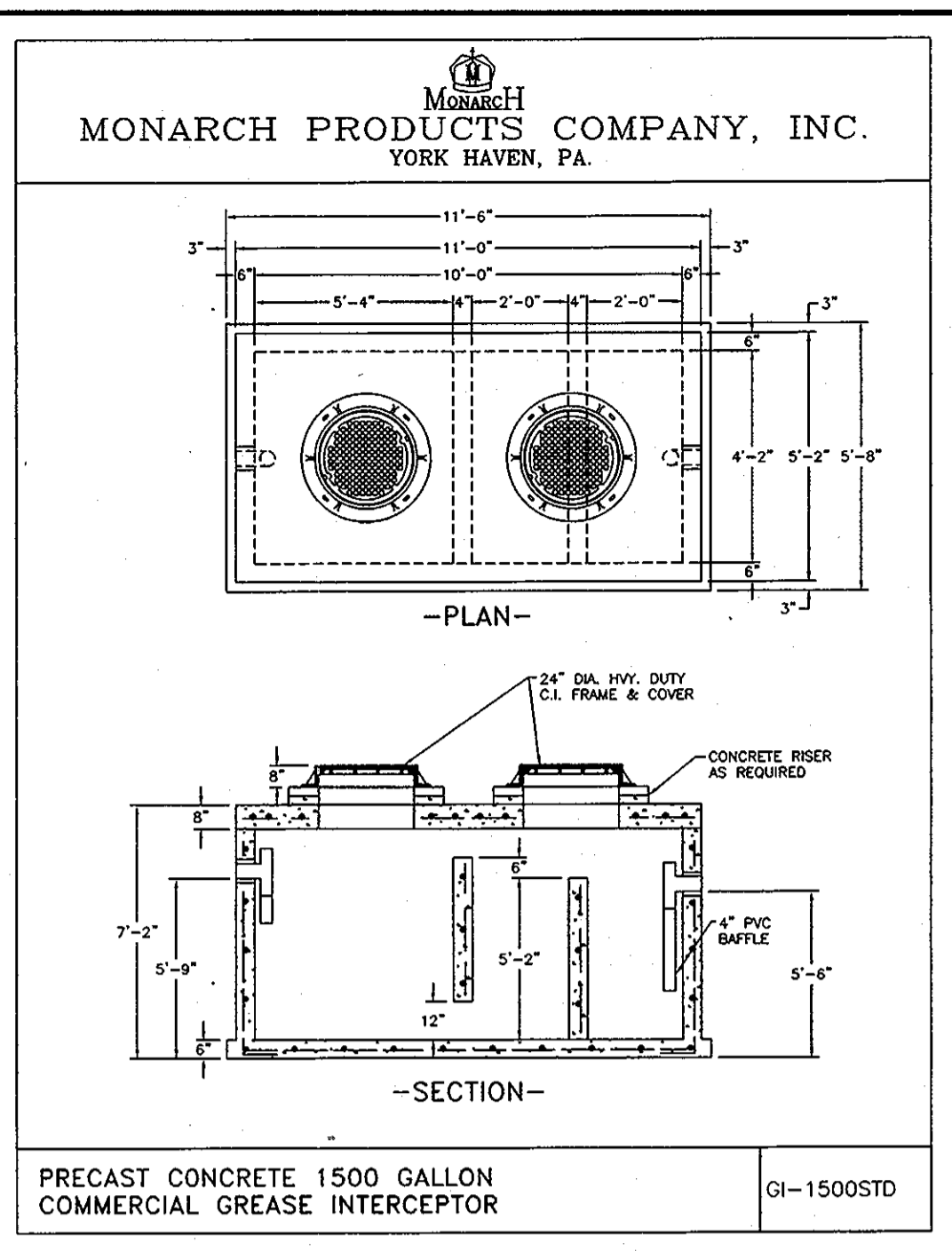
BUILDING 'C' 6" WHC (PRIVATE)
SCALE: 1"=5' (VERT.)
1"=50' (HORIZ.)



