

PLANS PREPARED FOR HILLSIDE COMMERCIAL PARK

TOWN OF ORANGETOWN ROCKLAND COUNTY, NEW YORK

PLANNING BOARD
DEC 09 2015

APPLICANT/OWNER:

ROUTE 304 LLC
75 MICHAEL ROBERTS COURT
PEARL RIVER, NEW YORK 10965

SITE ENGINEER:

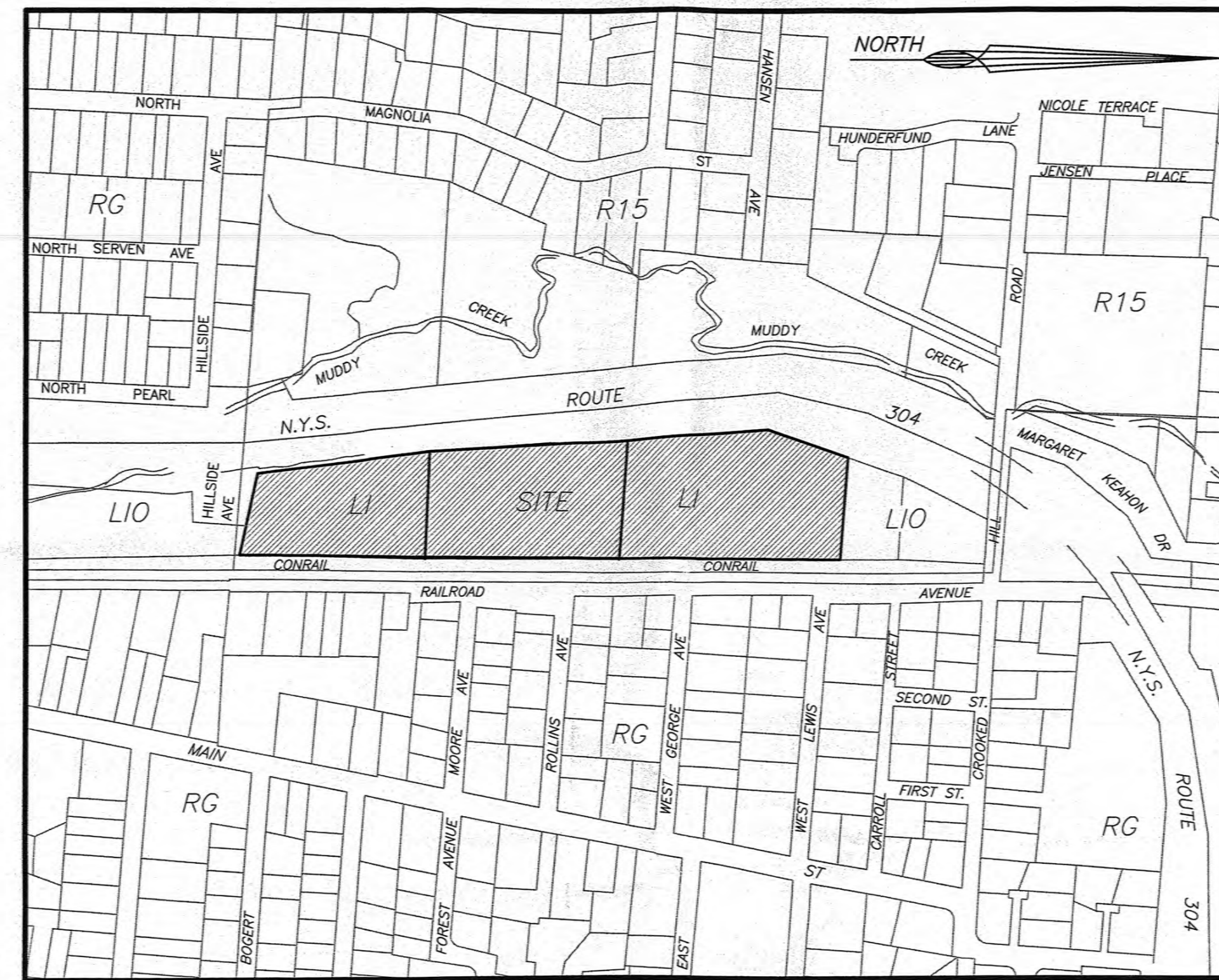
BROOKER ENGINEERING P.L.L.C.
76 LAFAYETTE AVENUE
SUFFERN, NEW YORK 10901
(845) 357-4411

LAND SURVEYOR:

JAY A. GREENWELL, PLS
85 LAFAYETTE AVENUE
SUFFERN, NEW YORK 10901
(845) 357-0830

LIST OF DRAWINGS

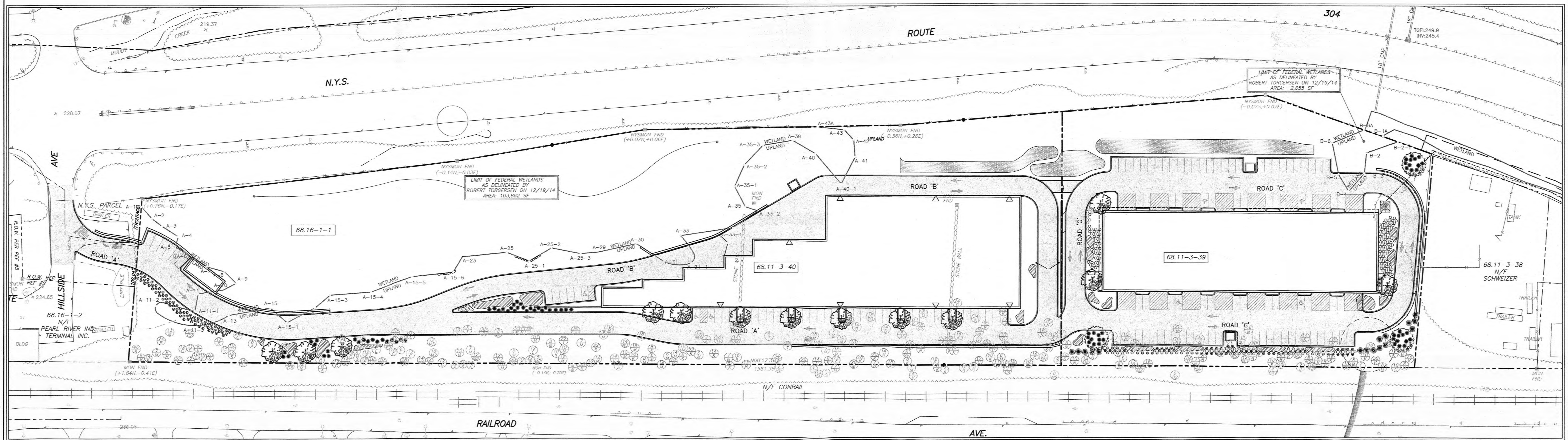
1. TITLE SHEET
1. LAYOUT PLAN
2. GRADING AND UTILITY PLAN (1 OF 2)
3. GRADING AND UTILITY PLAN (2 OF 2)
4. SOIL EROSION & SEDIMENT CONTROL PLAN
5. LANDSCAPING & LIGHTING PLAN
6. EXISTING CONDITION PLAN
7. ROAD PROFILES (1 OF 2)
8. ROAD PROFILES (2 OF 2)
9. DRAINAGE PROFILES
10. DRAINAGE AND SANITARY SEWER PROFILES
11. FORCE MAIN PROFILES
12. CONSTRUCTION DETAILS (1 OF 3)
13. CONSTRUCTION DETAILS (2 OF 3)
14. CONSTRUCTION DETAILS (3 OF 3)



VICINITY MAP
1"=400'

NOTES:

1. THIS IS A PLOT PLAN OF SECTION 68.11 BLOCK 1 LOT 39-40 AND SECTION 68.16 BLOCK 1 LOT 1 OF THE TOWN OF ORANGETOWN TAX MAP.
2. ZONING DISTRICT: LI
3. OWNER: ROUTE 304 LLC
75 MICHAEL ROBERTS COURT
PEARL RIVER, NEW YORK 10965
4. SCHOOL DISTRICT: PEARL RIVER
5. FIRE DISTRICT: PEARL RIVER
6. SEWER DISTRICT: ORANGETOWN
7. WATER DISTRICT: UNITED WATER
8. BOUNDARY AND TOPOGRAPHIC DATA TAKEN FROM AN ACTUAL FIELD SURVEY PREPARED BY JAY A. GREENWELL, PLS, DATED 1/29/07.
9. DATUM: NAD 83
10. AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF ANY WORK, INCLUDING THE INSTALLATION OF EROSION CONTROL DEVICES OR THE REMOVAL OF TREES AND VEGETATION, A PRE-CONSTRUCTION MEETING MUST BE HELD WITH THE TOWN OF ORANGETOWN DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING, SUPERINTENDENT OF HIGHWAYS AND THE OFFICE OF BUILDING CONSTRUCTION PLANNING ADMINISTRATION AND ENFORCEMENT. IT IS THE RESPONSIBILITY AND OBLIGATION OF THE PROPERTY OWNER TO ARRANGE SUCH A MEETING.
11. TREE PROTECTION: THE TREE PROTECTION AND PRESERVATION GUIDELINES ADOPTED PURSUANT TO SECTION 21-24 OF THE LAND DEVELOPMENT REGULATIONS OF THE TOWN OF ORANGETOWN WILL BE IMPLEMENTED IN ORDER TO PROTECT AND PRESERVE BOTH INDIVIDUAL SPECIMEN TREES AND BUFFER AREA WITH MANY TREES. STEPS THAT WILL BE TAKEN TO RESERVE AND PROTECT EXISTING TREES TO REMAIN ARE AS FOLLOWS:
A. NO CONSTRUCTION EQUIPMENT SHALL BE PARKED UNDER THE TREE CANOPY.
B. THERE WILL BE NO EXCAVATION OR STOCKPIILING OF EARTH UNDERNEATH THE TREES.
C. TREES DESIGNATED TO BE PRESERVED SHALL BE MARKED CONSPICUOUSLY ON ALL SIDES AT A 5 TO 10 FEET HEIGHT.
D. THE TREE PROTECTION ZONE FOR TREES DESIGNATED TO BE PRESERVED WILL BE ESTABLISHED BY ONE OF THE FOLLOWING METHODS:
• ONE (1) FOOT RADIUS FROM TRUNK PER INCH DBH
• DRIP LINE OF THE TREE CANOPY. THE METHOD CHOSEN SHOULD BE BASED ON PROVIDING THE MAXIMUM PROTECTION ZONE POSSIBLE A BARRIER OF SNOW FENCE OR EQUAL IS TO BE PLACED AND MAINTAINED ONE YARD BEYOND THE ESTABLISHED TREE PROTECTION ZONE, IF IT IS AGREED THAT THE TREE PROTECTION ZONE OF A SELECTED TREE MUST BE VIOLATED, ONE OF THE FOLLOWING METHODS MUST BE EMPLOYED TO MITIGATE THE IMPACT:
• LIGHT TO HEAVY IMPACTS - MINIMUM OF EIGHT INCHES OF WOOD CHIPS INSTALLED IN THE AREA TO BE PROTECTED. CHIPS SHALL BE REMOVED UPON COMPLETION OF WORK.
• LIGHT IMPACTS ONLY - INSTALLATION OF 1/2 INCH PLYWOOD OR BOARDS, OR EQUAL OVER THE AREA TO BE PROTECTED. THE BUILDER OR ITS AGENT MAY NOT CHANGE GRADE WITHIN THE TREE PROTECTION ZONE OF A PRESERVED TREE UNLESS SUCH GRADE CHANGE HAS RECEIVED APPROVAL FROM THE PLANNING BOARD. IF THE GRADE LEVEL IS TO BE CHANGED MORE THAN SIX INCHES, TREES DESIGNATED TO BE PRESERVED SHALL BE WELLED AND/OR PRESERVED IN A RAISED BED, WITH A TREE WELL HAVING A RADIUS OF THREE (3) FEET LARGER THAN THE TREE CANOPY.
12. ALL LANDSCAPING SHOWN ON THE SITE PLANS SHALL BE MAINTAINED IN A VIGOROUS GROWING CONDITION THROUGHOUT THE DURATION OF THE USE OF THIS SITE. ANY PLANTS NOT SO MAINTAINED SHALL BE REPLACED WITH NEW PLANTS AT THE BEGINNING OF THE NEXT GROWING SEASON IMMEDIATELY FOLLOWING GROWING SEASON.
13. PRIOR TO THE COMMENCEMENT OF ANY SITE WORK, INCLUDING THE REMOVAL OF TREES, THE APPLICANT SHALL INSTALL THE SOIL EROSION AND SEDIMENT CONTROL AS REQUIRED BY THE PLANNING BOARD. PRIOR TO THE AUTHORIZATION TO PROCEED WITH ANY PHASE OF THE SITE WORK, THE TOWN OF ORANGETOWN DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING (DEME) SHALL INSPECT THE INSTALLATION OF ALL REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES. THE APPLICANT SHALL CONTACT DEME AT LEAST 48 HOURS IN ADVANCE FOR AN INSPECTION.
14. THE CONTRACTOR'S TRAILER, IF ANY IS PROPOSED, SHALL BE LOCATED AS APPROVED BY THE PLANNING BOARD.
15. IF THE APPLICANT, DURING THE COURSE OF CONSTRUCTION, ENCOUNTERS SUCH CONDITIONS AS FLOOD AREAS, UNDERGROUND WATER, SOFT OR SILTY AREAS, IMPROPER DRAINAGE, OR ANY OTHER UNUSUAL CIRCUMSTANCES OR CONDITIONS NOT FORESEEN IN THE ORIGINAL PLANNING, SUCH CONDITIONS SHALL BE REPORTED IMMEDIATELY TO DEME. THE APPLICANT SHALL SUBMIT THEIR RECOMMENDATIONS AS TO THE SPECIAL TREATMENT TO BE GIVEN TO SUCH AREAS TO SECURE ADEQUATE, PERMANENT AND SATISFACTORY CONSTRUCTION. DEME SHALL INVESTIGATE THE CONDITION(S), AND SHALL EITHER APPROVE THE APPLICANT'S RECOMMENDATIONS TO CORRECT THE CONDITION(S), OR ORDER A MODIFICATION THEREOF. IN THE EVENT OF THE APPLICANT'S DISAGREEMENT WITH THE DECISION OF THE DEME, OR IN THE EVENT OF A SIGNIFICANT CHANGE RESULTING TO THE SUBDIVISION PLAN OR SITE PLAN OR ANY CHANGE THAT INVOLVES A WETLAND REGULATED AREA, THIS MATTER SHALL BE DECIDED BY THE AGENCY WITH JURISDICTION IN THAT AREA (I.E. WETLANDS - U.S. ARMY CORPS OF ENGINEERS).
16. PERMANENT VEGETATION COVER OF DISTURBED AREAS SHALL BE ESTABLISHED ON THE SITE WITHIN THIRTY (30) DAYS OF THE COMPLETION OF CONSTRUCTION.
17. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
18. IRON PINS OR MONUMENTS SHALL BE PLACED AT LOT CORNERS, AS SHOWN ON THE PLAN.
19. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239.6M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
20. THE DRAWINGS AND PROJECT ARE IN COMPLIANCE WITH STORMWATER MANAGEMENT PHASE II REGULATIONS.
21. A CERTIFICATION BY AN APPROPRIATE LICENSED OR CERTIFIED DESIGN PROFESSIONAL SHALL BE REQUIRED FOR ALL MATTERS BEFORE THE PLANNING BOARD INDICATING THAT THE DRAWINGS AND PROJECT ARE IN COMPLIANCE WITH STORMWATER MANAGEMENT PHASE II REGULATIONS.
22. MAINTENANCE OF THE DETENTION BASIN SHALL BE THE SELF RESPONSIBILITY OF THE OWNERS OF LOT #1 AND LOT #2. A LEGALLY BINDING MAINTENANCE AGREEMENT, INCLUDING PROVISIONS FOR ANY NECESSARY EASEMENTS, HAS BEEN EXECUTED AND FILED IN THE OFFICE OF THE ROCKLAND COUNTY CLERK AS INSTRUMENT ID #2010-0003244.
23. AT LEAST 14 DAYS PRIOR TO THE PLACING OF ANY ROAD SUB-BASE, THE APPLICANT SHALL PROVIDE THE TOWN OF ORANGETOWN SUPERINTENDENT OF HIGHWAYS AND DEME WITH A PLAN AND PROFILE OF THE GRADED ROAD TO BE PAVED IN ORDER THAT THESE DEPARTMENTS MAY REVIEW THE DRAWINGS CONFORMANCE TO THE APPROVED CONSTRUCTION PLANS AND THE TOWN STREET SPECIFICATION.
24. A VARIANCE FOR ACCESS BY RIGHT-OF-WAY FOR LOT #2 WAS GRANTED BY THE ZBA AS RESOLUTION #08-08 ON 1/16/08.
25. ALL STORMWATER AND SANITARY SEWER FACILITIES ON THE PROJECT SITE ARE PRIVATE.
26. THERE SHALL BE NO CHANGE TO THE GRADE WITHIN THE RIGHT-OF-WAY OF ROUTE 304 AS PART OF THE INSTALLATION OF UTILITIES.
27. ALL WETLAND AND WETLAND BUFFER AREAS TO BE PRESERVED SHALL BE MARKED IN THE FIELD WITH A SNOW FENCE PRIOR TO ANY CLEARING OR CONSTRUCTION. LONG TERM USE RESTRICTIONS REGARDING THESE AREAS ARE CONTAINED WITHIN A COVENANT FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE AS INSTRUMENT #2010-0003245. ADDITIONALLY, MAINTENANCE, RESPONSIBILITIES AND USE RESTRICTIONS REGARDING PROPOSED UTILITIES/INDEMNITIES/EASEMENTS, COMMON IMPROVEMENTS, CONSERVATION EASEMENT, AND DETENTION BASIN ARE CONTAINED WITHIN A COVENANT FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE IN INSTRUMENT #2010-0003244.
28. MAP REFERENCE: "SUBDIVISION OF PROPERTY FOR HILLSIDE COMMERCIAL PARK" PREPARED BY JAY A. GREENWELL, PLS AND FILED IN THE OFFICE OF THE ROCKLAND COUNTY CLERK ON 10/12/10 AS MAP #5120.

