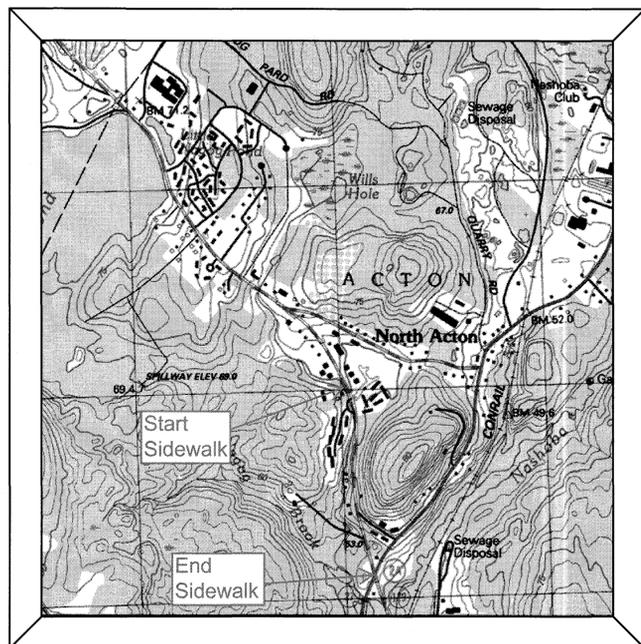
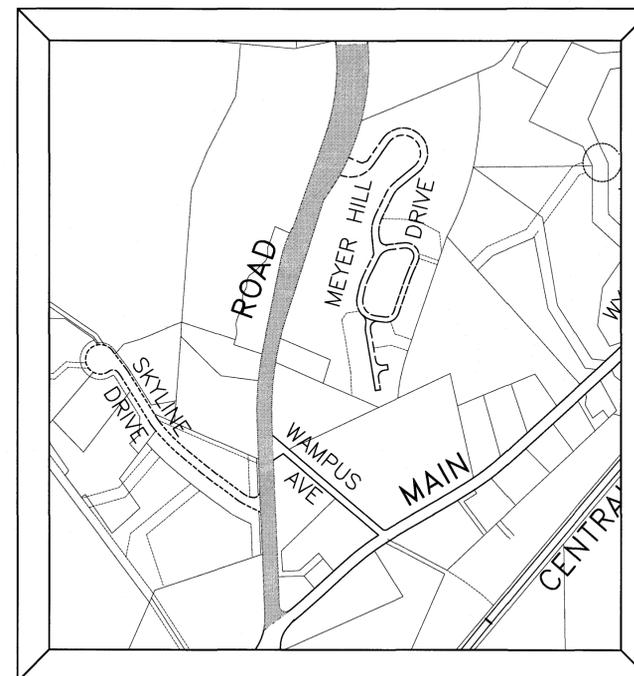