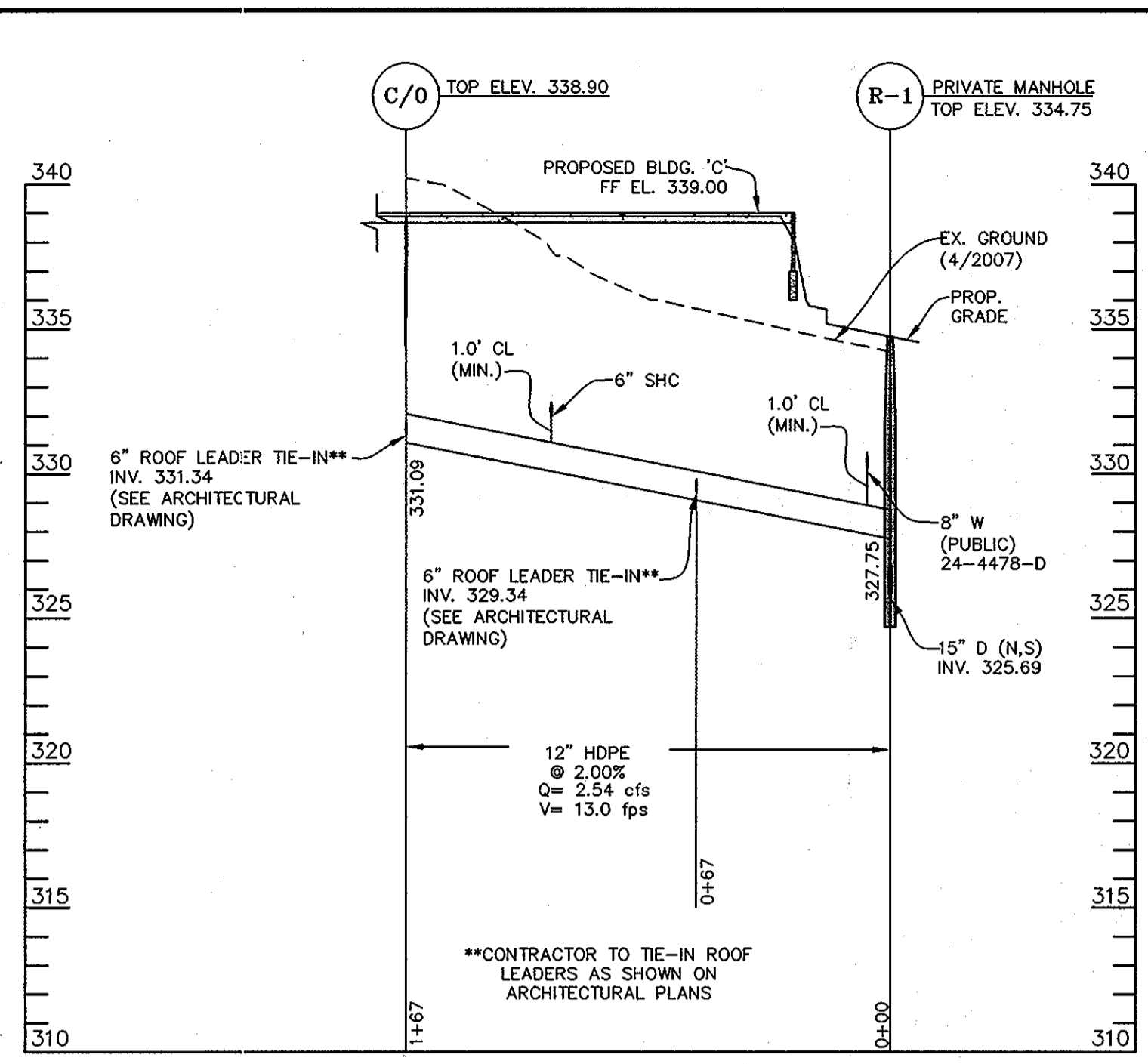
BUILDING 'C' 6" SHC - MAIN LINE (PRIVATE)
SCALE: 1"=5' (VERT.)
1"=50' (HORIZ.)



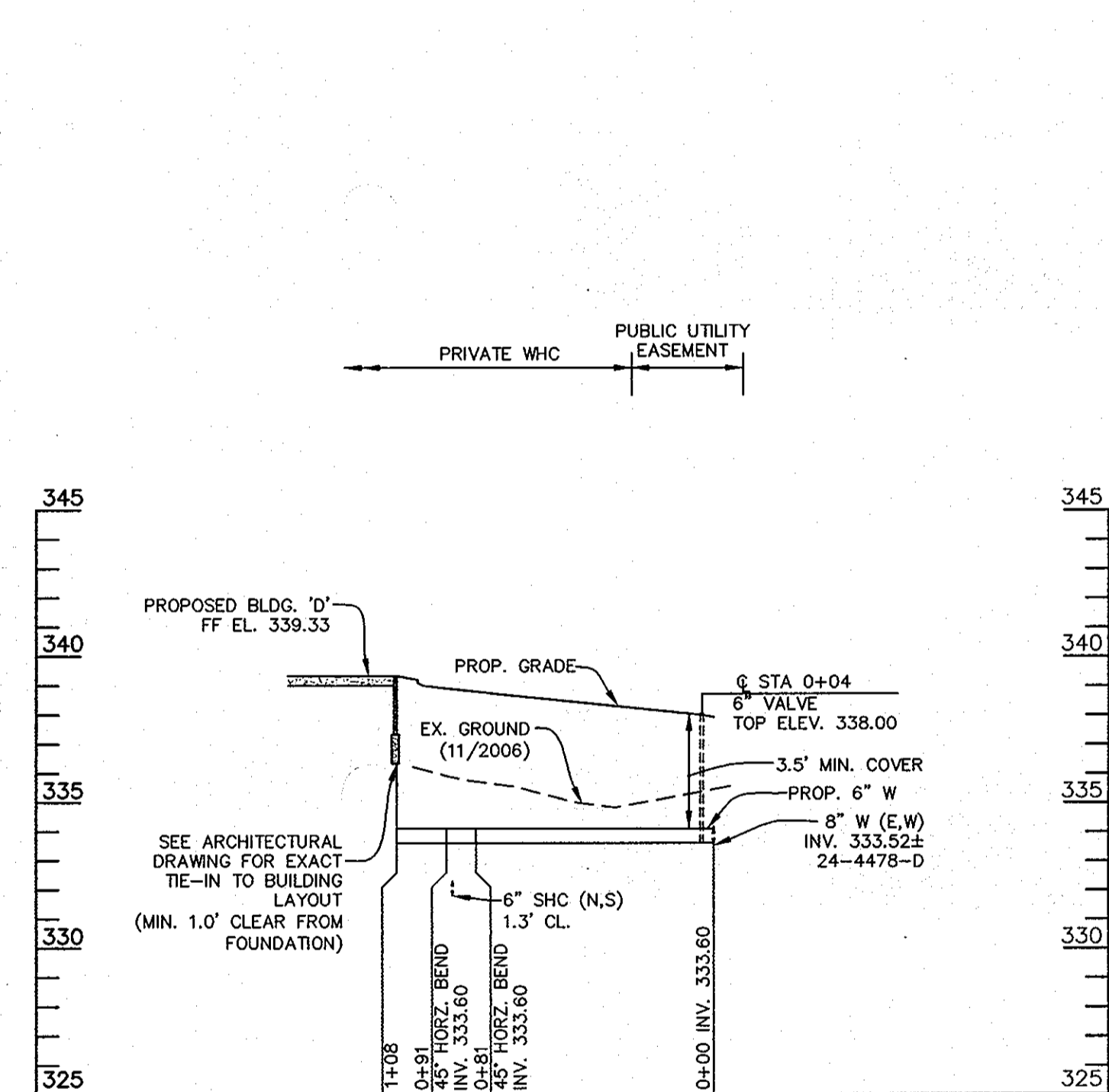
BUILDING 'C' 4" GREASE TRAP SHC (PRIVATE)
SCALE: 1"=5' (VERT.)
1"=50' (HORIZ.)