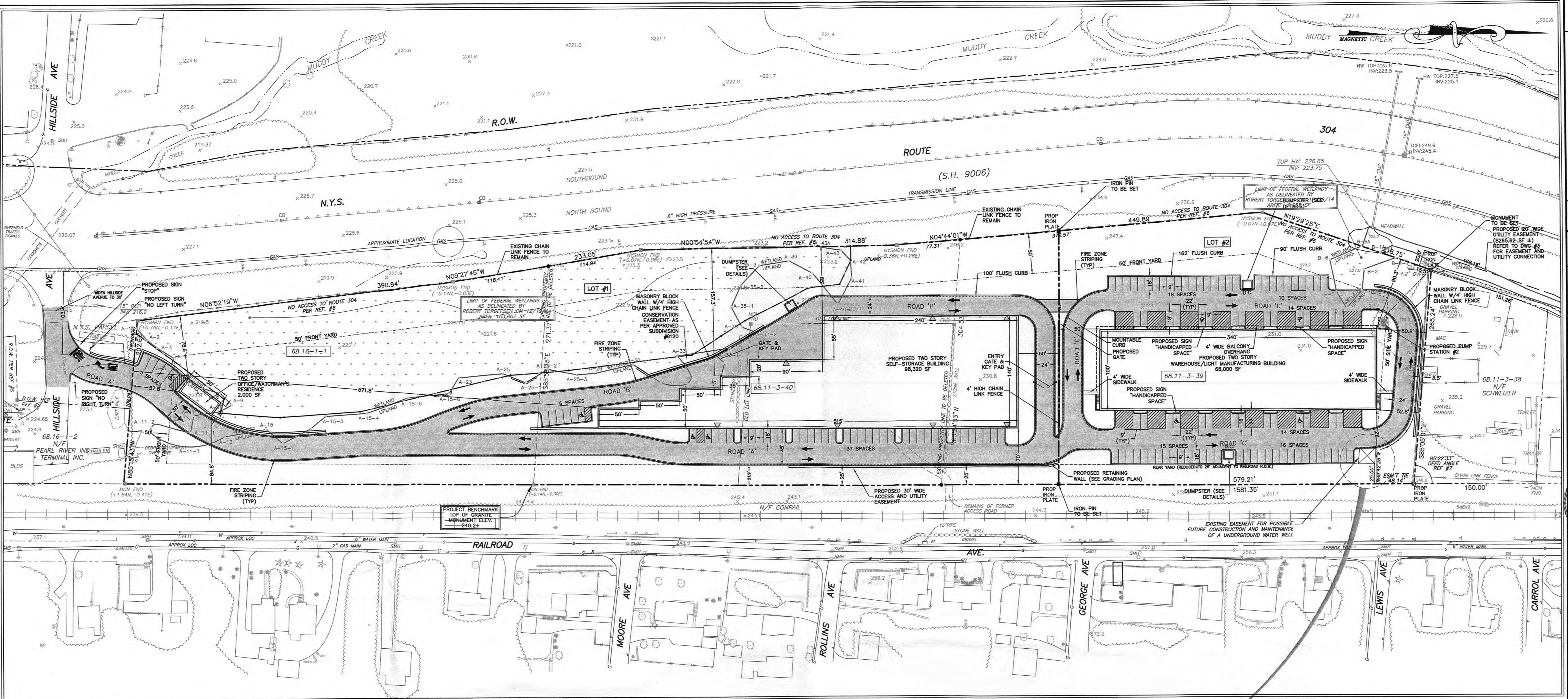


NO.	DATE	DESCRIPTION
18	10/22/15	BUILDING REVISION
17	9/21/15	GENERAL REVISIONS
16	3/30/15	AS PER DRAINAGE REVIEW COMMENTS
15	3/9/15	AS PER DRAINAGE REVIEW COMMENTS
		DESCRIPTION

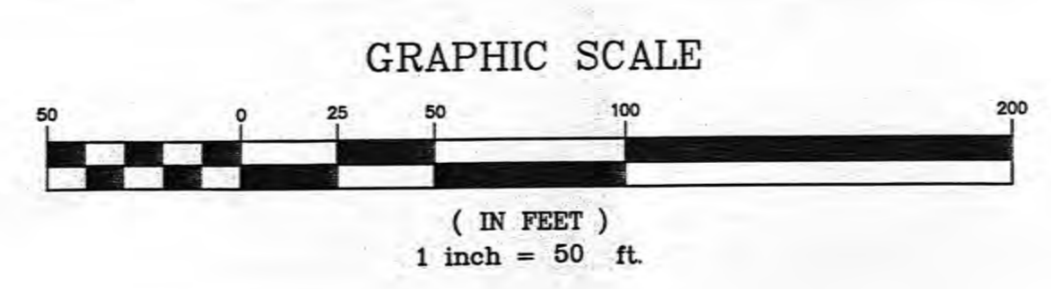
BROOKER ENGINEERING, PLLC
PROFESSIONAL ENGINEERS
LAND USE - DEVELOPMENT - STRUCTURAL - HYDROLOGICAL - SURVEYING
76 LAFAYETTE AVENUE
SUFFERN, NEW YORK 10901
PHONE: (845) 357-4411 FAX: (845) 357-0830

HILLSIDE COMMERCIAL PARK
TOWN OF ORANGETOWN
ROCKLAND COUNTY, NEW YORK

Job number: 57007
Drawn by: JO
Checked by: SS
Original Date: 08/29/07
Last Revised Date: 10/22/15
Scale: N.T.S.
Drawing Number: T



- NOTES:**
- THIS IS A PLAT PLAN OF SECTION 68.11 BLOCK 1 LOT 39-40 AND SECTION 68.16 BLOCK 1 LOT 1 OF THE TOWN OF ORANGETOWN TAX MAP.
 - ZONING DISTRICT: LI
 - OWNER: ROUTE 304 LLC, 75 MICHAEL ROBERTS COURT, PEARL RIVER, NEW YORK 09862
 - SCHOOL DISTRICT: PEARL RIVER
 - FIRE DISTRICT: PEARL RIVER
 - SEWER DISTRICT: ORANGETOWN
 - WATER DISTRICT: PEARL RIVER
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 - LIGHT IMPACTS ONLY - INSTALLATION OF 1/2" MINIMUM PLYWOOD OR BOARDS, OR EQUAL OVER THE AREA TO BE PROTECTED. THE BARRIER OR ITS AGENT MAY NOT CHANGE GRADE WITHIN THE TREE PROTECTION ZONE OF A PRESERVED TREE UNLESS SUCH GRADE CHANGE HAS RECEIVED APPROVAL FROM THE PLANNING BOARD. IF THE GRADE LEVEL IS TO BE CHANGED MORE THAN SIX INCHES, TREES DESIGNATED TO BE PRESERVED SHALL BE WELLED AND/OR PRESERVED IN A RAISED BED WITH A RADIUS OF HAVING A RADIUS OF THREE (3) FEET LARGER THAN THE TREE CANOPY.
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 - THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239.6M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
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 - A CERTIFICATION BY AN APPROPRIATE LICENSED OR CERTIFIED DESIGN PROFESSIONAL SHALL BE REQUIRED FOR ALL MATTERS BEFORE THE PLANNING BOARD INDICATING THAT THE DRAWINGS AND PROJECT ARE IN COMPLIANCE WITH STORMWATER MANAGEMENT PHASE II REGULATIONS.
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 - AT LEAST 14 DAYS PRIOR TO THE PLACING OF ANY ROAD SUB-BASE, THE APPLICANT SHALL PROVIDE THE TOWN OF ORANGETOWN SUPERINTENDENT OF HIGHWAYS AND DEME WITH A PLAN AND PROFILE OF THE GRADED ROAD TO BE PAVED IN ORDER THAT THESE DEPARTMENTS MAY REVIEW THE DRAWINGS CONFORMANCE TO THE APPROVED CONSTRUCTION PLANS AND THE TOWN STREET SPECIFICATION.
 - VARIANCE FOR "ACCESS BY RIGHT" OF WAY FOR LOT #2 WAS GRANTED BY THE ZBA AS RESOLUTION #08-06 ON 1/16/08.
 - ALL STORMWATER AND SANITARY SEWER FACILITIES ON THE PROJECT SITE ARE PRIVATE.
 - CHRE SHALL BE NO CHANGING TO THE GRADE-WAY FOR LOT #2 AS PART OF THE INSTALLATION OF UTILITIES.
 - ALL WETLAND AND WETLAND BUFFER AREAS TO BE PRESERVED SHALL BE MARKED IN THE FIELD WITH A SNOW FENCE PRIOR TO ANY CLEARING OR CONSTRUCTION. LONG TERM USE RESTRICTIONS REGARDING THESE AREAS ARE CONTAINED WITHIN A COVENANT FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE AS INSTRUMENT #2010-00035244. ADDITIONALLY, MAINTENANCE RESPONSIBILITIES AND USE RESTRICTIONS REGARDING PROPOSED UTILITIES/INGRESS/EGRESS EASEMENTS, COMMON IMPROVEMENTS, CONSERVATION EASEMENT, AND DETENTION BASIN ARE CONTAINED WITHIN A COVENANT FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE IN INSTRUMENT #2010-00035244.
 - MAP REFERENCE: "SUBDIVISION OF PROPERTY FOR HILLSIDE COMMERCIAL PARK" PREPARED BY JAY A. GREENWELL, PLS AND FILED IN THE OFFICE OF THE ROCKLAND COUNTY CLERK ON 10/12/10 AS MAP #8120.

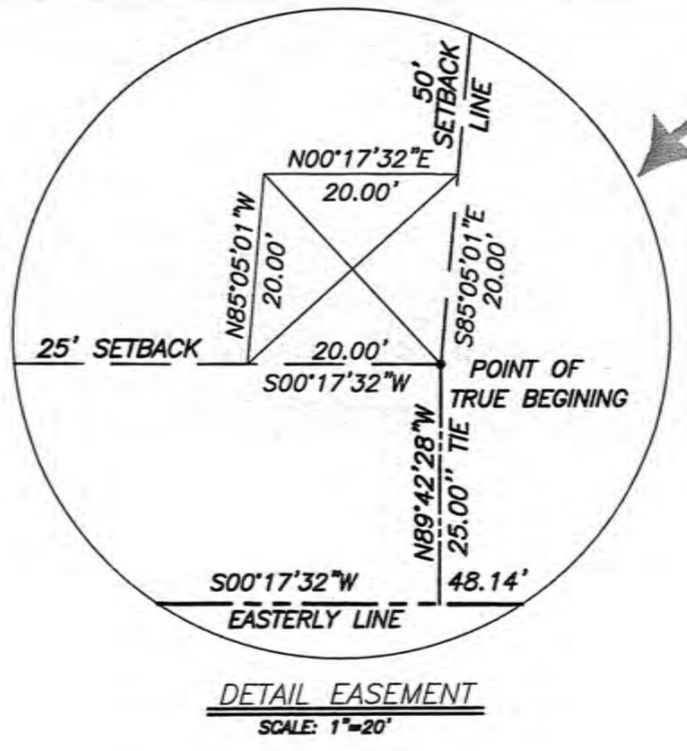


BULK TABLE OF REQUIREMENTS LI ZONING DISTRICT (GROUP "QQ")

DESCRIPTION	MAXIMUM FLOOR AREA RATIO	MINIMUM LOT AREA (SQ FEET)	MINIMUM LOT WIDTH (FEET)	MINIMUM STREET FRONTAGE (FEET)	REQUIRED FRONT YARD (FEET)	REQUIRED SIDE YARD (FEET)	REQUIRED TOTAL BOTH SIDE YARDS (FEET)	REQUIRED REAR YARD (FEET)	MAXIMUM LAND COVERAGE (PERCENT)	MAXIMUM BUILDING HEIGHT PER FOOT OF DISTANCE FROM LOT LINE
REQUIRED	0.50	2 ACRES	150	150	50	50	100	50	80	6 INCHES
PROPOSED - LOT #1	0.323	6.99 ACRES	1144	1246.45	85	50	NA	70	39	6 INCHES
PROPOSED - LOT #2	0.483	3.23 ACRES	449	470	90.3	50	102.8	92	63	6 INCHES

PARKING CALCULATION DATA

LOT	USE	REQUIREMENT	SPACES REQUIRED	SPACES PROVIDED
LOT #1	WAREHOUSE	1 SPACE PER 2 EMPLOYEES OR 300 SQUARE FEET OF GROSS FLOOR AREA	NUMBER OF EMPLOYEES = 2 2 / 2 = 1 => 1 SPACE REQ'D	43 SPACES
	WATCHMAN'S RESIDENCE	1 SPACE PER 1/2 DWELLING UNIT	2 SPACES	5 SPACES
LOT #2	WAREHOUSE/LIGHT MANUFACTURING	1 SPACE PER 2 EMPLOYEES OR 300 SQUARE FEET OF GROSS FLOOR AREA	NUMBER OF EMPLOYEES = 132 132 / 2 = 66 => 66 SPACES REQ'D	102 SPACES