# GREAT ROAD SIDEWALK FOR THE TOWN OF ACTON FROM MAIN STREET TO MEYER HILL DRIVE ACTON, MASSACHUSETTS

DATE: OCTOBER 29, 2015



**LOCUS PLAN**  
NOT TO SCALE



**VICINITY MAP**  
SCALE: 1" = 400'

**RECORD OWNER:**

THE TOWN OF ACTON  
472 MAIN STREET  
ACTON, MA 01720

**INDEX**

SHEET 1	TITLE SHEET
SHEET 2 - 6	SIDEWALK PLAN
SHEET 7	CONSTRUCTION DETAILS



**CIVIL ENGINEER/SURVEYOR**

STAMSKI AND McNARY, INC  
1000 MAIN STREET  
ACTON, MASSACHUSETTS 01720  
(978) 263-8585

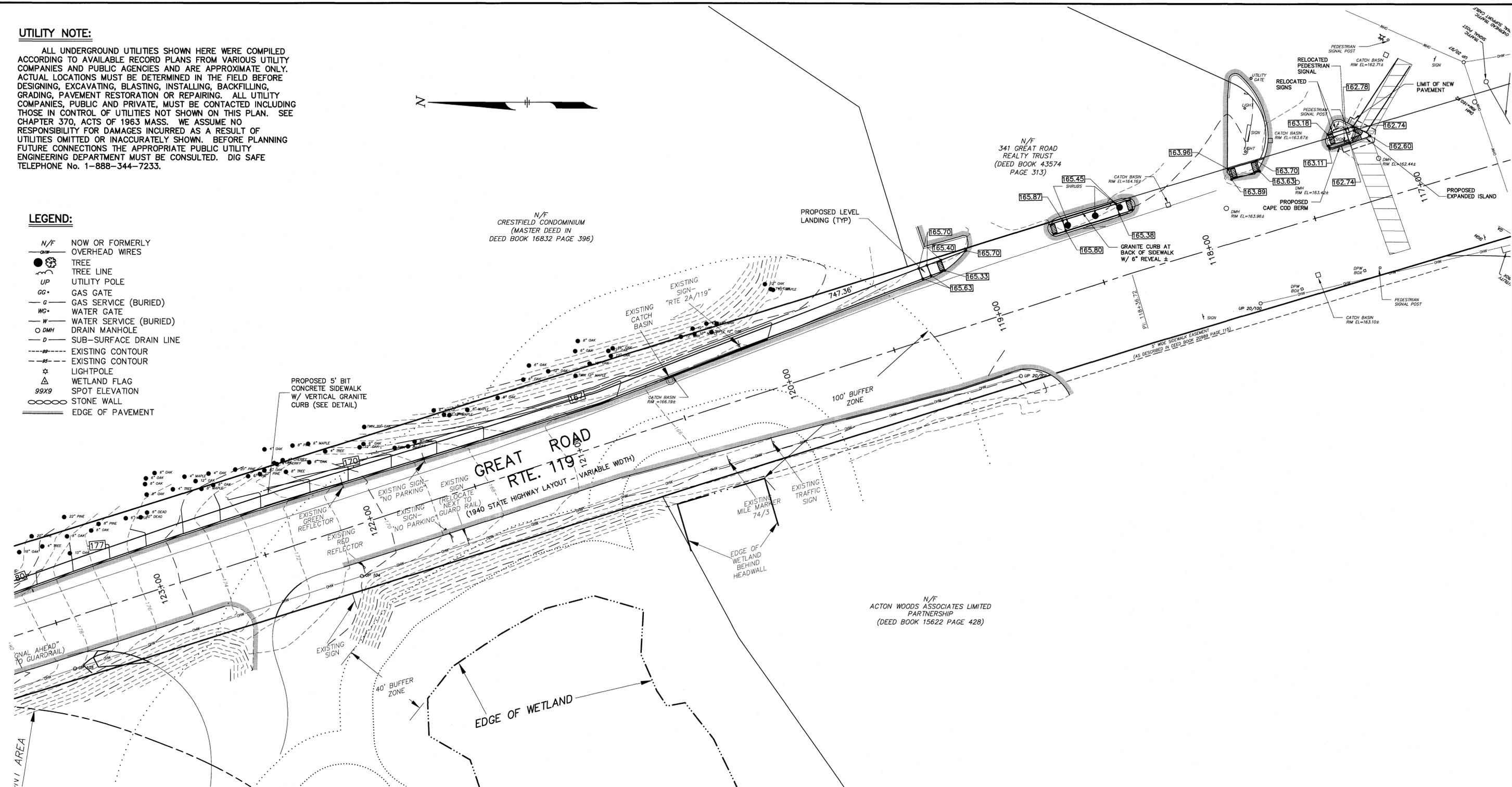


**UTILITY NOTE:**

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**LEGEND:**

- N/F NOW OR FORMERLY
- OVERHEAD WIRES
- TREE
- TREE LINE
- UP UTILITY POLE
- GG+ GAS GATE
- G GAS SERVICE (BURIED)
- WG+ WATER GATE
- W WATER SERVICE (BURIED)
- DMH DRAIN MANHOLE
- D SUB-SURFACE DRAIN LINE
- EXISTING CONTOUR
- - - EXISTING CONTOUR
- ☆ LIGHTPOLE
- △ WETLAND FLAG
- 99X9 SPOT ELEVATION
- ○ ○ ○ STONE WALL
- EDGE OF PAVEMENT