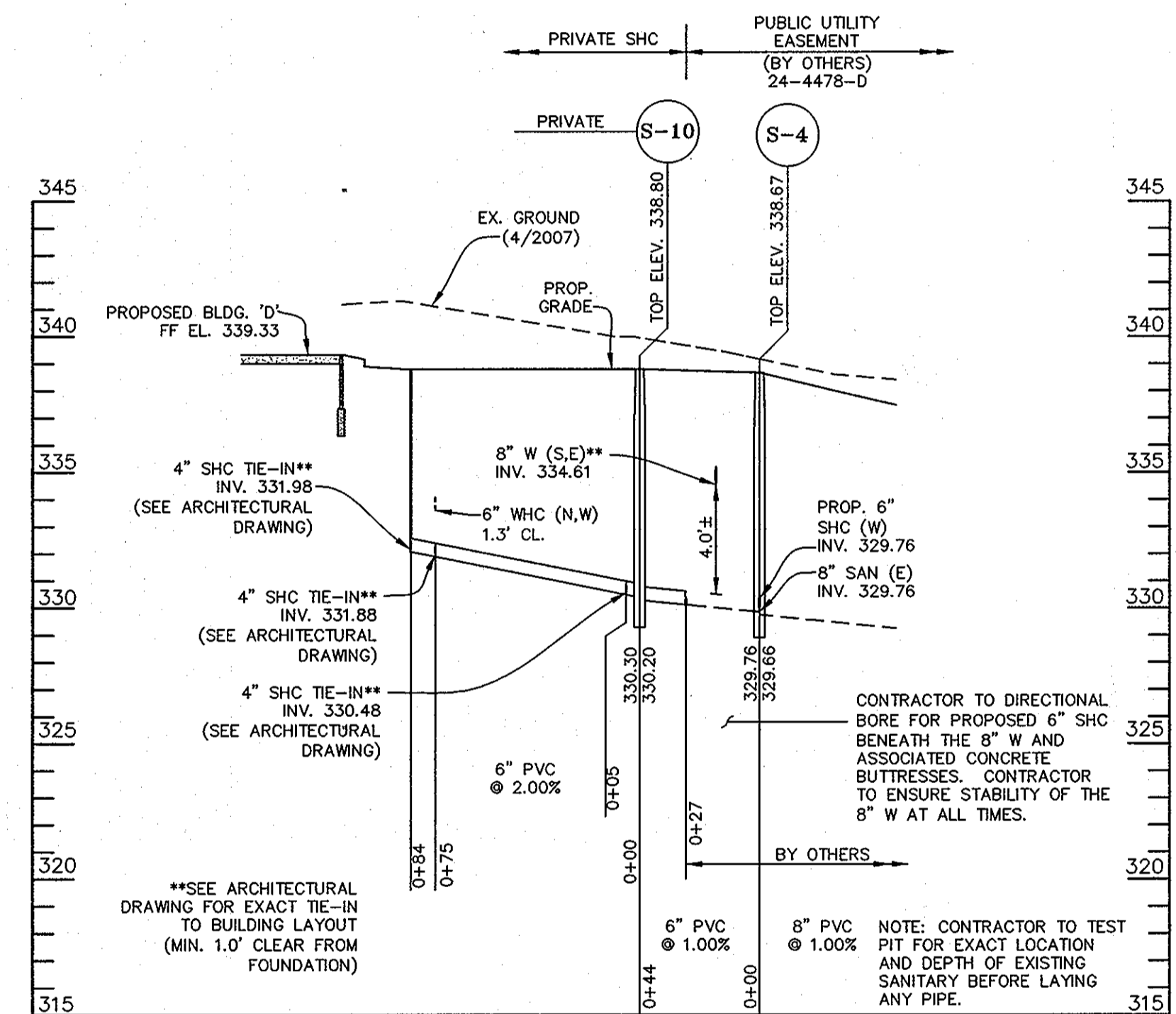
1500 GALLON GREASE TRAP DETAIL
CONTRACTOR TO USE TRAFFIC BEARING
PRE-CAST CONCRETE 1500 GALLON
INTERCEPTOR, OR APPROVED EQUAL