LEGEND

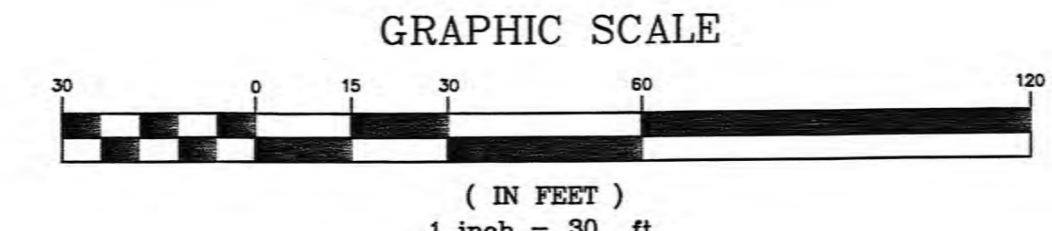
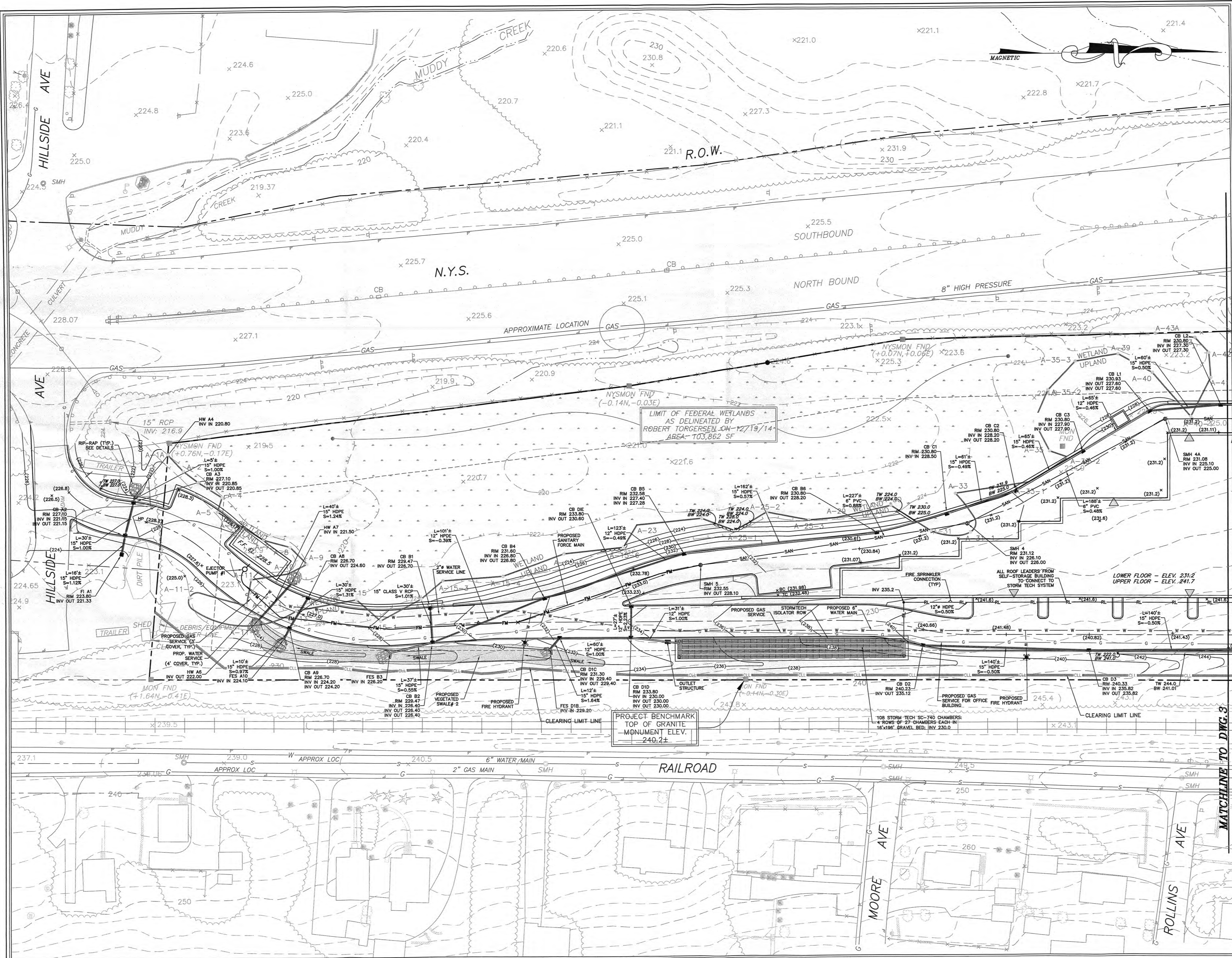
EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
CURB INLET	CURB INLET
FIELD INLET	FIELD INLET
OUTLET STRUCTURE	OUTLET STRUCTURE
DRAINAGE MANHOLE	DRAINAGE MANHOLE
HEADWALL	HEADWALL
SANITARY SEWER MANHOLE	SANITARY SEWER MANHOLE
UTILITY POLE	UTILITY POLE
FIRE HYDRANT	FIRE HYDRANT
WATER MAIN	WATER MAIN
GAS LINE	GAS LINE
STORM DRAIN LINE	STORM DRAIN LINE
CONCRETE RETAINING WALL	CONCRETE RETAINING WALL
BUILDING LINE	BUILDING LINE
EDGE OF PAVEMENT	EDGE OF PAVEMENT
CONTOUR MAJOR	CONTOUR MAJOR
CONTOUR MINOR	CONTOUR MINOR
SPOT ELEVATION	SPOT ELEVATION
TOP OF WALL ELEVATION	TOP OF WALL ELEVATION
BOTTOM OF WALL ELEVATION	BOTTOM OF WALL ELEVATION
FIRST FLOOR ELEVATION	FIRST FLOOR ELEVATION
WETLAND	WETLAND
PAVEMENT	PAVEMENT
GRAVEL PATH	GRAVEL PATH

BROKER ENGINEERING, PLLC
 PROFESSIONAL ENGINEERS
 LAND USE - DEVELOPMENT - STRUCTURAL - HYDROLOGICAL - SURVEYING
 78 LAFAYETTE AVENUE
 SUITEREN, NEW YORK 10801
 PHONE: (914) 351-4411 FAX: (914) 351-1888

HILLSIDE COMMERCIAL PARK
 TOWN OF ORANGETOWN
 ROCKLAND COUNTY, NEW YORK
 LAYOUT PLAN

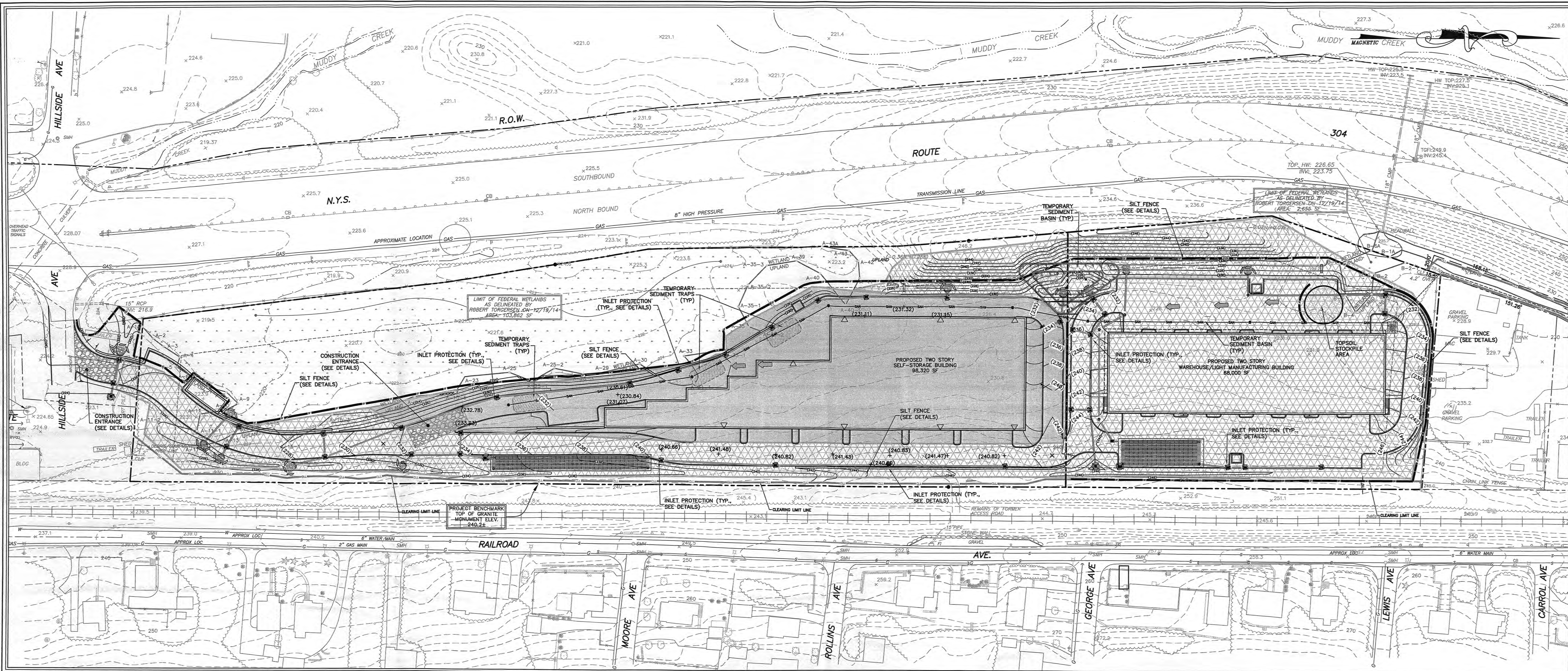
REV.	DESCRIPTION	DATE
10/22/15	BUILDING REVISION	10/22/15
9/21/15	GENERAL REVISIONS	9/21/15
3/30/15	AS PER DRAINAGE REVIEW COMMENTS	3/30/15
3/9/15	AS PER DRAINAGE REVIEW COMMENTS	3/9/15

Job number: 57007
 Drawn by: S.S.
 Checked by: S.S.
 Original Date: 08/29/07
 Last Revised Date: 10/22/15
 Scale: 1" = 50'
 Drawing Number: 1



- GENERAL NOTES:
1. THERE ARE NO STORMWATER "HOT SPOT" USES PRESENTLY PROPOSED AT THIS SITE. ANY FUTURE "HOT SPOT" USES ON THIS PROPERTY, AS DEFINED IN THE NYSDEC STORMWATER MANAGEMENT DESIGN MANUAL, MUST COMPLY WITH ALL APPLICABLE WATER QUALITY REQUIREMENTS FOR THE "HOT SPOT" AS SPECIFIED IN THE NYSDEC STORMWATER MANAGEMENT DESIGN MANUAL.
 2. FOR GRADING AND UTILITY LEGEND SEE DRAWING 3.

BROOKER ENGINEERING, PLLC PROFESSIONAL ENGINEERS LAND USE DEVELOPMENT - STRUCTURAL - HYDROLOGICAL - SURVEYING 76 LAFAYETTE AVENUE 65 RAMAPO VALLEY ROAD ROCKLAND COUNTY, NEW YORK 10986 PHONE: (914) 937-1111 FAX: (914) 937-1199		
HILLSIDE COMMERCIAL PARK TOWN OF ORANGETOWN ROCKLAND COUNTY, NEW YORK GRADING AND UTILITY PLAN (1 OF 2)		
Job number:	57007	
Drawn by:	A.P.	
Checked by:	S.S.	
Original Date:	08/29/07	
Last Revised Date:	10/22/15	
Scale:	1" = 30'	
Drawing Number:	2	
REV.	DATE	DESCRIPTION
18	10/22/15	BUILDING REVISION
17	9/21/15	GENERAL REVISIONS
16	3/30/15	AS PER DRAINAGE REVIEW COMMENTS
15	3/9/15	AS PER DRAINAGE REVIEW COMMENTS

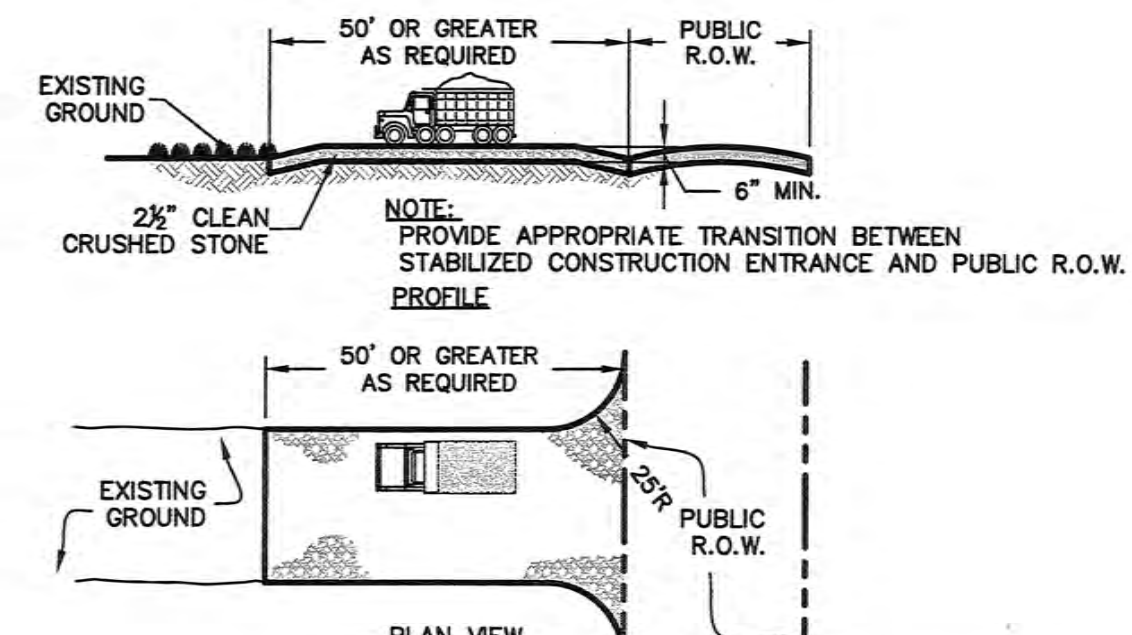


SOIL EROSION AND SEDIMENT CONTROL NOTES

- DESCRIPTION OF WORK**
PROVIDE ALL MEANS NECESSARY TO INSTALL, INSPECT, MAINTAIN, AND REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO MINIMIZE THE EROSION AND UNSPECIFIED TRANSPORT OF SOIL FROM THE SITE.
- QUALITY ASSURANCE**
A. GENERAL:
I. IN ACCORDANCE WITH THE DRAWINGS OR NEW YORK STATE GUIDELINES FOR URBAN EROSION & SEDIMENT CONTROL, AUGUST 2005 (N.Y. GUIDELINES), WHICHEVER IS STRICTER.
II. GRADE AND MAINTAIN SITE AT ALL TIMES SUCH THAT ALL STORM WATER RUNOFF FROM DISTURBED AREAS IS DIVERTED TO SOIL EROSION AND SEDIMENTATION CONTROL FACILITIES.
III. NO CHANGES TO THE SOIL EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE MADE WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE.
IV. NO MORE THAN 5 ACRES OF SOIL, NOT PROTECTED BY EROSION AND SEDIMENTATION CONTROL MEASURES, SHALL BE DISTURBED AT ANY TIME.
V. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS RELATING TO THE PREVENTION AND ABATEMENT OF POLLUTION.
VI. THE MUNICIPAL ENGINEER MAY REQUIRE ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES TO MITIGATE UNFORESEEN SILTATION.
B. PRODUCT STOCKPILING:
STOCKPILES OF STABILIZATION MEASURES SUCH AS HAYBALES AND MULCH SHALL BE MAINTAINED AT SITE FOR USE IN STABILIZING DISTURBED AREAS IN ADVANCE OF SEVERE WEATHER CONDITIONS.
- WORK SCHEDULE**
A. GENERAL:
INSTALL AND REMOVE MEASURES AS NOTED IN THE "CONSTRUCTION SEQUENCE" NARRATIVE AND PLANS. THE MEASURES SHALL BE MAINTAINED UNTIL PERMANENT PROTECTION OF THE CONTRIBUTING WATERSHED IS APPROVED BY THE OWNER'S REPRESENTATIVE. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
B. INSPECTIONS:
INSPECT MEASURES AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A 0.5 INCH OR GREATER STORM EVENT. STABILIZED AREAS WILL BE INSPECTED MONTHLY UNTIL THE ENTIRE SITE IS STABILIZED. INSPECT DAILY SEDIMENT BARRIERS LOCATED DOWNGRADE OF ROCK RIPPING/BLASTING ACTIVITIES.
C. MAINTENANCE:
COMPLETE MAINTENANCE WITHIN 7 CALENDAR DAYS OF DETERMINING ITS NEED.
D. STABILIZATION/PLANTING:
TEMPORARILY OR PERMANENTLY STABILIZE WITHIN 24 HOURS AFTER THE END OF CONSTRUCTION ACTIVITIES IN AN AREA UNLESS THERE IS SNOW COVER OR CONSTRUCTION ACTIVITIES WILL RESUME WITHIN 21 DAYS.
- PRODUCTS AND EXECUTION**
A. STABILIZED CONSTRUCTION ENTRANCE:
THE FILTER FABRIC SHALL BE MIRAFI 600X OR EQUAL. THE CONTRACTOR SHALL KEEP THE ROADWAYS WITHIN THE PROJECT CLEAR OF SOIL AND DEBRIS AND IS RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF CONSTRUCTION.
B. SILT FENCE:
SILT FENCE FABRIC SHALL BE MIRAFI 100X OR EQUAL. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD, A MINIMUM 3/4" DIAMETER LONG AND TWO INCHES SQUARE. METAL POSTS SHALL BE STANDARD T AND U SECTION WEIGHING NOT LESS THAN ONE POUND PER LINEAR FOOT. WIRE FENCE BACKING SHALL BE A MINIMUM 1/4" GAGE WITH A MAXIMUM SIX INCH MESH OPENING AND SECURELY ATTACHED TO FENCE POSTS. POSTS SHALL EXTEND A MINIMUM OF 16 INCHES INTO THE GROUND.
C. DUST CONTROL:
TREAT ALL DISTURBED AREAS WITHIN 500 FEET OF AN INHABITED DWELLING AS NECESSARY TO PROVIDE DUST CONTROL. CONFORM TO ALL LOCAL AND STATE REGULATIONS GOVERNING THESE ACTIVITIES.
D. CONSTRUCTION VEHICLES:
WASH DOWN ALL CONSTRUCTION VEHICLES AND COVER WITH TARPULINS AS NECESSARY TO PREVENT VEHICLE TRANSPORT OF SEDIMENT OFF-SITE. DIRECT WASTEWATER FROM WASH DOWN OPERATIONS TO A SEDIMENT TRAP.
E. ROCK REMOVAL:
ROCK RIPPING SHALL BE USED WHEREVER POSSIBLE IN PLACE OF BLASTING. OBSERVATIONS MADE DURING TEST BLASTING SHALL BE USED IN THE DEVELOPMENT OF A CONTROLLED ROCK REMOVAL PROGRAM.
F. TEMPORARY SOIL AND ROCK STOCKPILING:
MATERIALS SHALL NOT BE STOCKPILED ON STEEP SLOPES, DRAINAGE SWALES, WETLAND AREAS, OR WETLAND SETBACK AREAS. STOCKPILES SHALL BE SURROUNDED WITH SILT FENCE AND REVEGETATED FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES.
- MAINTENANCE**
A. REPAIR OR REPLACE ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES.
B. STABILIZED CONSTRUCTION ENTRANCE: TOP DRESS WITH ADDITIONAL AGGREGATE AS REQUIRED TO PREVENT TRACKING OF SEDIMENT OFF OF THE SITE.
C. SILT FENCE: REMOVE CAPTURED SEDIMENT WHEN DEPTH EXCEEDS 1/3 THE HEIGHT OF THE FENCE.