**SIDEWALK DESIGN PLAN  
IN  
ACTON, MASSACHUSETTS  
(MIDDLESEX COUNTY)**

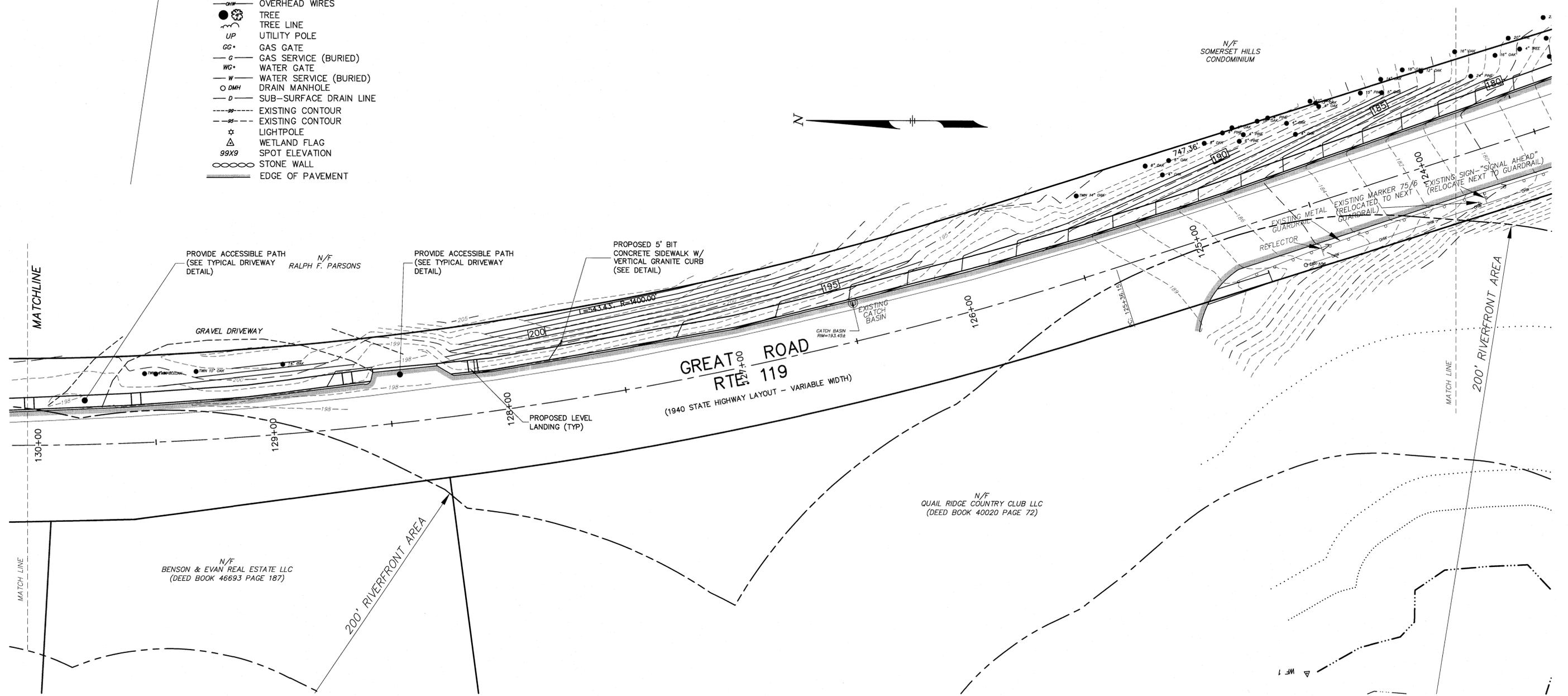
FOR: TOWN OF ACTON  
SCALE: 1"=20' OCTOBER 29, 2015

**STAMSKI AND McNARY, INC.**  
1000 MAIN STREET ACTON, MASSACHUSETTS  
ENGINEERING - PLANNING - SURVEYING



**LEGEND:**

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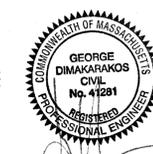
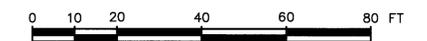
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**SIDEWALK DESIGN PLAN  
IN  
ACTON, MASSACHUSETTS  
(MIDDLESEX COUNTY)**