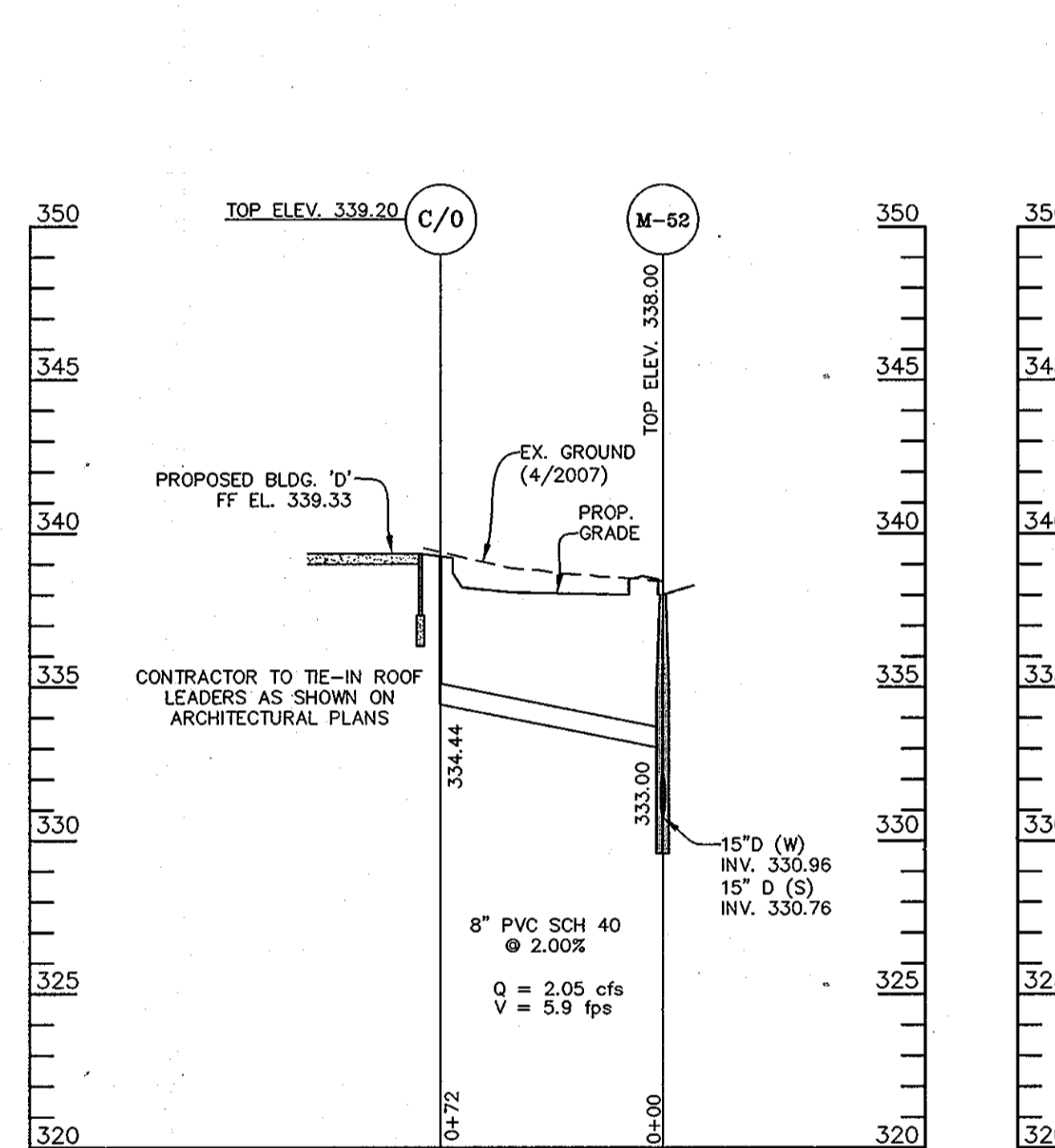
BUILDING 'C' 12" ROOF DRAIN COLLECTOR
SCALE: VERT. 1"=5'
HORIZ. 1"=50'