SOIL EROSION AND SEDIMENT CONTROL - CONSTRUCTION SEQUENCE

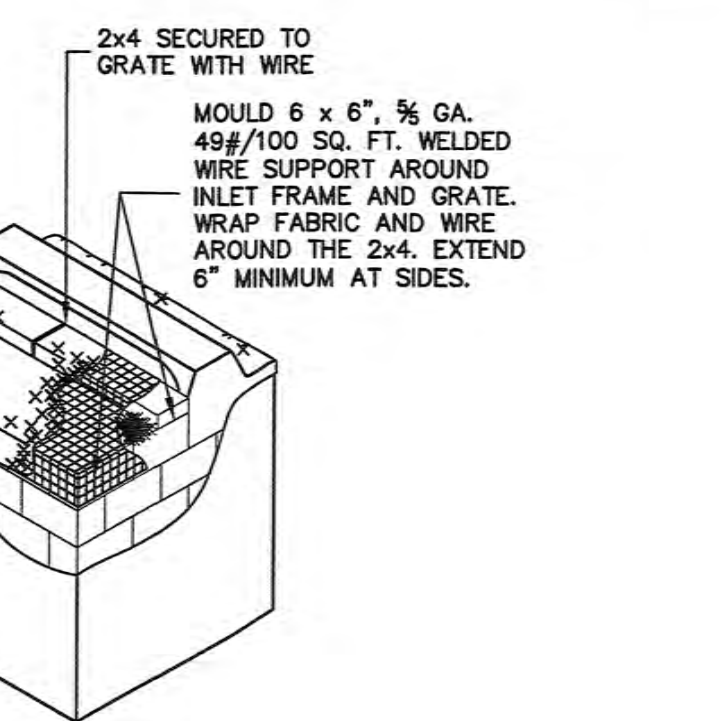
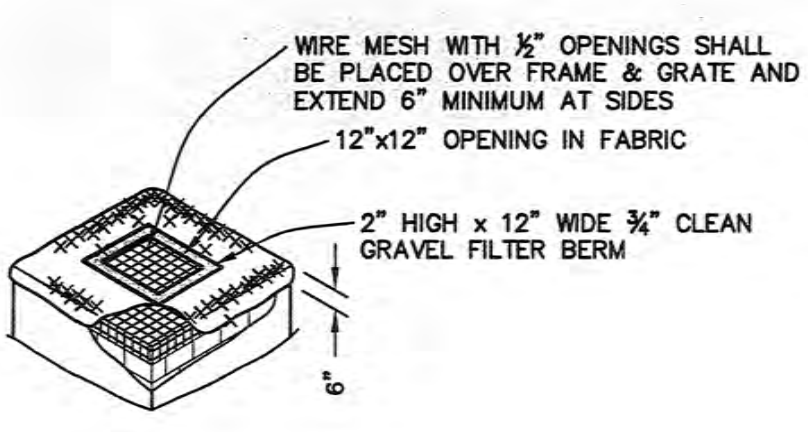
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATIONS AND INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND/OR STABILIZED.
- DISTURBANCE AREA SHALL BE LIMITED TO NO MORE THAN FIVE (5) ACRES AT ANY TIME.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AS INDICATED ON PLAN.
- INSTALL SILT FENCE AND/OR INLET PROTECTION BARRIERS DOWN SLOPE OF ALL AREAS TO BE DISTURBED AND DOWN SLOPE OF ALL AREAS DESIGNATED FOR TOPSOIL STOCKPILING.
- CONSTRUCT BERM, TEMPORARY SWALES, TEMPORARY SEDIMENTATION BASINS AND PIPES AS NECESSARY TO DIRECT RUNOFF TO TEMPORARY SEDIMENTATION ENTRAPMENT AREAS.
- CLEAR EXISTING TREES, VEGETATION AND EXISTING STRUCTURES FROM AREAS TO BE FILLED OR EXCAVATED. STRIP AND STOCKPILE TOPSOIL FROM THE AREAS TO BE DISTURBED. SEED STOCKPILED TOPSOIL WITH TEMPORARY EYE GRASS COVER.
- PERFORM EXCAVATION AND FILL FOR ACCESS ROAD TO NORTHERLY PARCEL TO BRING LAND TO DESIRED GRADE.
- ANY DISTURBED AREAS TO REMAIN BARE SHOULD BE SEED WITH TEMPORARY RYE GRASS.
- INSTALL UNDERGROUND UTILITIES, MANHOLES AND CATCH BASINS. GRATES OF CURB AND FIELD INLETS SHOULD BE LEFT AT ELEVATIONS WHICH PERMIT PROPER COLLECTION OF SURFACE RUNOFF.
- INSTALL INLET PROTECTION BARRIERS AROUND CURB AND FIELD INLETS.
- CONSTRUCT CURBS AND INSTALL BASE AND BINDER COURSES OF PAVED AREAS. RAISE GRATES OF THE CURB AND FIELD INLETS ACCORDINGLY.
- COMPLETE THE GRADING FOR BUILDINGS AND PARKING LOTS.
- INSTALL SURFACE COURSE OF PAVEMENT, RAISE GRATES OF CURBS AND FIELD INLETS TO FINAL ELEVATION.
- UPON COMPLETION OF CONSTRUCTION, ALL DISTURBED AREAS ARE TO BE SEED. ALL TEMPORARY DEVICES SHALL BE REMOVED AND THE AFFECTED AREAS REGRADED, PLANTED OR TREATED IN ACCORDANCE WITH THE APPROVED SITE PLANS.



CONSTRUCTION SPECIFICATIONS

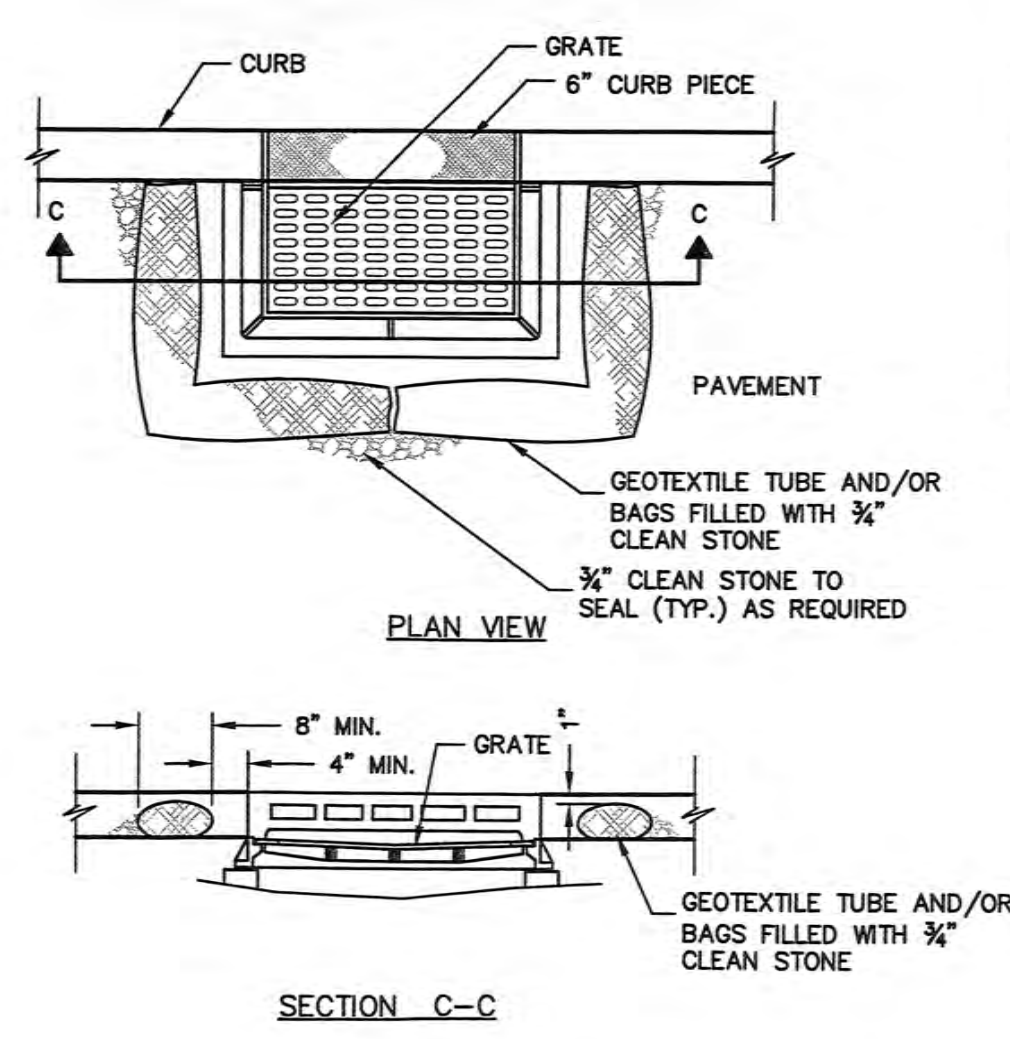
- STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCURS, TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE SITE.
- GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTAIN BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT SPILLED, DROPPED, WASHED OR TRACED ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

DETAIL-FIELD INLET PROTECTION



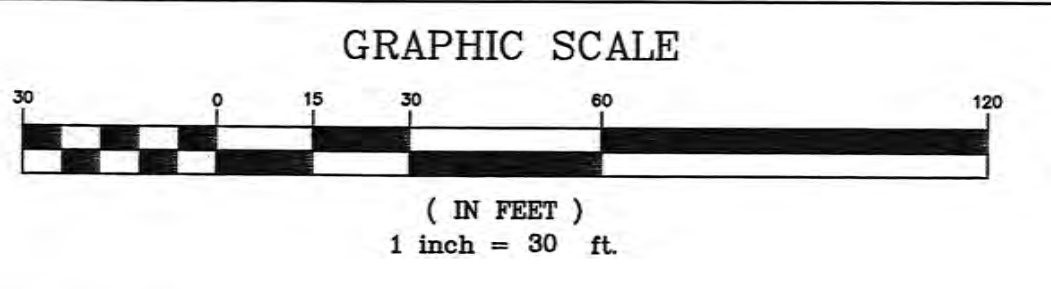
DETAIL-HAYBALE RING

- NOTES:**
- CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
 - CONTRACTOR TO REMOVE FABRIC AND MESH JUST PRIOR TO PAVING.
 - IF BOTTOM OF ROADWAY IS BELOW TOP OF INLET GRATE, CONSTRUCT PROPERLY FILTERED OPENING(S) IN INLET WALL TO ALLOW PASSAGE OF WATER.
 - THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.

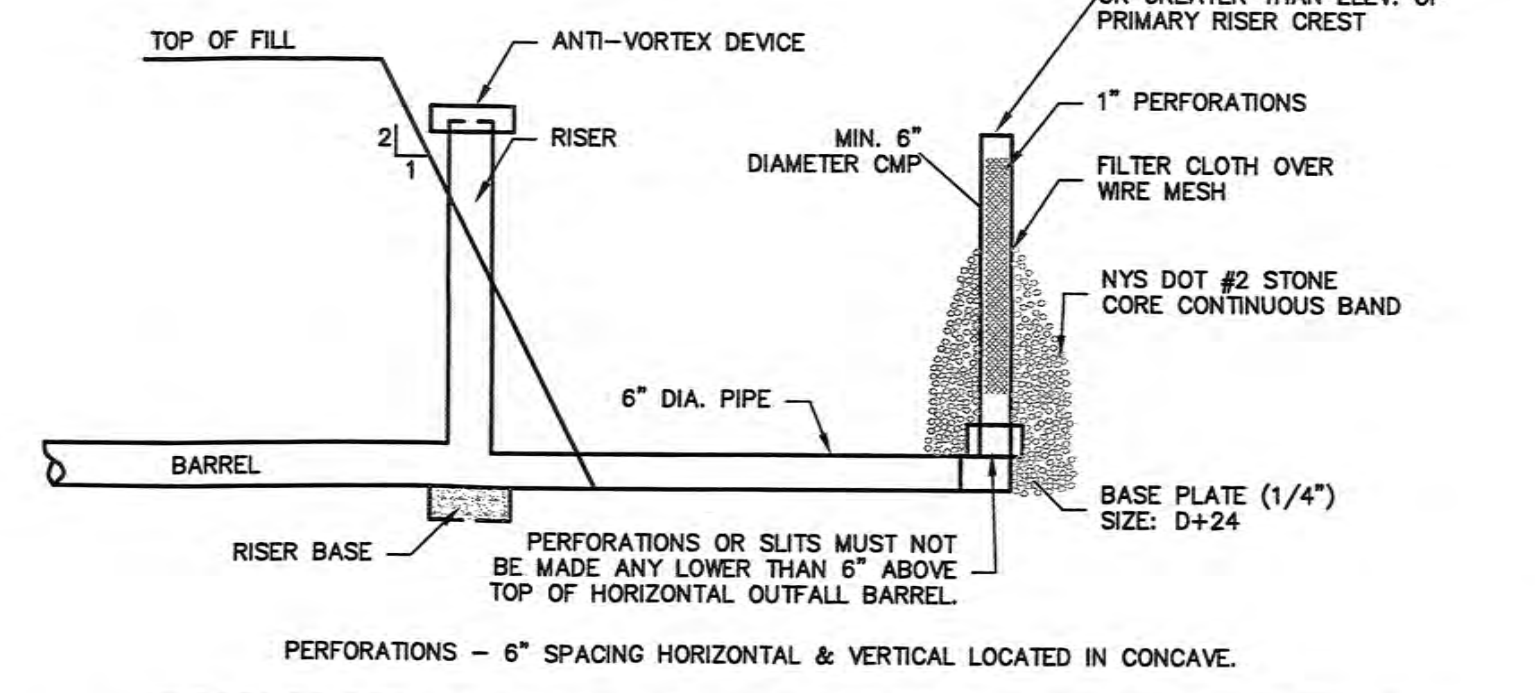


LEGEND

- INLET PROTECTION
- SILT FENCE
- CLEARING LIMIT LINE
- CONSTRUCTION ENTRANCE
- PHASE I
- PHASE II



SILT FENCE DETAIL



SEDIMENT TRAP DEWATERING DETAIL



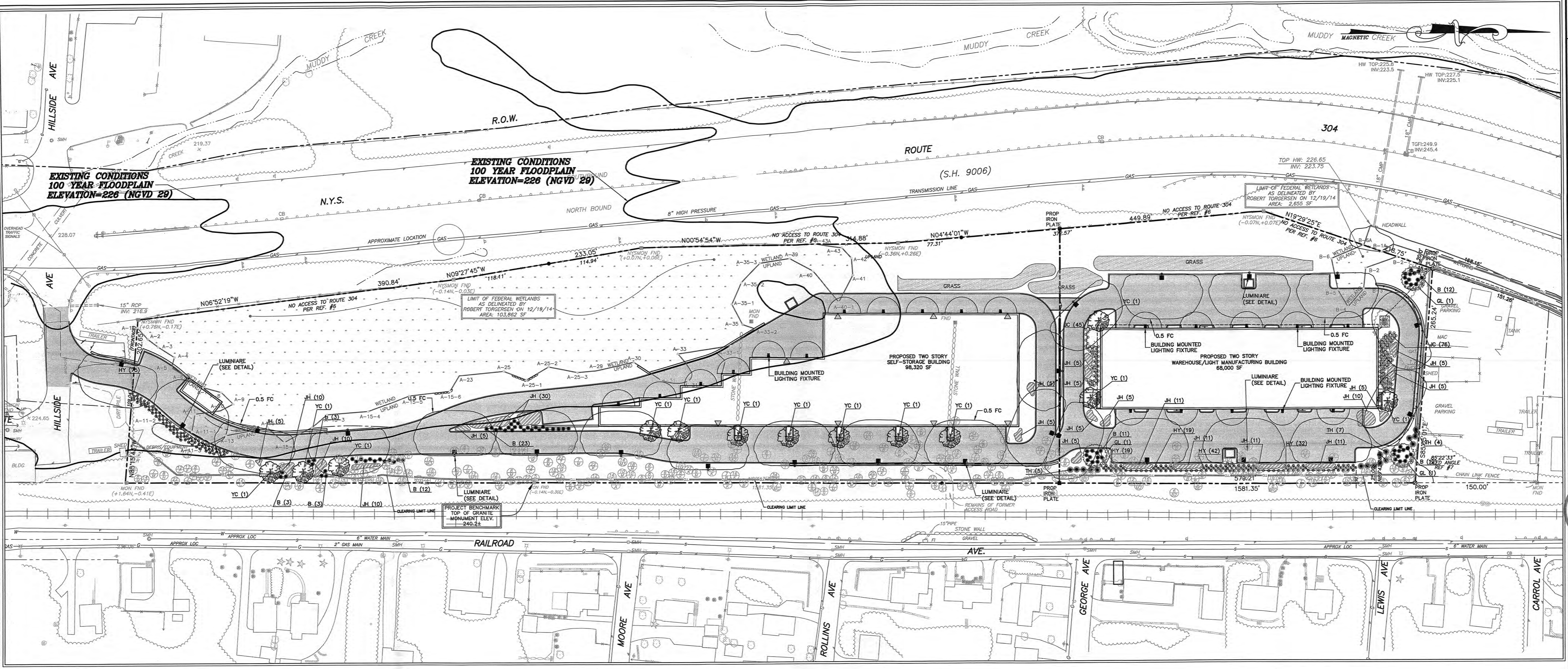
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17	GENERAL REVISIONS	9/21/15				
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REV.	DESCRIPTION	DATE	REV.	DATE	DESCRIPTION	DATE