FOR: TOWN OF ACTON  
SCALE: 1"=20' OCTOBER 29, 2015

**STAMSKI AND MCNARY, INC.**  
1000 MAIN STREET ACTON, MASSACHUSETTS  
ENGINEERING - PLANNING - SURVEYING

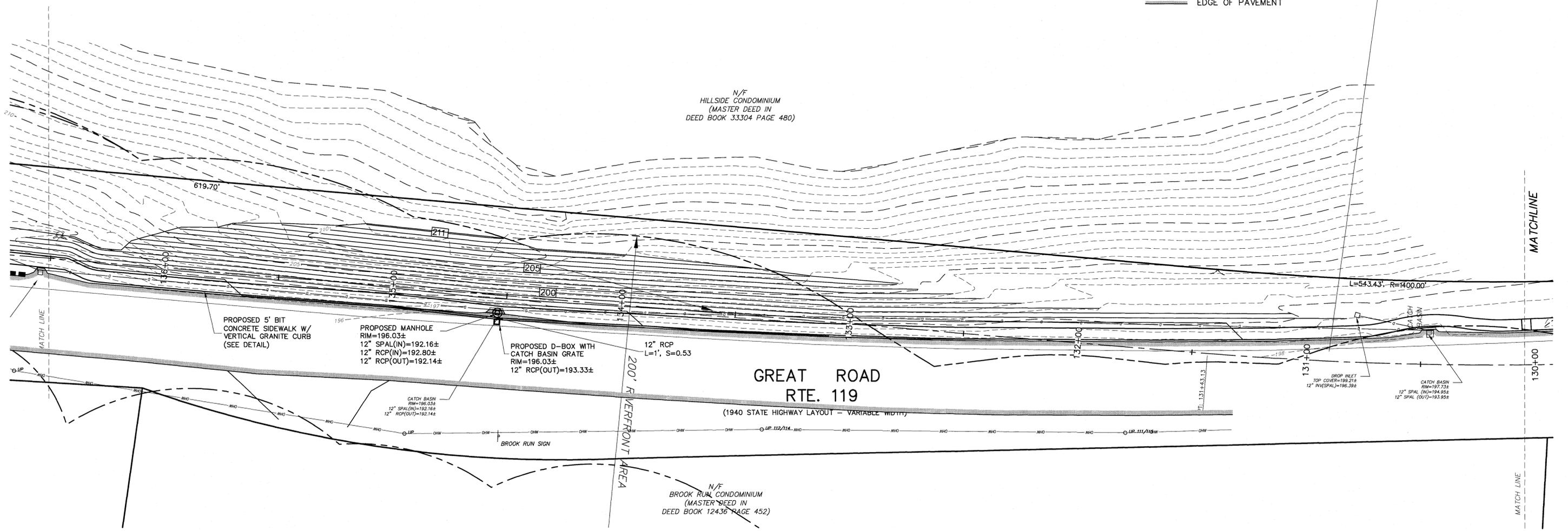


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N/F  
HILLSIDE CONDOMINIUM  
(MASTER DEED IN  
DEED BOOK 33304 PAGE 480)



**UTILITY NOTE:**

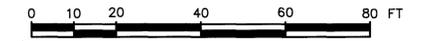
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**SIDEWALK DESIGN PLAN  
IN  
ACTON, MASSACHUSETTS  
(MIDDLESEX COUNTY)**

FOR: TOWN OF ACTON  
SCALE: 1"=20' OCTOBER 29, 2015



**STAMSKI AND McNARY, INC.**  
1000 MAIN STREET ACTON, MASSACHUSETTS  
ENGINEERING - PLANNING - SURVEYING



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N/F  
HILLSIDE CONDOMINIUM  
(MASTER DEED IN  
DEED BOOK 33304 PAGE 480)

N/F  
WOODVALE CONDOMINIUM  
(MASTER DEED IN  
DEED BOOK 13820 PAGE 458)

PROPOSED DRAINAGE CHANNEL  
W/ SIDEWALK ON TOP AND  
RIP-RAP OUTLET  
L=5', S=0.005  
INV. IN=194.23  
INV. OUT=194.21  
(SEE DETAIL)

PROPOSED 5" BIT  
CONCRETE SIDEWALK  
(SEE DETAIL)

PROPOSED 5" BIT  
CONCRETE SIDEWALK  
(SEE DETAIL)