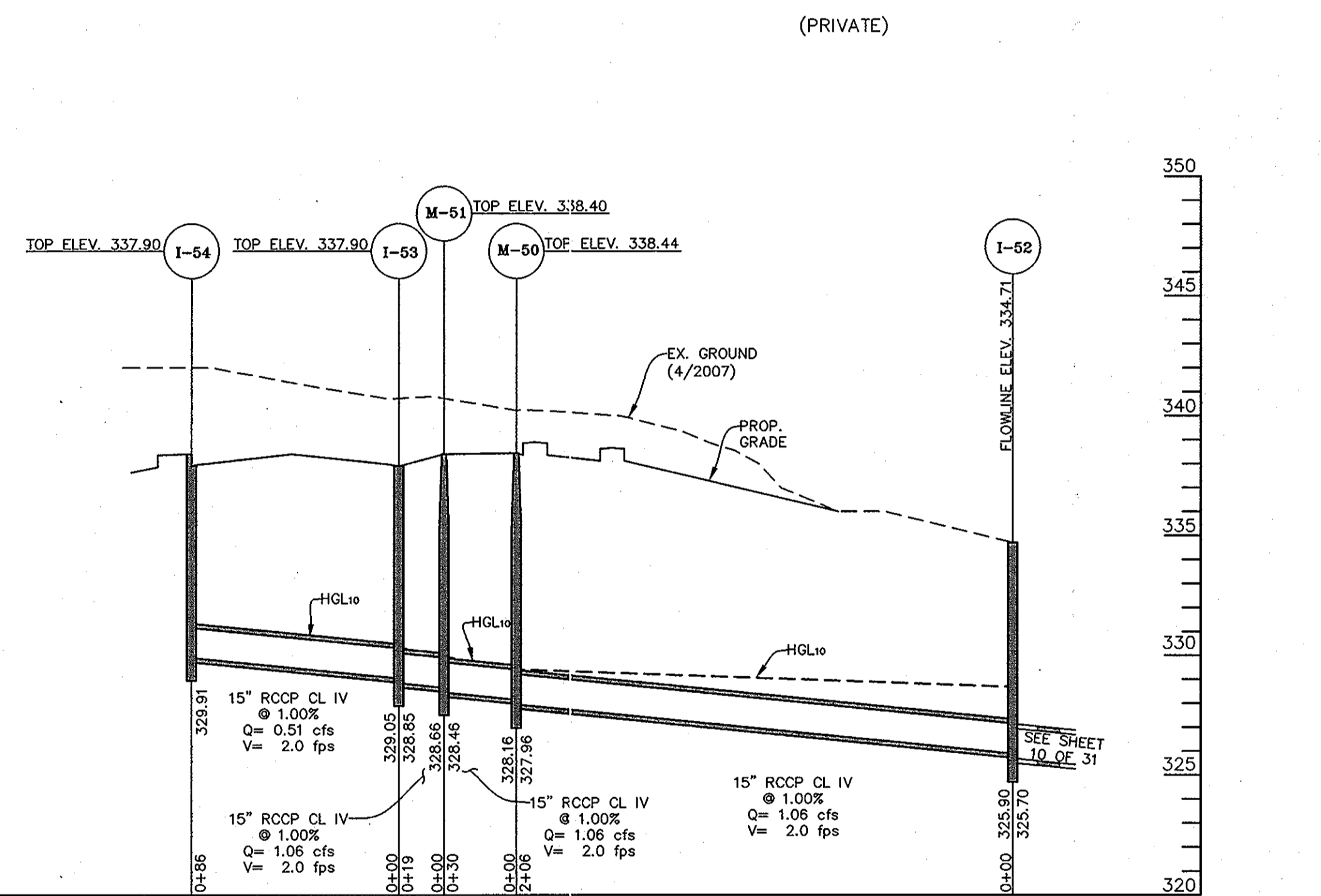
BUILDING 'D' 6" WHC (PRIVATE)
SCALE: 1"=5' (VERT.)
1"=50' (HORIZ.)



BUILDING 'D' 6" SHC (PRIVATE)
SCALE: 1"=5' (VERT.)
1"=50' (HORIZ.)



BUILDING 'D' 8" ROOF DRAIN COLLECTOR
SCALE: VERT. 1"=5'
HORIZ. 1"=50'
(PRIVATE)



BUILDING 'C' 15" ROOF DRAIN COLLECTOR
SCALE: VERT. 1"=5'
HORIZ. 1"=50'
(PRIVATE)

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE *04/12/2008 05/24/2012*

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. 16019, EXPIRATION DATE 5/6/2014.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
DIRECTOR