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PROFESSIONAL ENGINEERS
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78 LAFAVETTE AVENUE
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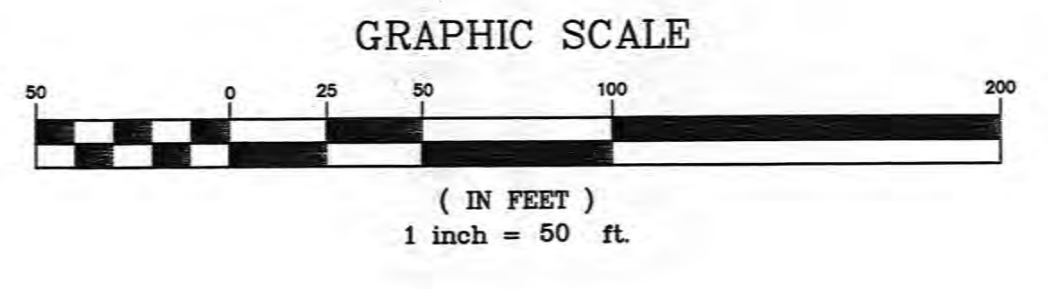
HILLSIDE COMMERCIAL PARK
TOWN OF ORANGETOWN
ROCKLAND COUNTY, NEW YORK

SOIL EROSION & SEDIMENT CONTROL

Job number: 57007
Drawn by: A.P. S.S.
Checked by: A.P. S.S.
Original Date: 08/29/07
Last Revised Date: 10/22/15
Scale: 1" = 50'
Drawing Number: 4



PLANT KEY				
SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE
GL	3	GREENSPIRE LINDEN	TILIA CORDATA GREENSPIRE	2 1/2"-3" cal., B&B
YC	14	YOSHINO FLOWERING CHERRY	PRUNUS YEODENSIS	2'-2 1/2" cal., B&B
JH	174	ANDORA COMPACT JUNIPER	JUNIPERUS HORIZONTALIS "PLUMOSA COMPACTA"	2 1/2" cal., B&B
JC	121	SEA GREEN JUNIPER	JUNIPERUS CHINENSIS "SEA GREEN"	3" cal., 3' OC
TH	16	HICKS YEW	TAXUS HICKS	2 1/2" cal., 3' OC
HY	177	HATFIELD YEW	TAXUS MEDIA HATFIELDI	2 1/2"-3" ht. B&B @ 2C
B	79	WINTER GEM BOXWOOD	BOXUS MICROPHYLLA "WINTER GEM"	#3 CONTAINER @ 24" OC



PLANTING NOTES:

DETENTION BASIN:
 1) PLACE A MINIMUM OF 6" OF TOPSOIL IN THE DETENTION BASIN. UTILIZE PREVIOUSLY STRIPPED TOPSOIL FROM OTHER PREVIOUSLY DISTURBED AREAS OF THE SITE.
 2) LANDSCAPE THE PERMANENT DETENTION BASIN WITH THE FOLLOWING MIX OF PLANTS:

AREA A - AROUND THE BORDER OF THE BASIN, FROM AN ELEVATION OF 12" ABOVE THE BOTTOM AND A DISTANCE OF 10 FEET HORIZONTALLY AROUND THE BANKS OF THE BASIN. PLANT THE FOLLOWING SHRUBS IN GROUPS OF 5 TO 7 WITH SPACING OF APPROXIMATELY 10 FEET. SHRUBS TO BE 18"-24" IN HEIGHT, IN A #2 POT, FURNISH AND PLANT A TOTAL OF 15 OF EACH SPECIES AS DIRECTED AROUND THE BASIN:
 CORNUS AMOMIUM - SILKY DOGWOOD
 CORNUS SERICEA - REDOSIER DOGWOOD
 VIBURNUM DENTATUM - ARROWWOOD
 VIBURNUM VIBURNUM
 CLETHRA ANIFOLIA - SUMMERSWEET

AREA B - ENTIRE BOTTOM AREA OF THE BASIN TO 12 INCHES ABOVE. PLANT WITH THE FOLLOWING SEED MIX:
 ERNST RETENTION BASIN FLOOR SEEDING MIX FOR WILDLIFE AND PLANT DIVERSITY. APPLICATION RATE - 10 LBS PER ACRE.

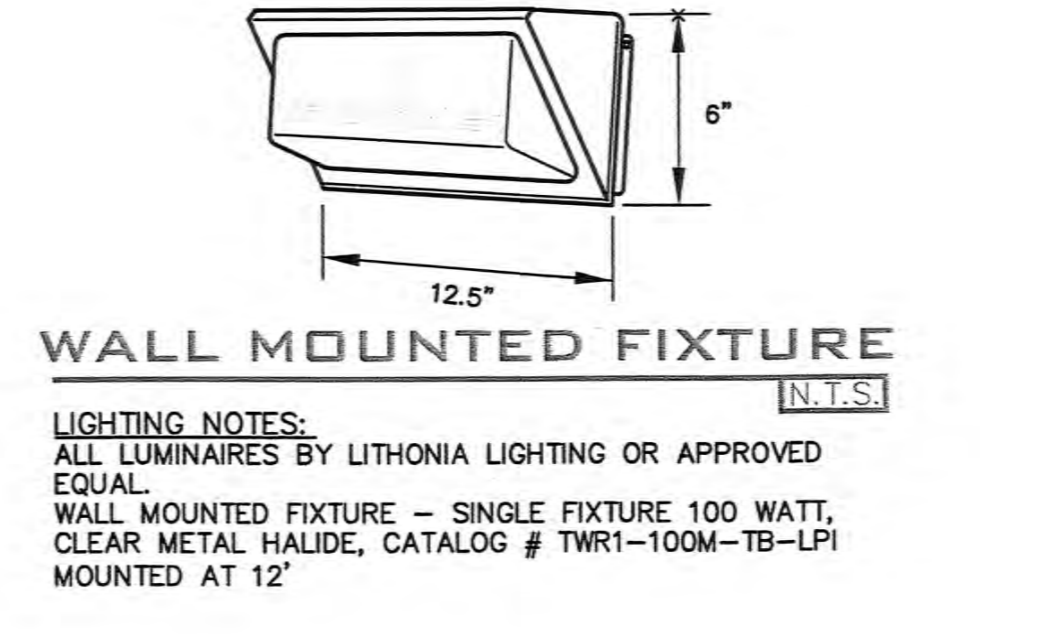
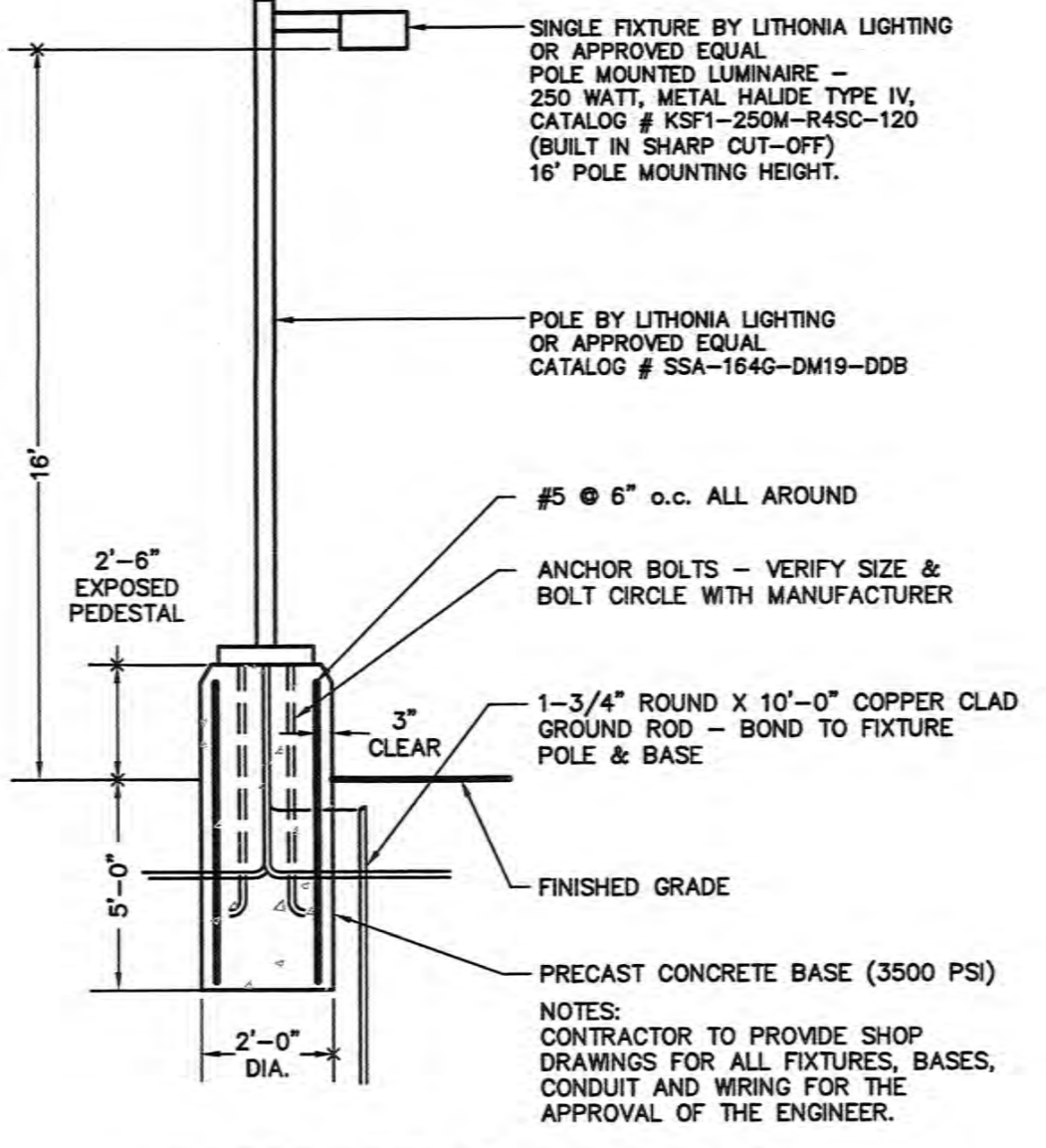
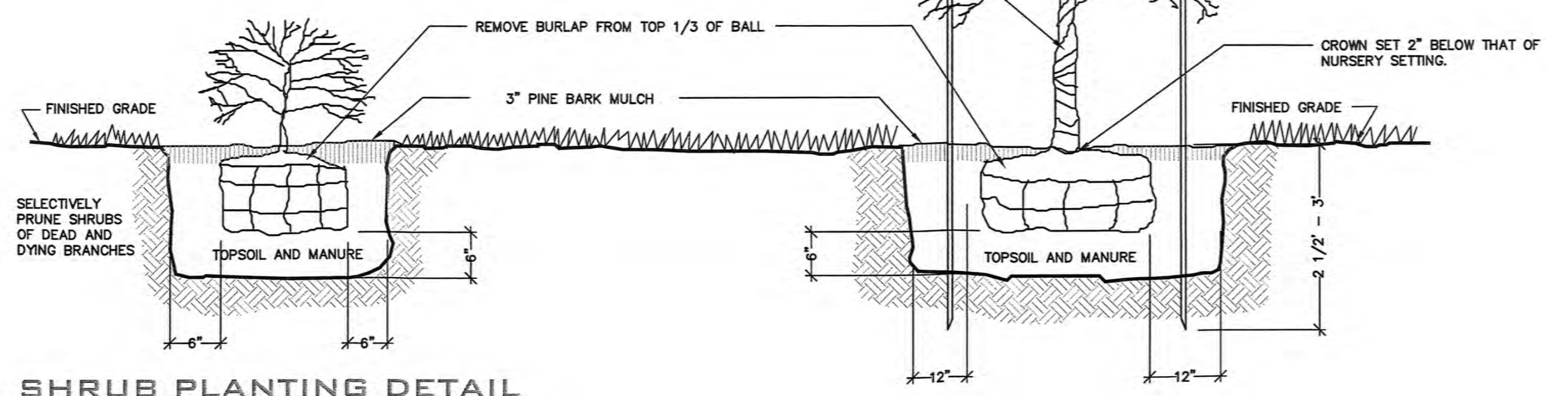
AREA C - DISTURBED AREAS BEYOND THE BASIN BOUNDARIES. PLANT WITH THE FOLLOWING SEED MIX:
 ERNST CONSERVATION SEEDS MIX WILDLIFE FOOD AND SHELTER MIX. APPLICATION RATE - 12 LBS PER ACRE.

AREA D - SEED THE SIDE SLOPE AREAS FOR VEGETATIVE STABILIZATION WITH THE FOLLOWING SEED MIX:
 SEASONALLY FLOODED AREA ANNUAL & PERENNIAL WILDLIFE FOOD MIX. APPLICATION RATE - 15 LBS PER ACRE.

SEED LISTED ABOVE AVAILABLE FROM ERNST CONSERVATION SEEDS, 9006 MERCER PIKE, MEADVILLE, PA 16335 (800) 873-3321

3) ENTIRE AREA AROUND THE OUTSIDE PERIMETER OF THE DETENTION BASIN TO BE PLANTED WITH EVERGREEN SCREENING. PLANT NORWAY SPRUCE (PICEA ABIES) 7'-8" HEIGHT AT 15' O.C.

PLANTING NOTE:
 PLACE TOPSOIL MIXTURE IN BOTTOM OF HOLE AND SATURATE. AFTER PLACING PLANT, WORK TOPSOIL MIXTURE CAREFULLY AROUND ROOT BALL AND THEN SATURATE. WHEN HOLE IS ONE HALF FULL OF MIXTURE, SATURATE AGAIN. FILL HOLE COMPLETELY WITH TOPSOIL MIXTURE AND SATURATE AGAIN. FERTILIZE SOIL AS NECESSARY FOR PLANT SURVIVAL.