GREAT ROAD  
RTE. 119

WILL'S HOLE BROOK

EDGE OF BORDERING  
VEGETATED WETLANDS

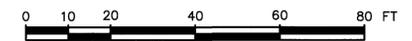
APPROXIMATE MEAN ANNUAL  
HIGH WATER LINE

SIDEWALK DESIGN PLAN  
IN

**ACTON, MASSACHUSETTS**  
(MIDDLESEX COUNTY)

FOR: TOWN OF ACTON  
SCALE: 1"=20' OCTOBER 29, 2015

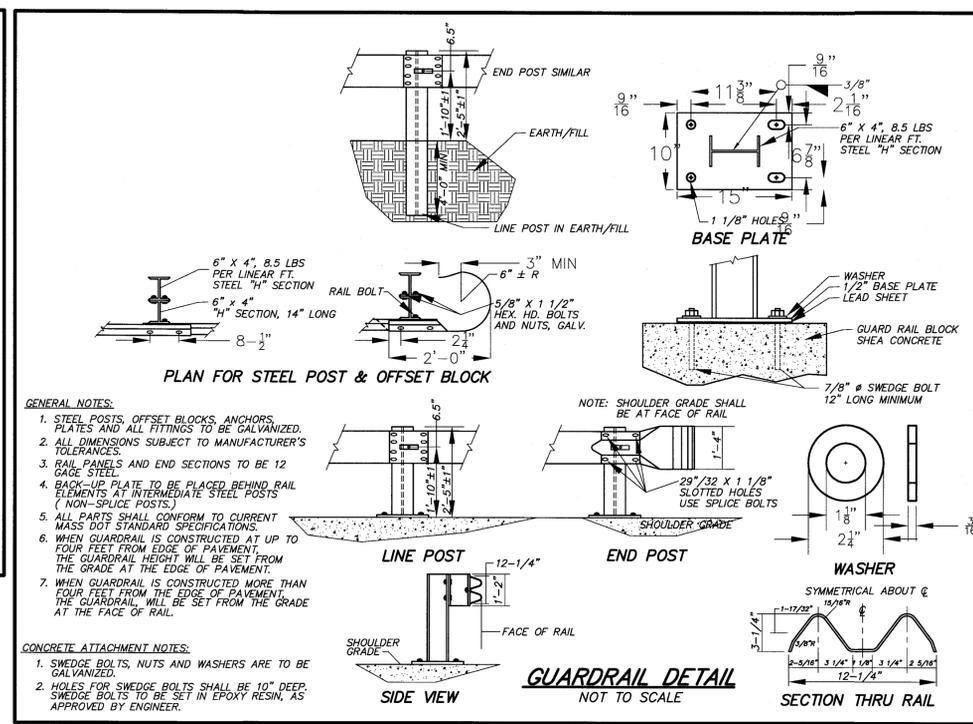
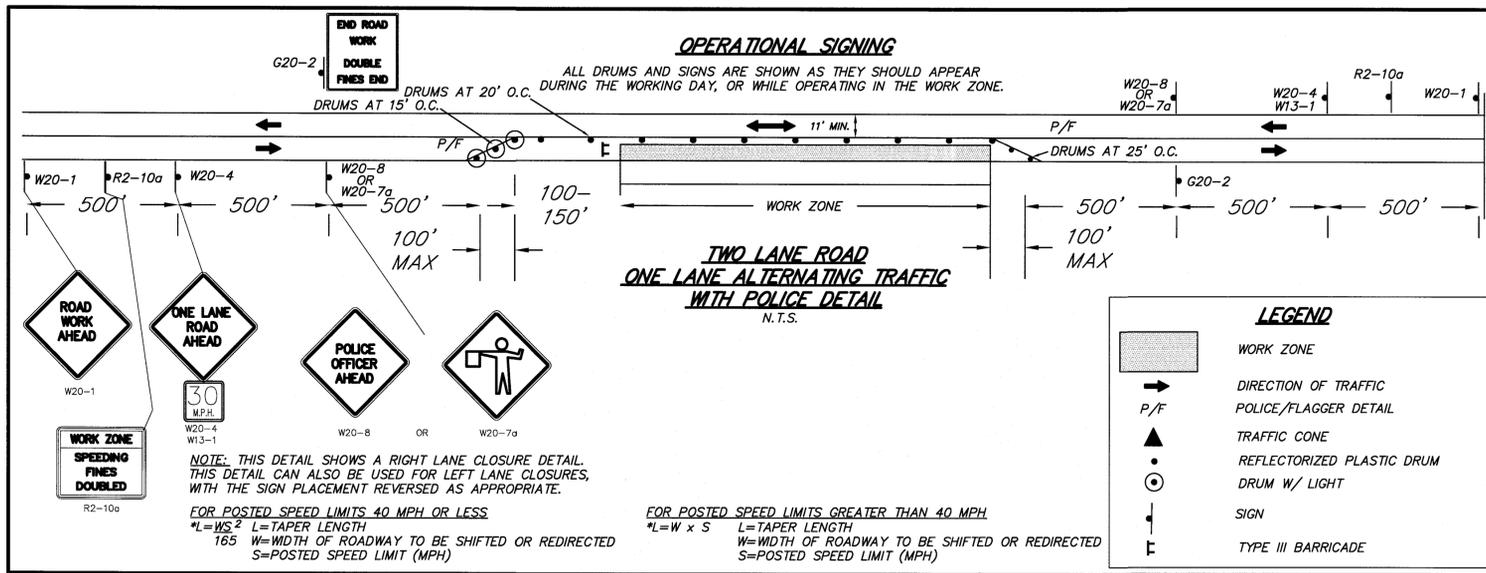
**STAMSKI AND McNARY, INC.**  
1000 MAIN STREET ACTON, MASSACHUSETTS  
ENGINEERING - PLANNING - SURVEYING



(5353SIDEWALK.dwg) Great Road SM-5353  
SHEET 5 OF 6

**UTILITY NOTE:**  
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**NOTES:**

- ALL RAMPS TO BE CONSTRUCTED OF CEMENT CONCRETE.
- ALL RAMPS TO HAVE DETECTABLE WARNING PANELS CONFORMING TO RS-13.
- FIELD LOCATION OF WHEELCHAIR RAMPS TO BE APPROVED BY TOWN ENGINEER PRIOR TO CONSTRUCTION.