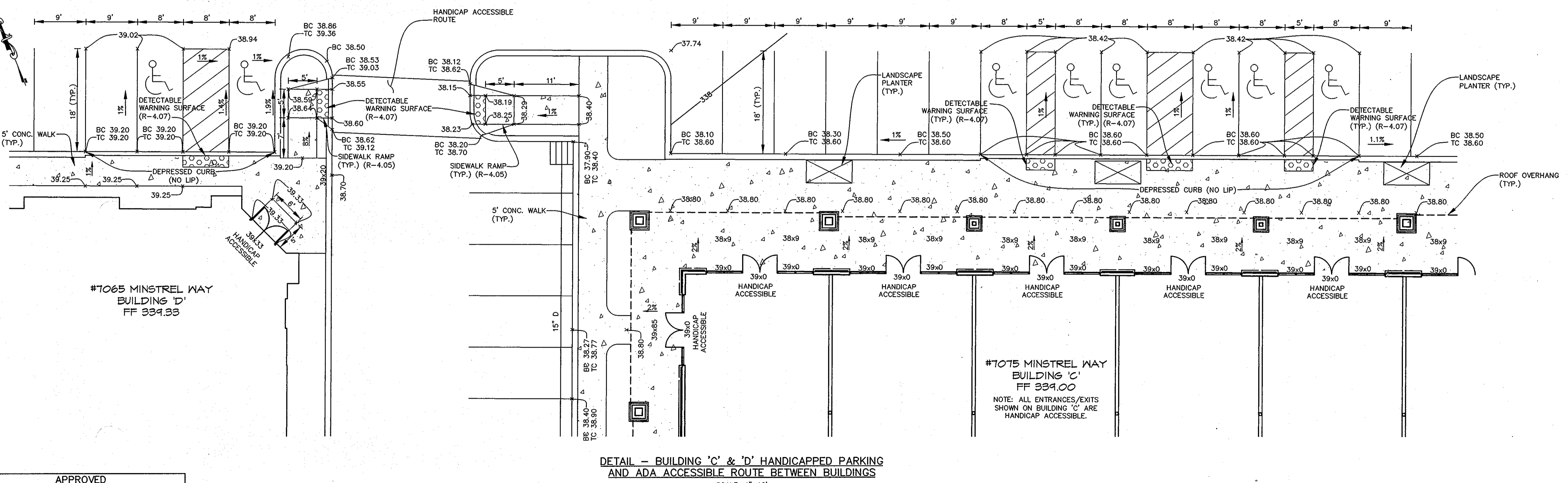
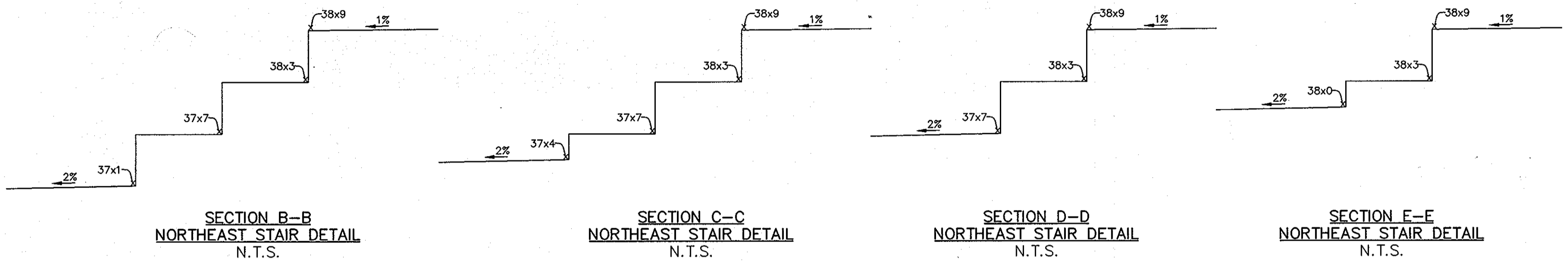
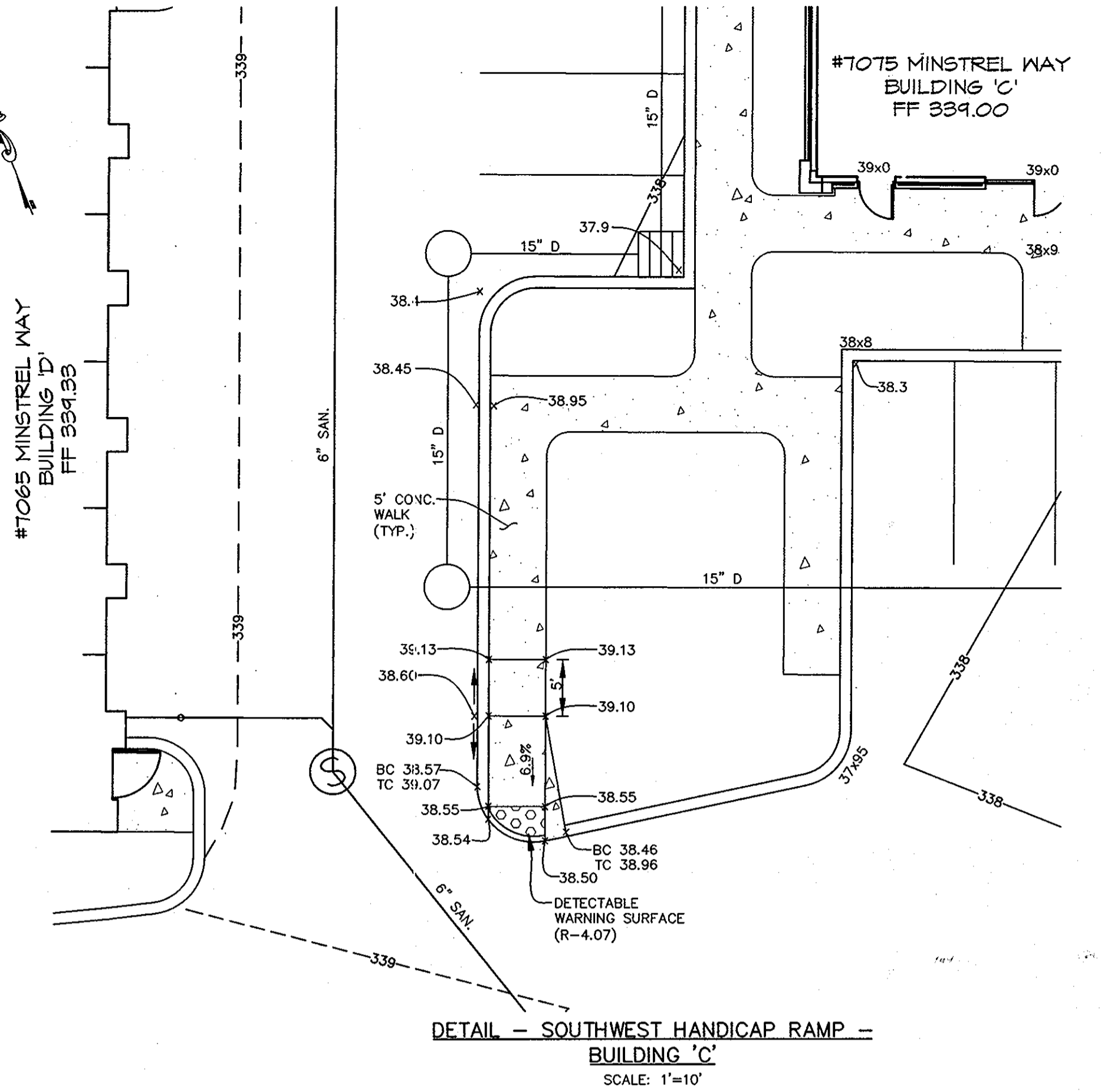
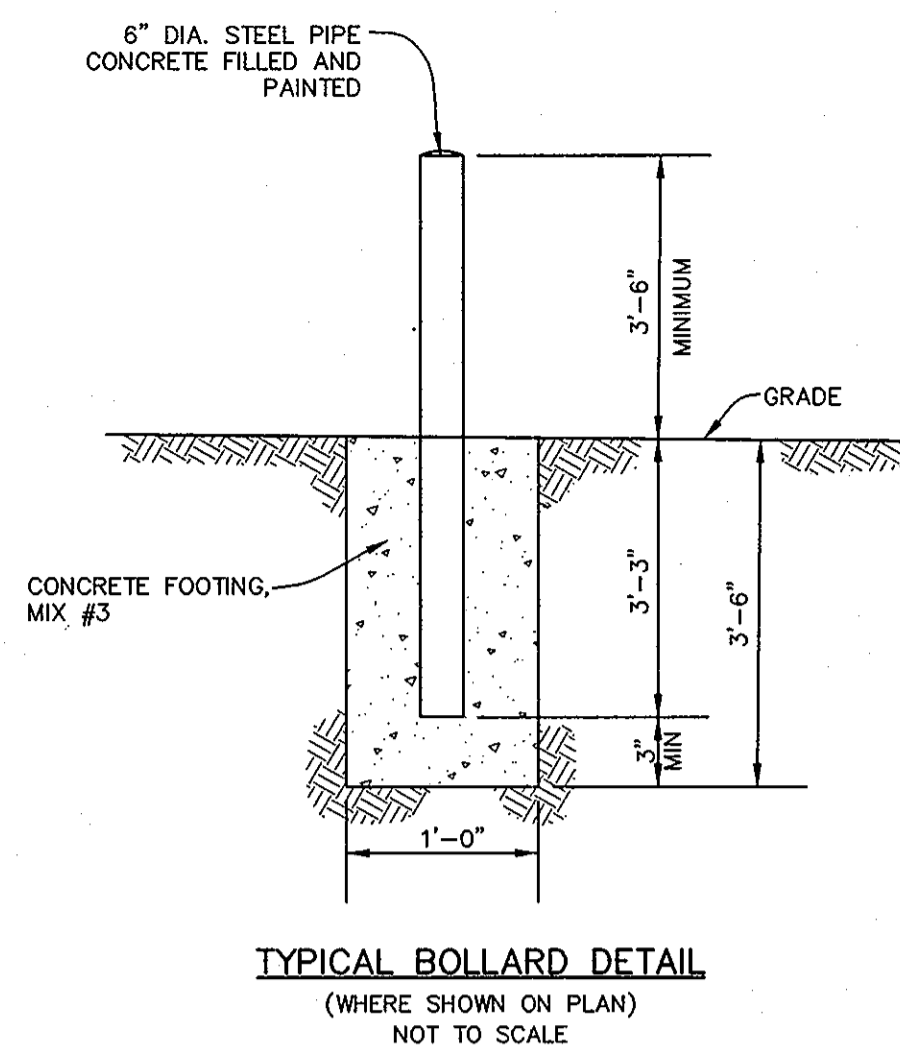
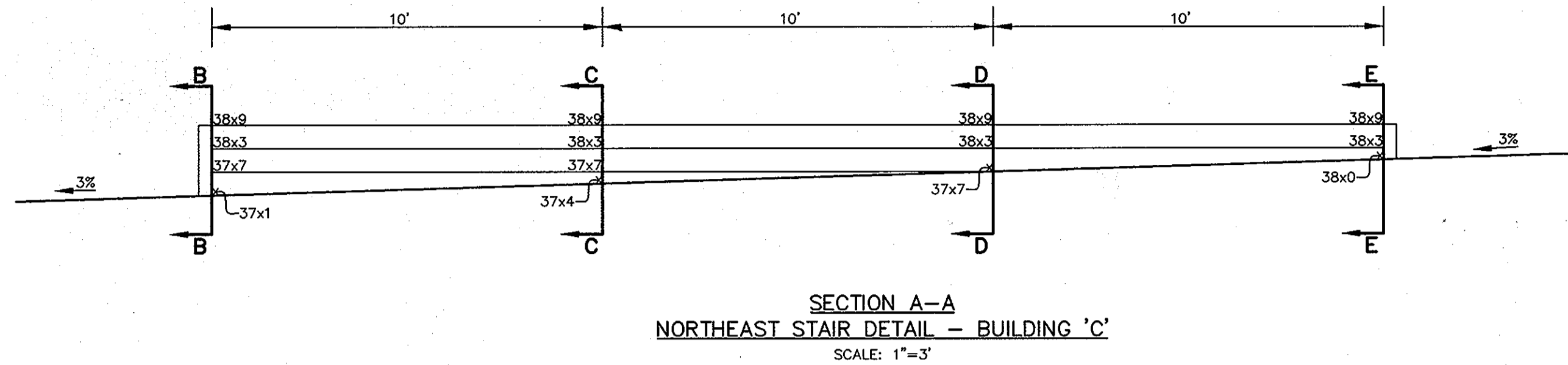