TREE LEGEND

(12) - SIZE IN INCHES (LARGEST DIA SHOWN IN TWIN/TRIPLE)
 (K2) - LETTER INDICATES TREE TYPE (SEE BELOW)
 SECOND NUMBER (2), (3) INDICATES TWIN/TRIPLE

A = ASH	E = ELM	MG = MAGNOLIA
B = BIRCH	H = HICKORY	S = SASSAFRAS
BE = BEECH	IW = IRONWOOD	SU = SUMAC
BN = BUTTERNUT	K = OAK	T = TULIP
C = CHERRY	L = LOCUST	W = WALNUT
CA = GRAPPLLE	M = MAPLE	

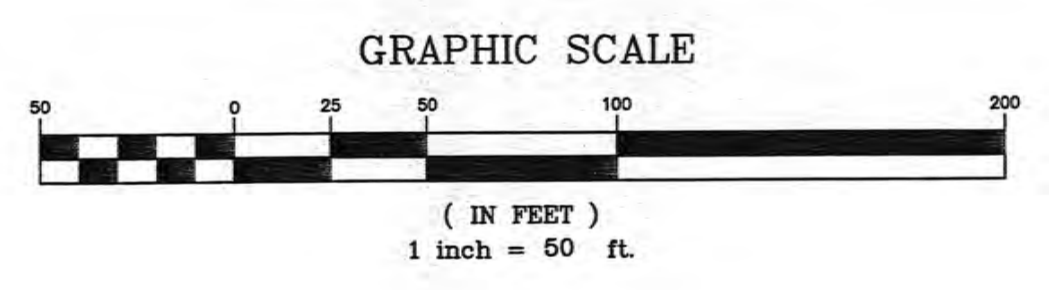
BROOKER ENGINEERING, PLLC
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 LAND USE - DEVELOPMENT - STRUCTURAL - HYDROLOGICAL - SURVEYING
 781 APT. 212E AVENUE
 SUITE 201, NEW YORK, NY 10001
 PHONE: (212) 641-1111 FAX: (212) 641-1112

HILLSIDE COMMERCIAL PARK
 TOWN OF ORANGETOWN
 ROCKLAND COUNTY, NEW YORK

LANDSCAPING & LIGHTING PLAN

NO.	DATE	DESCRIPTION
18	10/22/15	BUILDING REVISION
17	9/21/15	GENERAL REVISIONS
16	3/30/15	AS PER DRAINAGE REVIEW COMMENTS
15	3/9/15	AS PER DRAINAGE REVIEW COMMENTS

Job number: 57007
 Drawn by: A.P. Checked by: S.S.
 Original Date: 08/29/07
 Last Revised Date: 10/22/15
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 Drawing Number: 5



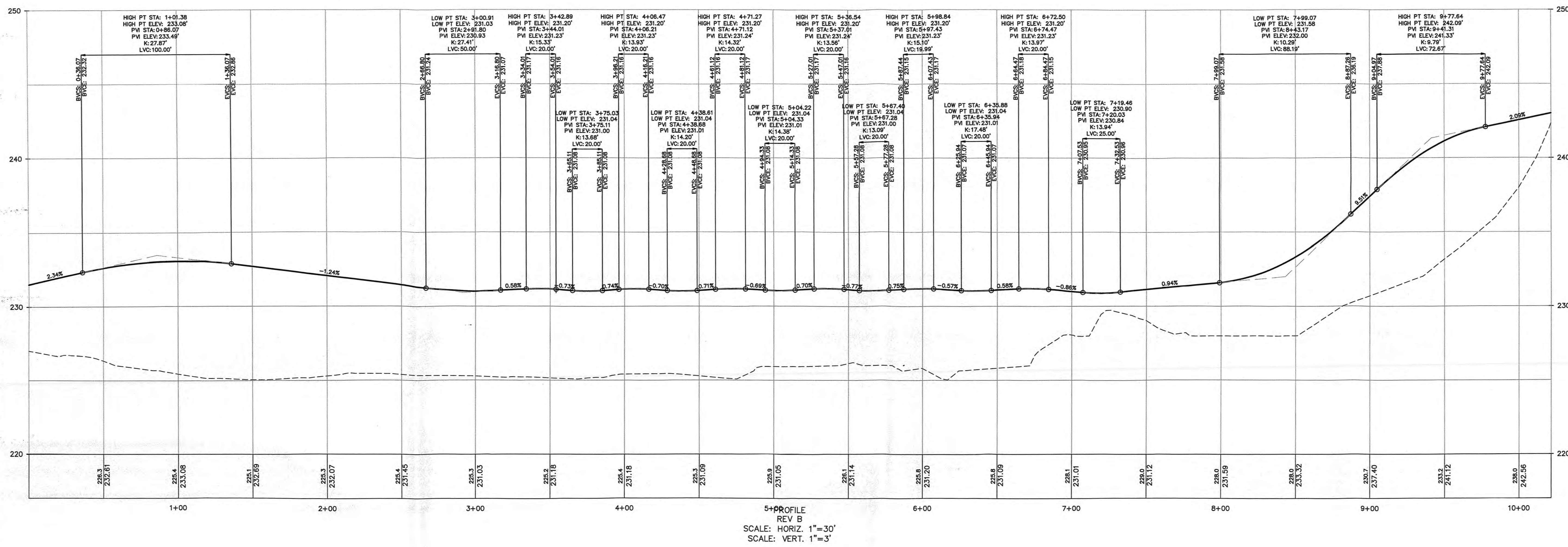
LEGEND

EXISTING SANITARY MANHOLE W/PIPES	S	⊙	S
EXIST DRAINAGE INLET W/PIPES		⊞	
EXISTING UTILITY POLE	UP	⊙	
EXISTING UTILITY POLE WITH LIGHT	UP	⊙	⊞
EXISTING WATER VALVE	WV	⊙	
EXISTING OVERHEAD WIRES	OHW	—	
EXISTING BLACKTOP PAVEMENT		—	
EXISTING CONTOUR LINE		---	520
EXISTING SPOT GRADE		+	520.5
WATER MAIN	W	—	
GAS ELECTRIC & TELEPHONE	GET	—	

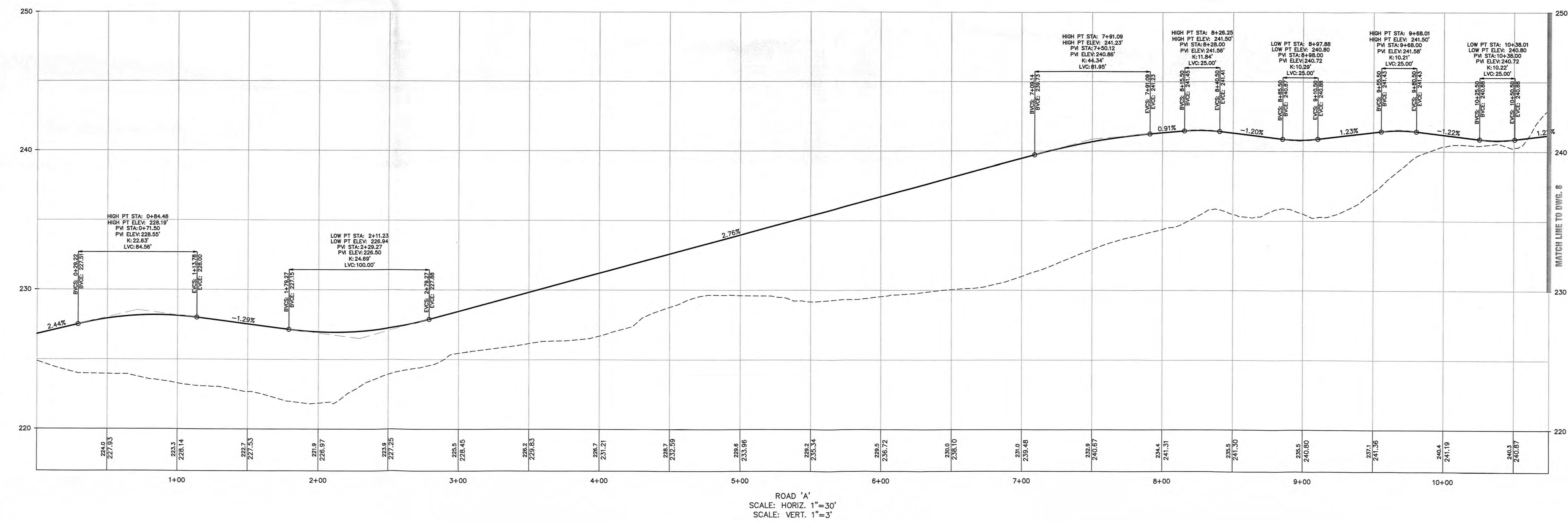
- REFERENCES:**
- MAP ENTITLED "SURVEY OF FREDERICK D. SPREEN JR. PARCEL" - "LEDERLE LABORATORIES DIVISION AMERICAN CYANAMID" DATED JAN. 1951, PREPARED BY JOHN M. ROGERS L.L.S. N.Y.S.# 23904.
 - MAP ENTITLED "SURVEY OF GEORGE B. & LEWIS S. HUNT PARCEL FOR LEDERLE LABORATORIES DIVISION AMERICAN CYANAMID COMPANY" DATED AUGUST, 1951, PREPARED BY JOHN M. ROGERS L.L.S. N.Y.S.# 23904.
 - MAP ENTITLED "PRO-043 RAILROAD PROPERTY SOUTH OF CROOKED HILL ROAD", DATED 2-10-67.
 - MAP ENTITLED "NEW YORK STATE DEPARTMENT OF PUBLIC WORKS DESCRIPTION AND MAP FOR THE ACQUISITION OF PROPERTY S.H. 9006 - MAP NO. 70, PARCEL 102" AND OTHER PARCELS, DATED MARCH 29, 1966.
 - MAP ENTITLED "NEW YORK STATE DEPARTMENT OF PUBLIC WORKS DESCRIPTION AND MAP FOR THE ACQUISITION OF PROPERTY S.H. 9006 - MAP NO. 73 PARCEL NOS. 93,94,95, AND OTHERS, DATED OCTOBER 18, 1966.
 - CONTRACT PLAN ENTITLED "S.H. 9006, PEARL RIVER-NANUET ROCKLAND COUNTY - PLAN STA. 37+50SB STA. 37+50NB TO STA 50+35 CL, SHEET 56R", PREPARED BY KING & GAVARIS, CONSULTING ENGINEERS. DATED 4-2-63.
 - LIBER 1007 PAGE 265
 - TITLE REPORT PREPARED BY CHICAGO TITLE INSURANCE # 2005C 105803 ,DATED JANUARY 4, 2005.

NOTES:
 AERIAL COMPILATION BY GOLDEN AERIAL SURVEY
 DATE OF PHOTO DEC. 1999.

	18	BUILDING REVISION	10/22/15
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BROOKER ENGINEERING, PLLC PROFESSIONAL ENGINEERS LAND USE DEVELOPMENT, STRUCTURAL, HYDROLOGICAL, SURVEYING 37 E. STATE STREET, SUITE 200 SUFFERN, NEW YORK 10901 MAHAWA, NEW JERSEY 07430 phone: (914) 327-4411 fax: (914) 327-1995 phone: (201) 884-1221 fax: (201) 884-1223		HILLSIDE COMMERCIAL PARK TOWN OF ORANGETOWN ROCKLAND COUNTY, NEW YORK EXISTING CONDITION	
Job number:	57007		
Drawn by:	A.P.	Checked by:	S.S.
Original Date:	08/29/07		
Last Revised Date:	10/22/15		
Scale:	1" = 50'		
Drawing Number:	6		



5+PROFILE
REV B
SCALE: HORIZ. 1"=30'
SCALE: VERT. 1"=3'



ROAD 'A'
SCALE: HORIZ. 1"=30'
SCALE: VERT. 1"=3'

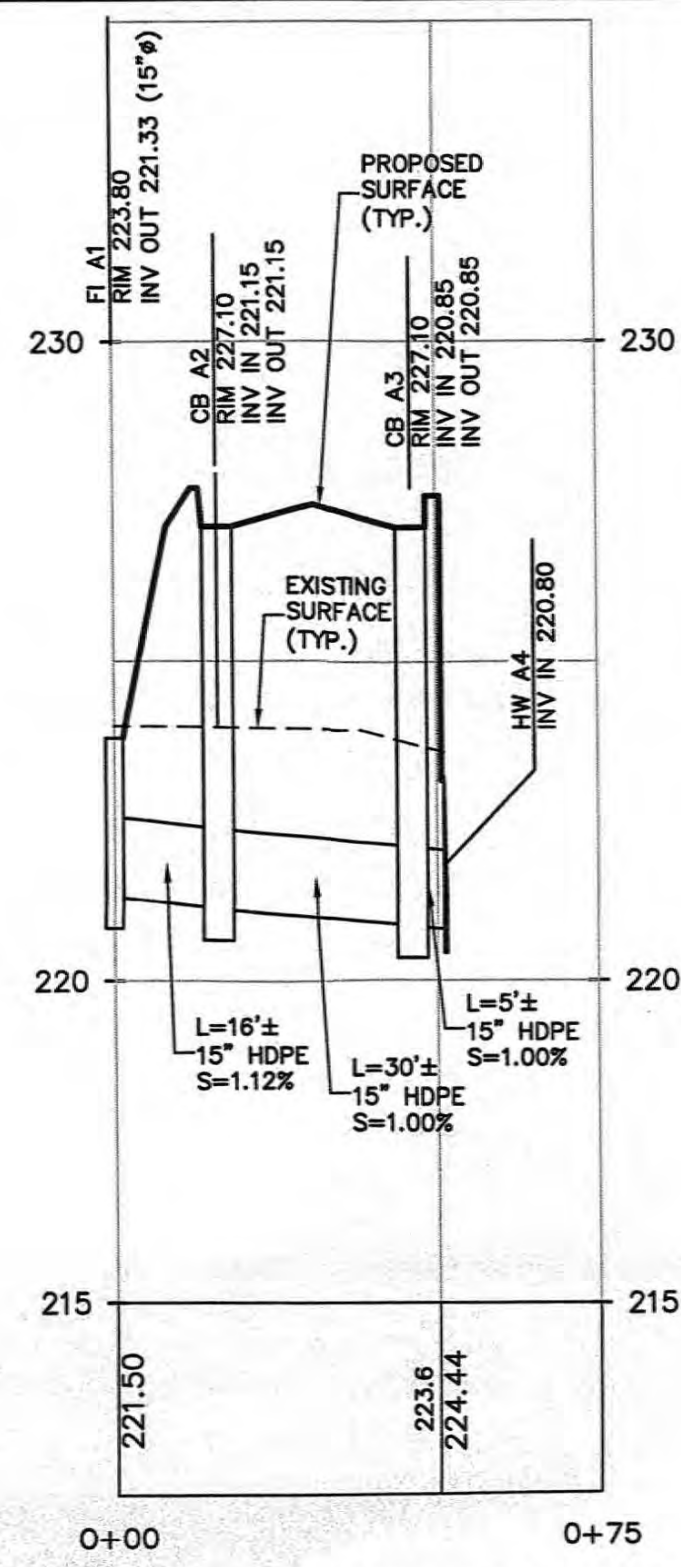
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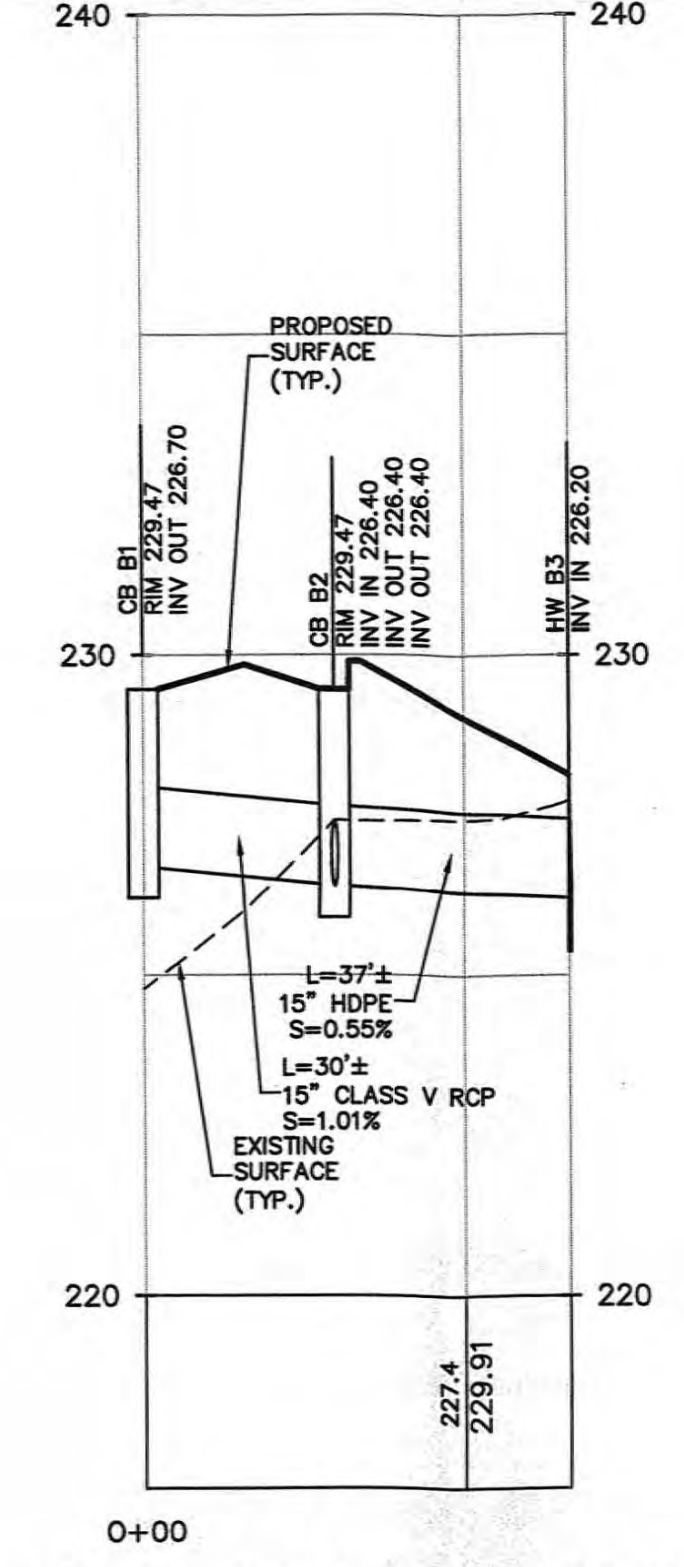
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HILLSIDE COMMERCIAL PARK
TOWN OF ORANGETOWN
ROCKLAND COUNTY, NEW YORK
ROAD PROFILES (1 OF 2)