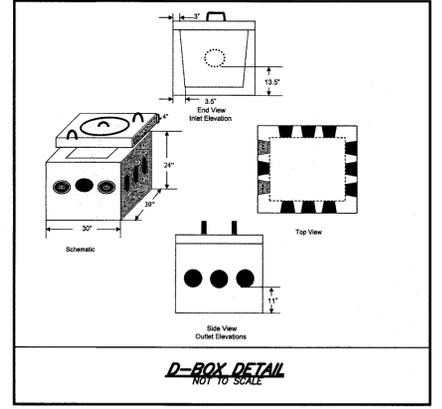
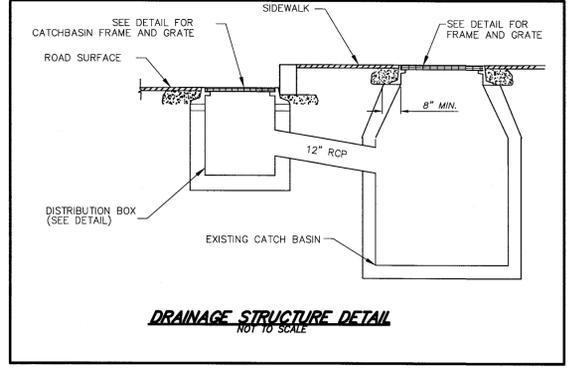
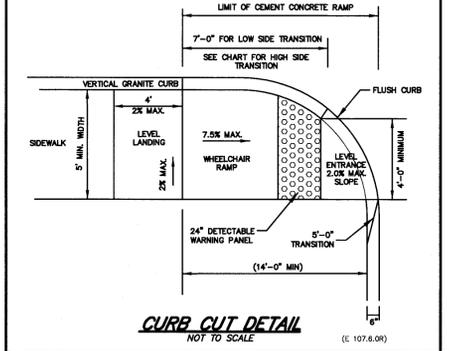
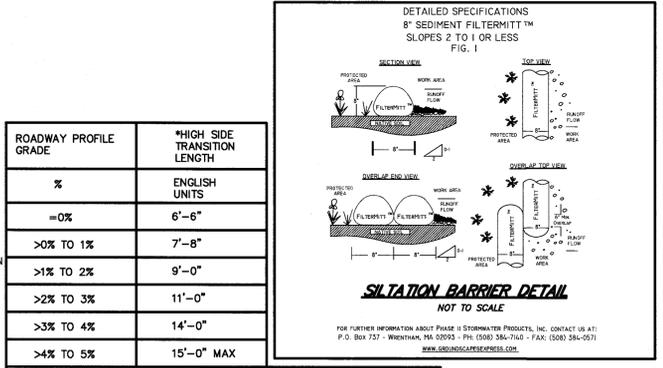
**TABLE OF TRANSITION LENGTHS**

ROADWAY PROFILE GRADE (%)	HIGH SIDE TRANSITION LENGTH
0	6'-6"
>0-1	7'-8"
>1-2	9'-0"
>2-3	11'-0"
>3-4	14'-0"
>4	15'-0" (MAX.)