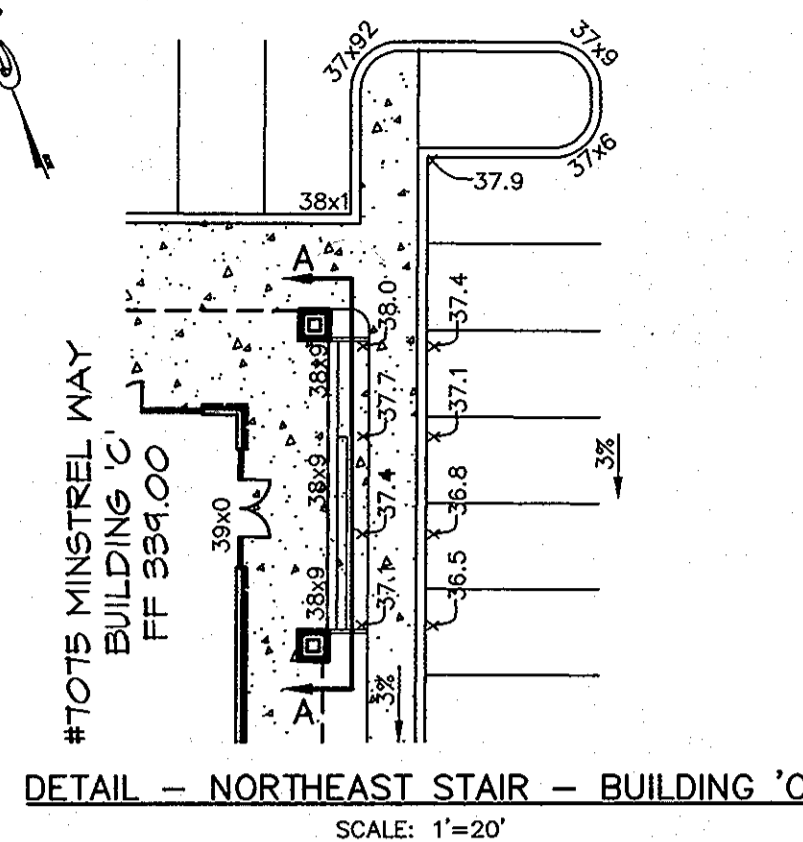
LITTLE & ASSOCIATES, INC.
ENGINEERS~LAND PLANNERS~SURVEYORS
1055 TAYLOR AVENUE, SUITE 307
TOWSON, MARYLAND 21286
PHONE: (410)296-1636 FAX: (410)296-1639