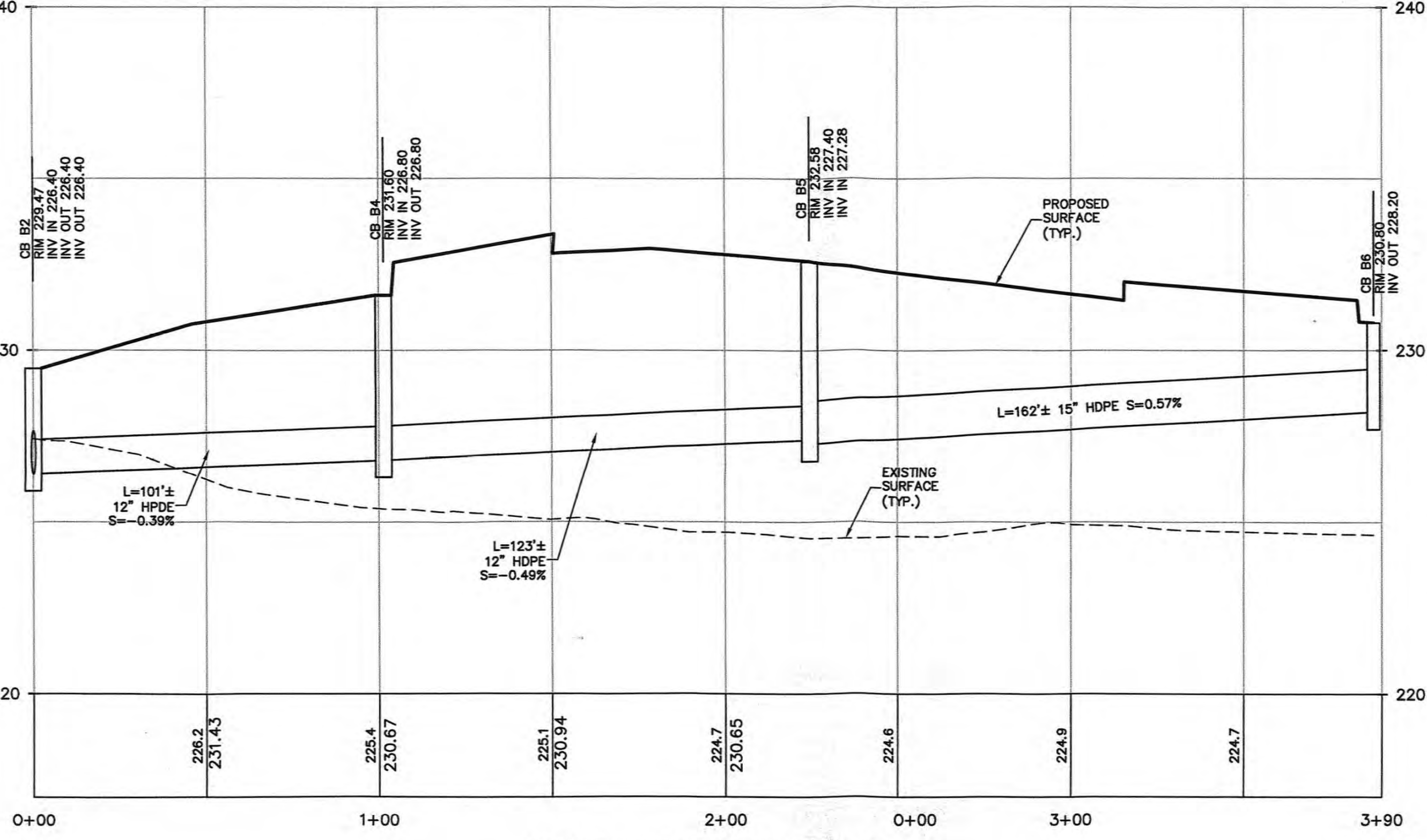
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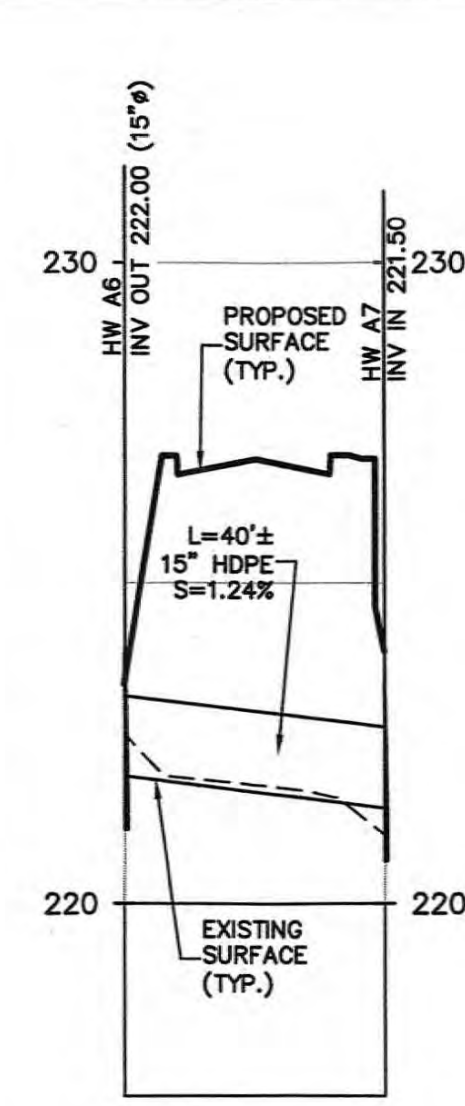
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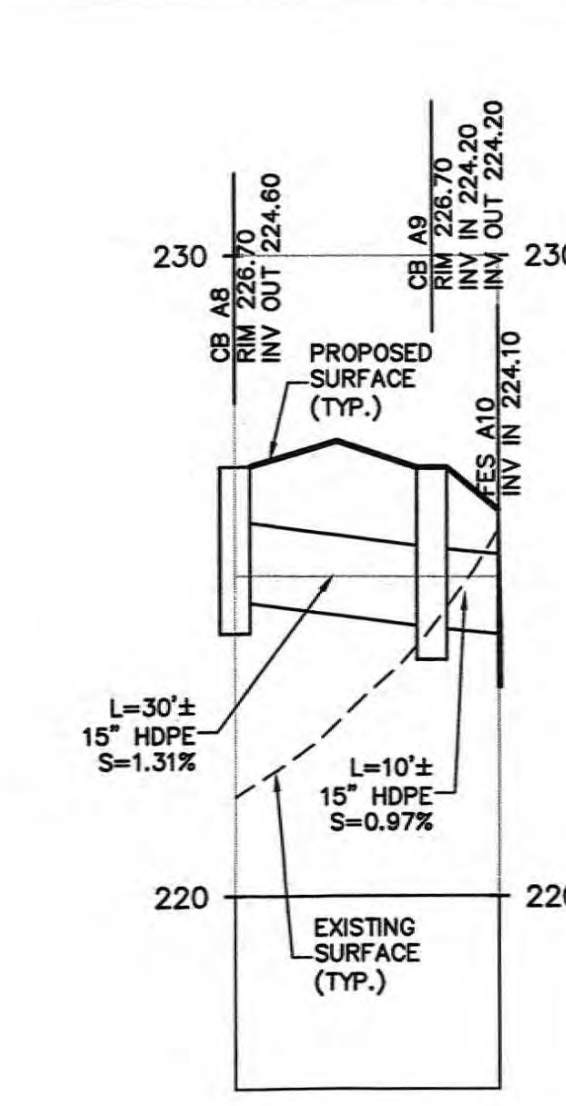
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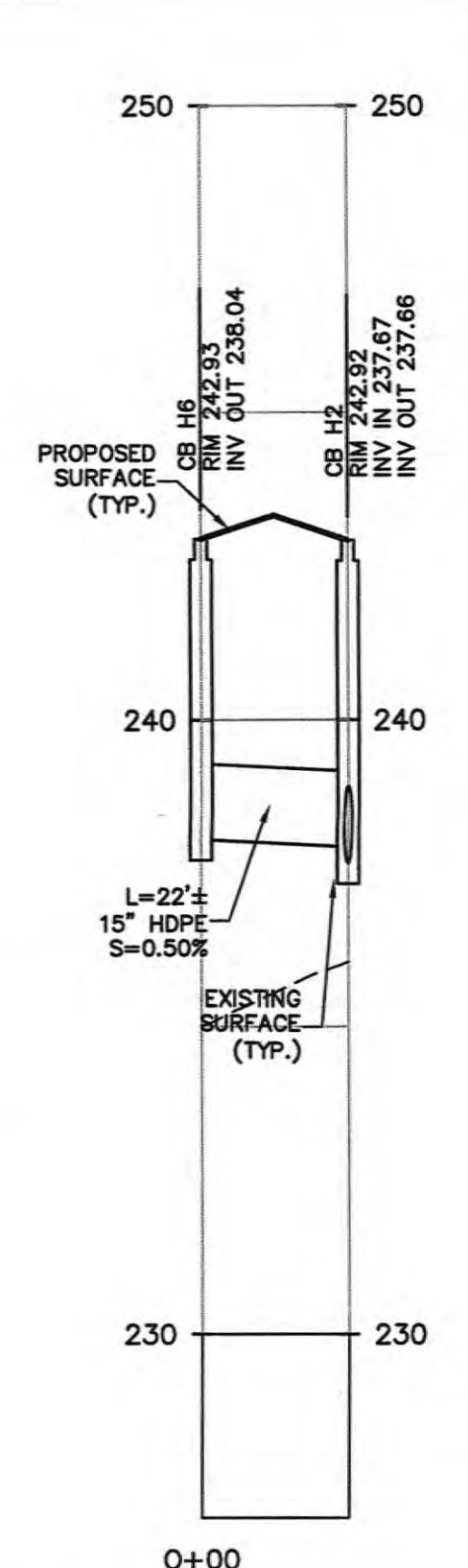
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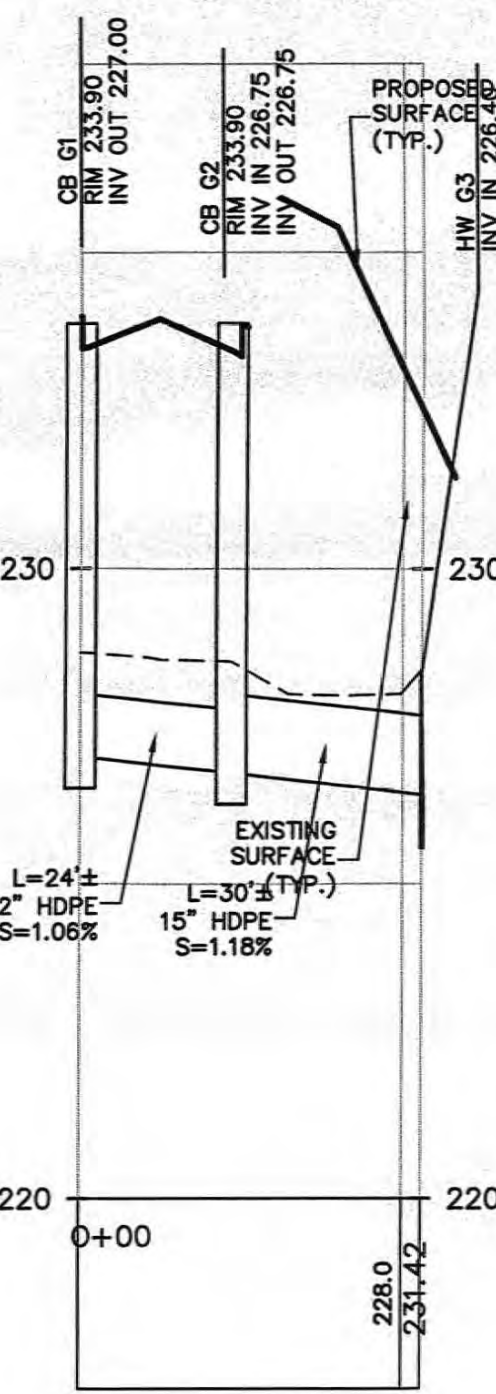
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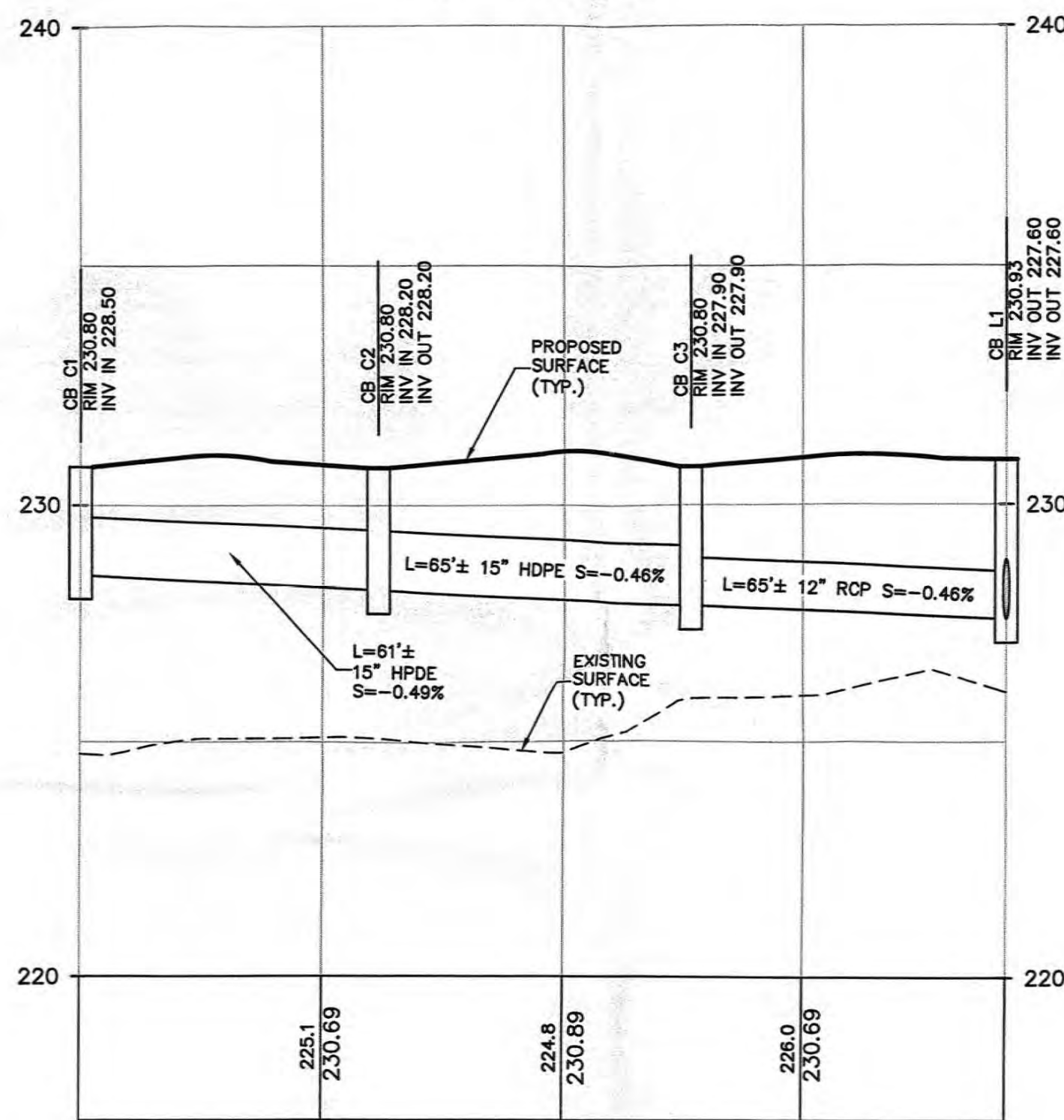
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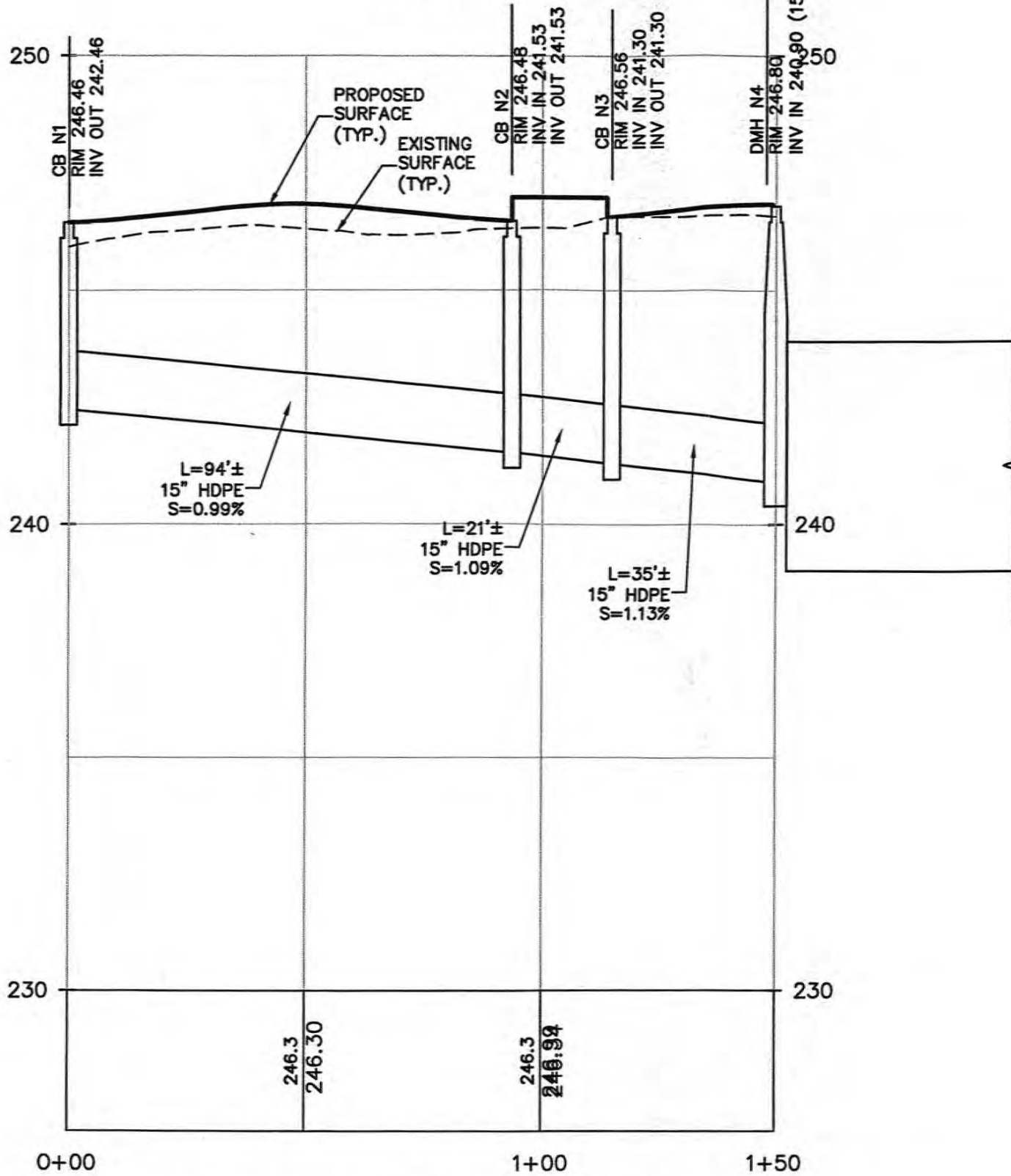
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SCALE: VERT. 1"=3'