\* BASED ON A DESIGN SLOPE OF 7.5% AND 6" OF CURB REVEAL

**DETACHABLE WARNING PANEL AND WHEELCHAIR RAMP DETAIL**  
NOT TO SCALE

- EROSION AND SEDIMENTATION CONTROL NOTES**
- THE LIMIT OF WORK LINE SHALL BE CLEARLY MARKED IN THE FIELD BY FIELD SURVEY PRIOR TO CONSTRUCTION WITHIN DESIGNATED AREA. LIMIT OF WORK LINE SHALL NOT EXCEED THE LINE SHOWN.
  - EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED FOR EACH PHASE PRIOR TO ANY CONSTRUCTION ON THE SITE. CONTRACTOR IS ENCOURAGED TO USE "FILTERMATT" IN LIEU OF HAYBALE/SILTATION BARRIER IF ACCEPTABLE TO THE TOWN OF ACTON CONSERVATION COMMISSION.
  - DURING DEVELOPMENT AND CONSTRUCTION, ADEQUATE PROTECTIVE MEASURES SHALL BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACE OF FILLS.
  - LAND SHALL BE DISTURBED IN INCREMENTS OF WORKABLE SIZE WHICH CAN BE COMPLETED DURING A SINGLE CONSTRUCTION SEASON. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE COORDINATED WITH THE SEQUENCE OF GRADING AND CONSTRUCTION OPERATIONS. CONTROL MEASURES SUCH AS HYDROSEEDING, BERMS, INTERCEPTOR DITCHES, TERRACES, AND SEDIMENT TRAPS SHALL BE PUT INTO EFFECT PRIOR TO THE COMMENCEMENT OF EACH INCREMENT OF THE DEVELOPMENT/CONSTRUCTION PROCESS.
  - THE CONTRACTOR SHALL INSPECT AND REPAIR ALL EROSION CONTROL DEVICES, WHEN INTENSE RAINFALL IS PREDICTED. THE CONTRACTOR'S REPRESENTATIVE SHALL INSPECT THE CONSTRUCTION SITE AT LEAST EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 0.5 INCHES OR MORE. AREAS WITH SITES THAT HAVE BEEN FINALLY STABILIZED MUST BE INSPECTED AT LEAST ONCE A MONTH.
  - STOCK PILES SHALL BE SET BACK A MINIMUM OF 5 FEET FROM THE EDGE OF PAVEMENT. ALL STOCK PILES SHALL BE CONTAINED WITH SILT FENCES OR HAYBALES TO PREVENT EROSION FROM ENTERING THE STREET DRAINAGE. NPDES PERMITS REQUIRE THE STOCKPILES TO BE STABILIZED WITH SEED OR MULCH IF NOT BEING USED WITHIN 21 DAYS. SOIL STOCK PILES SHALL BE COVERED WITH TEMPORARY VEGETATION OR FASTENED WITH TARPULIN SHEETS. STOCKPILES SHALL AVOID ALL SOIL ABSORPTION AREAS.
  - ALL CATCH BASIN RIMS SHALL BE FITTED WITH SILT SACKS DURING CONSTRUCTION.
  - ALL CATCH BASIN SUMPS AND DRAINAGE BASINS SHALL BE CLEANED DURING AND FOLLOWING CONSTRUCTION.
  - THE CONTRACTOR IS REQUIRED TO CLEAN UP ANY SAND, DIRT, OR DEBRIS WHICH ERODES FROM THE SITE ONTO ANY PUBLIC STREET OR PRIVATE PROPERTY, AND TO REMOVE SILT OR DEBRIS THAT ENTERS ANY EXISTING DRAINAGE SYSTEM INCLUDING CATCH BASIN SUMPS, PIPE LINES, MANHOLES AND DITCHES.
  - ALL CUT AND FILL SLOPES SHALL BE IMMEDIATELY COVERED WITH 6" LOAM AND SEED DURING THE GROWING SEASON (APRIL 1 TO NOVEMBER 1) OR COVERED WITH A HAY MULCH DURING THE NON-GROWING SEASON (NOVEMBER 1 TO APRIL 1). IN AREAS SUBJECT TO THE WETLANDS PROTECTION ACT, THE HAY MULCH AND/OR REQUIRED MEASURES SHALL REMAIN IN PLACE UNTIL PERMANENT VEGETATION IS RE-ESTABLISHED.
  - DISTURBED AREAS WHERE CONSTRUCTION HAS PERMANENTLY OR TEMPORARILY CEASED MUST BE STABILIZED WITHIN 14 DAYS OF THE LAST DISTURBANCE. AREAS WHICH WILL BE REDISTURBED WITHIN 21 DAYS DO NOT HAVE TO BE STABILIZED.
  - ADDITIONAL EROSION CONTROL MEASURES SHALL BE STOCK-PILED ON-SITE, INCLUDING BUT NOT LIMITED TO CRUSHED STONE AND SILT FENCE.
  - THE SEDIMENT SHALL BE REMOVED BEHIND ALL SILT FENCES IF DEPTH EXCEEDS 6". SEDIMENT SHALL BE REMOVED TO OUTSIDE THE BUFFER ZONE OF THE WETLANDS WHERE APPLICABLE.
  - THE EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL ALL TRIBUTARY SURFACES ARE STABILIZED.



**Advanced AQUADUCK Systems**

Rectangular Underwalk Drainage Pipes & Fittings • Shower Repair Plates • Water Heater Pans • Frames & Grates

**SUBMITTAL DATA**  
Elevation 2001  
6481 Box Springs Blvd. • Riverside, CA 92507  
Tel: (951) 501-1140 • Fax: (951) 501-1150

**RECTANGULAR UNDERWALK DRAINAGE PIPE - 5' long**

Material Description	A	B	C	D	Material Thickness
AAP-5-35P Rectangular Underwalk Drainage Pipe	3"	6"	5"	3"	1/8"
AAP-5-30P Rectangular Underwalk Drainage Pipe	3"	9"	5"	3"	3/16"
AAP-5-12P Rectangular Underwalk Drainage Pipe	3"	12"	5"	3"	3/16"
AAP-5-317P Rectangular Underwalk Drainage Pipe	3"	17"	5"	3"	3/16"
AAP-5-327P Rectangular Underwalk Drainage Pipe	3"	27"	5"	3"	3/16"
AAP-5-14P Rectangular Underwalk Drainage Pipe	4"	14"	5"	3"	3/16"
AAP-5-420P Rectangular Underwalk Drainage Pipe	4"	20"	5"	3"	3/16"

**ENGINEERING:** Advanced Aquaduck casts formed, welded, hot-dip galvanized steel pipe and fittings are produced in accordance with mechanical and chemical property requirements of ASTM specification A500 grade "B". Tensile strength minimum 58,000 psi. Yield Point minimum 48,000 psi.