OWNER:
SNOWDEN ROCK, LLC; OTO ROCK, LLC; COLEMAN ROCK, LLC
TRANSITION ROCK, LLC; PILL ROCK, LLC
C/O OTO DEVELOPMENT
6800 DEERPETH ROAD
ELKRIDGE, MD 21075
410-579-2442
CHEVY CHASE BANK, F.S.B.
7501 WISCONSIN AVENUE, 9TH FLR
BETHESDA, MD 20814
240-497-7032

DEVELOPER:
H&H ROCK
6800 DEERPETH ROAD
SUITE 100
ELKRIDGE, MD 21075
410-579-2442

| BY | NO. | REVISION | DATE |
|-----|-----|-----------------------------|-------|
| LAI | 1 | ADDED BUILDINGS 'C' AND 'D' | 10/12 |
| | 2 | ADDED SHEETS 30-32 | |

SITE UTILITY PLAN & PROFILES
BUILDING 'C' AND 'D'
REVISED SDP-07-078
MINSTREL CROSSING II
MINSTREL CROSSING SUBDIVISION
LOTS 24 THROUGH 28
ELECTION DISTRICT 6
PLAT REF. 19555, 17/35, 24/99
SCALE: AS SHOWN
DRG NO.: SDP-31
HOWARD COUNTY, MD
M 42 G 3, 9 P 375, 399
OCTOBER 11, 2012
SHEET 31 OF 32



APPROVED
PLANNING BOARD OF HOWARD COUNTY

DATE 04/10/2008, 05/24/2012

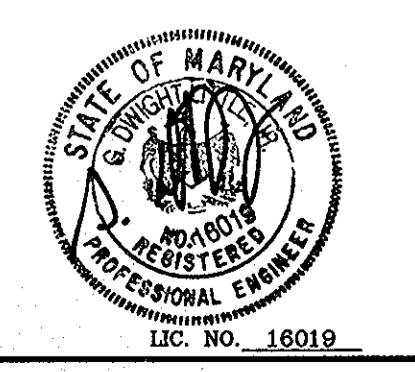
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THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME,
AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO.
16019, EXPIRATION DATE 5/9/2014.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE 11/30/12

CHIEF, DIVISION OF LAND DEVELOPMENT
DATE 12/11/12

DIRECTOR
DATE 12/14/12



LITTLE & ASSOCIATES, INC.
ENGINEERS~LAND PLANNERS~SURVEYORS
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| | | | |
|-----|-----|-----------------------------|-------|
| BY | NO. | REVISION | DATE |
| LAI | 30 | ADDED BUILDINGS 'C' AND 'D' | 10/12 |
| | 32 | ADDED SHEETS 30-32 | |

SITE DETAILS
BUILDINGS 'C' AND 'D'
REVISED SDP-07-078

MINSTREL CROSSING II
MINSTREL CROSSING SUBDIVISION
LOTS 24 THROUGH 28

ELECTION DISTRICT 6
PLAT REF. 19555,17/35,24/99,20043,22073
SCALE: AS SHOWN
DRG NO.: SDP-32

HOWARD COUNTY, MD
M 42 G 3, 9 P 375, 399
OCTOBER 11, 2012
SHEET 32 OF 32

SDP-07-078