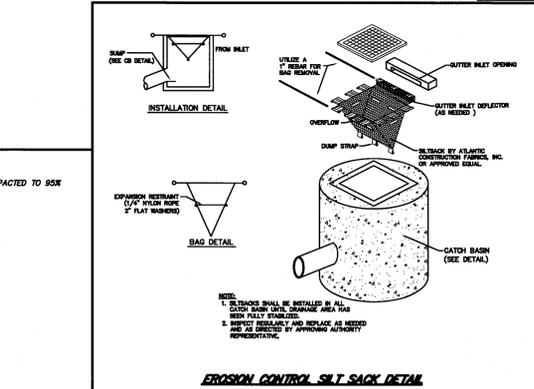
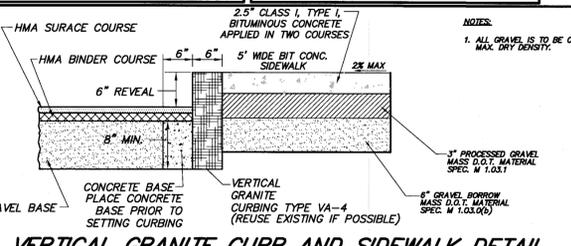
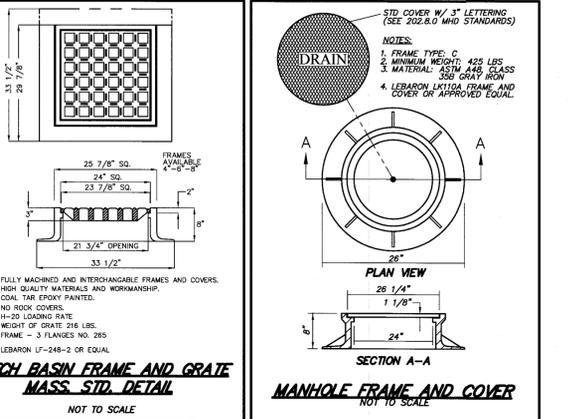
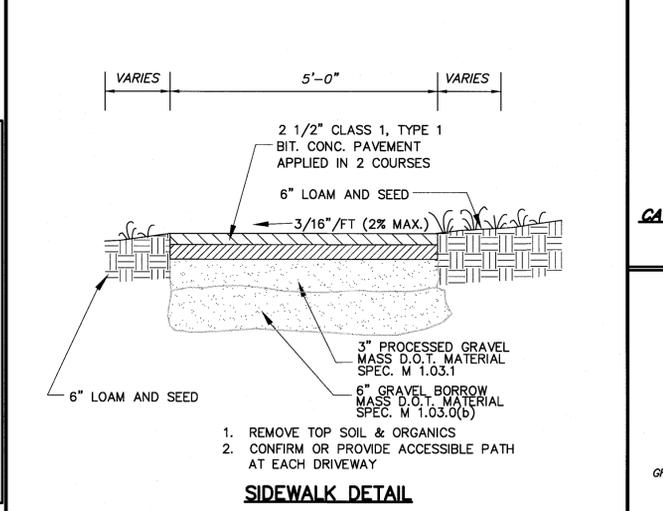
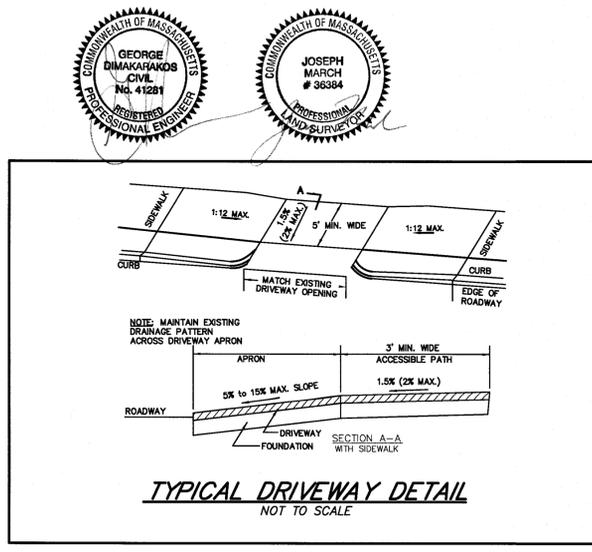
**COATING:** Asphalt emulsified with bentonite clay. Complies with ASTM D-1227-97 Type III and ASTM D-1187-87 Type I.

**APPLICATION:** Intrusion

**METHOD:** Rectangular to rectangular connections: lead and return, lead seal, epoxy bonding method, or other approved method. Cast iron or plastic pipe connection shall use cast iron or plastic to steel, no-hub style couplings.

**CONNECTION:** Rectangular to rectangular connections: lead and return, lead seal, epoxy bonding method, or other approved method. Cast iron or plastic pipe connection shall use cast iron or plastic to steel, no-hub style couplings.

Representative:



**SIDEWALK DESIGN PLAN**  
IN  
**ACTON, MASSACHUSETTS**  
(MIDDLESEX COUNTY)

FOR: **TOWN OF ACTON**  
SCALE: 1"=20' **OCTOBER 29, 2015**

**STAMSKI AND McNARY, INC.**  
1000 MAIN STREET ACTON, MASSACHUSETTS  
ENGINEERING - PLANNING - SURVEYING

0 10 20 40 60 80 FT

(5353SIDEWALK.dwg) Great Road SM-5353  
SHEET 6 OF 6