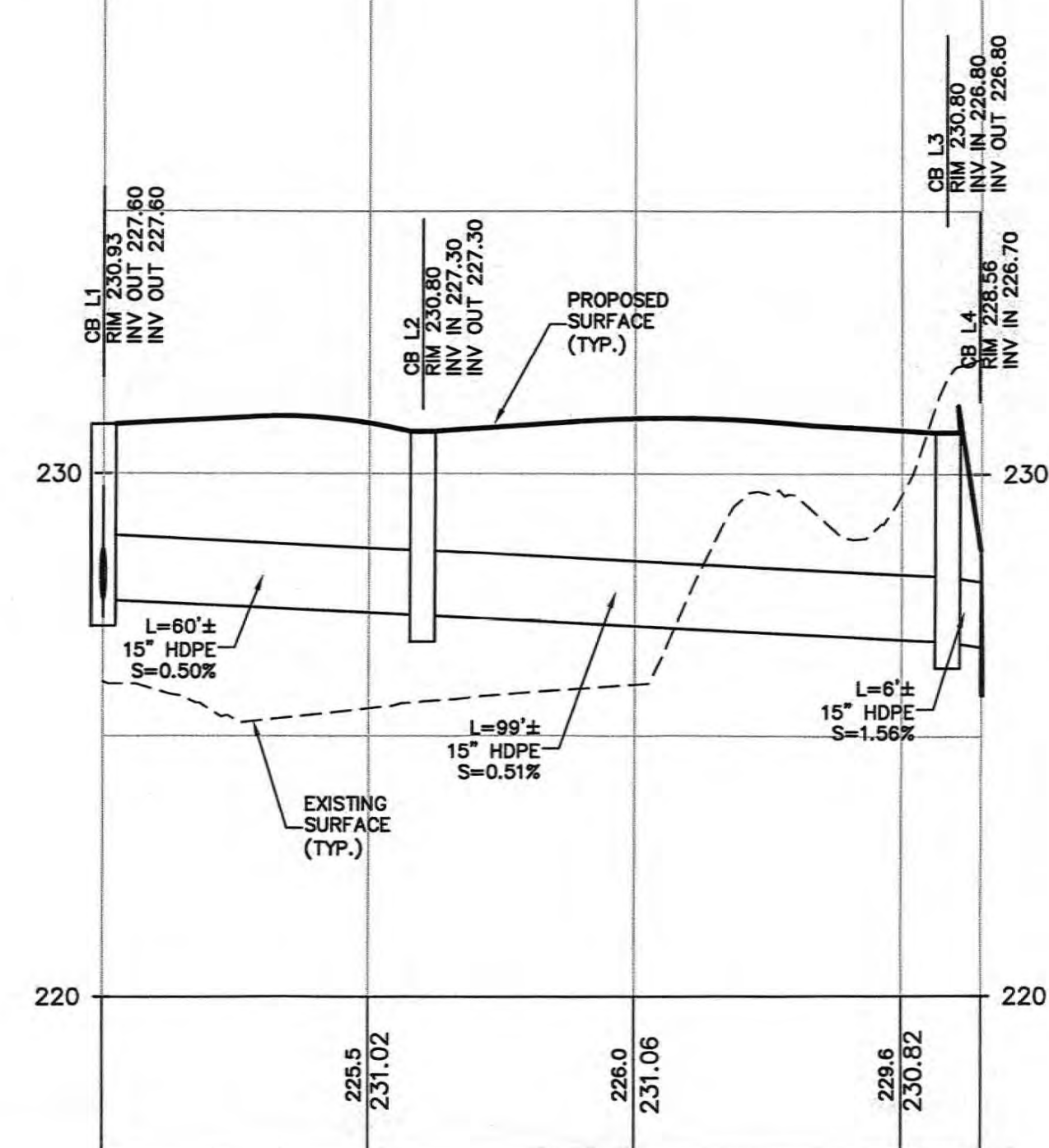
PROFILE - STORM CB G1 TO CB G3
SCALE: HORIZ. 1"=30'
SCALE: VERT. 1"=3'



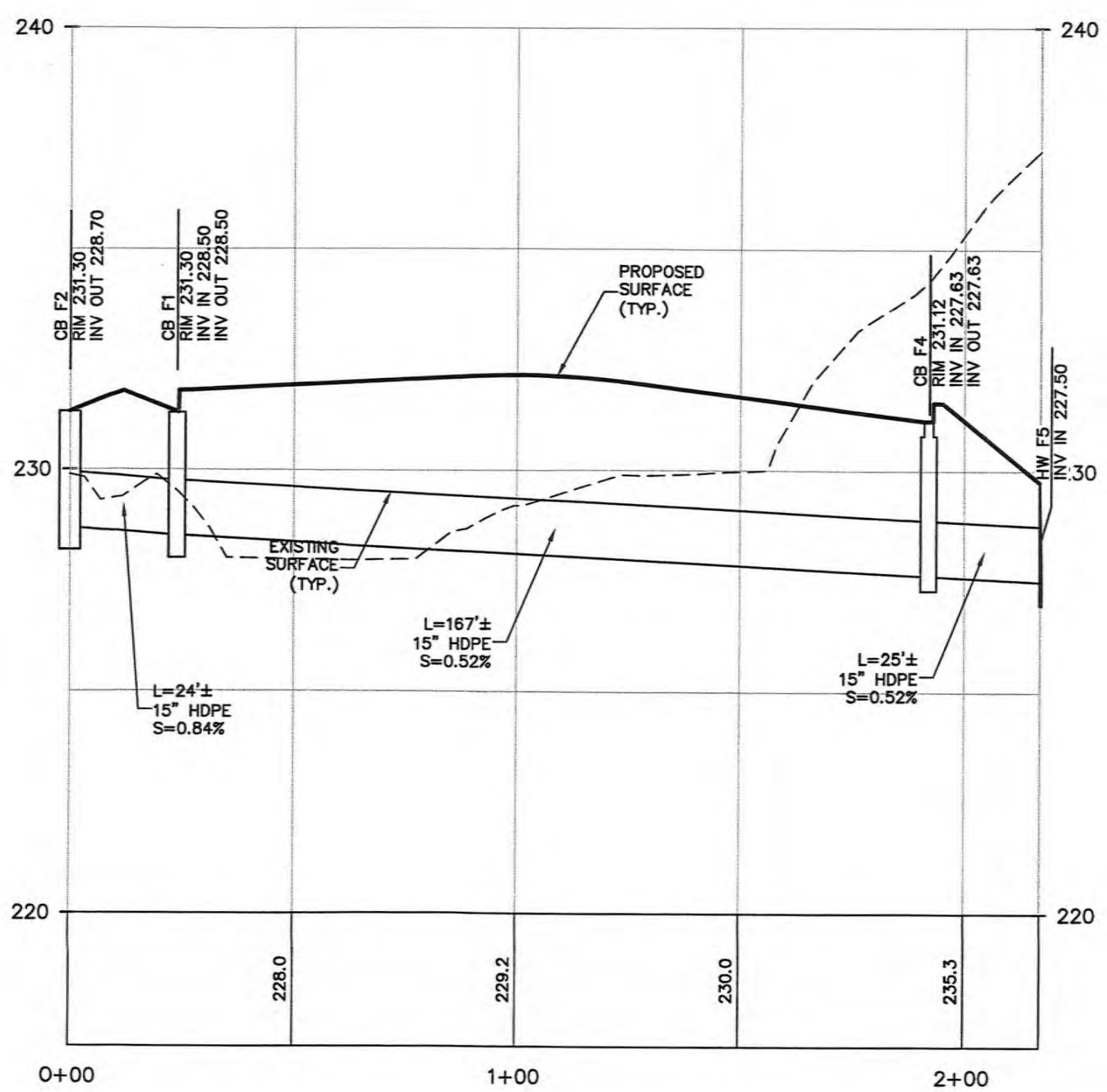
PROFILE - STORM CB C1 TO CB L1
SCALE: HORIZ. 1"=30'
SCALE: VERT. 1"=3'



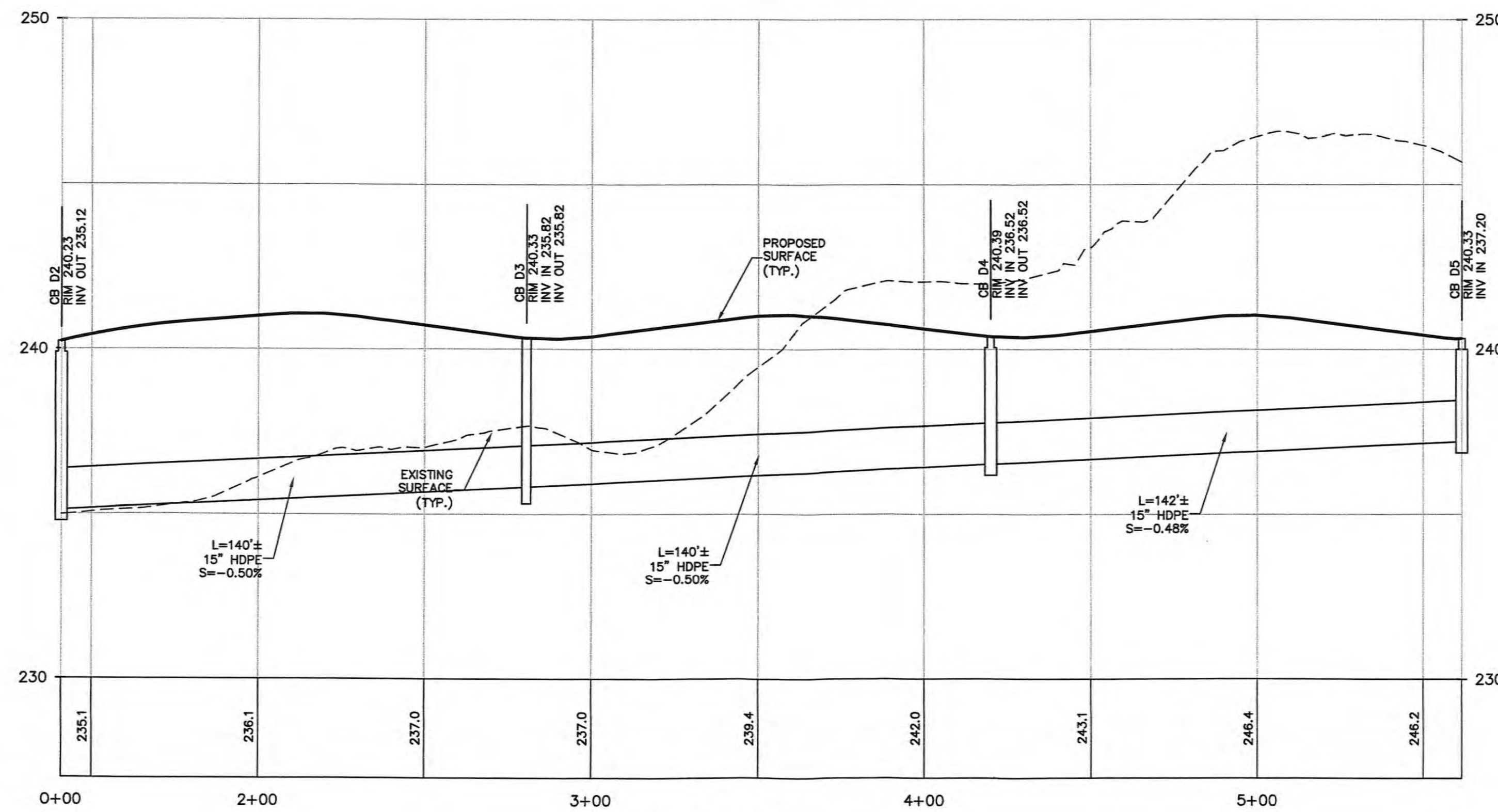
PROFILE - STORM CB N1 TO DMH N4
SCALE: HORIZ. 1"=30'
SCALE: VERT. 1"=3'



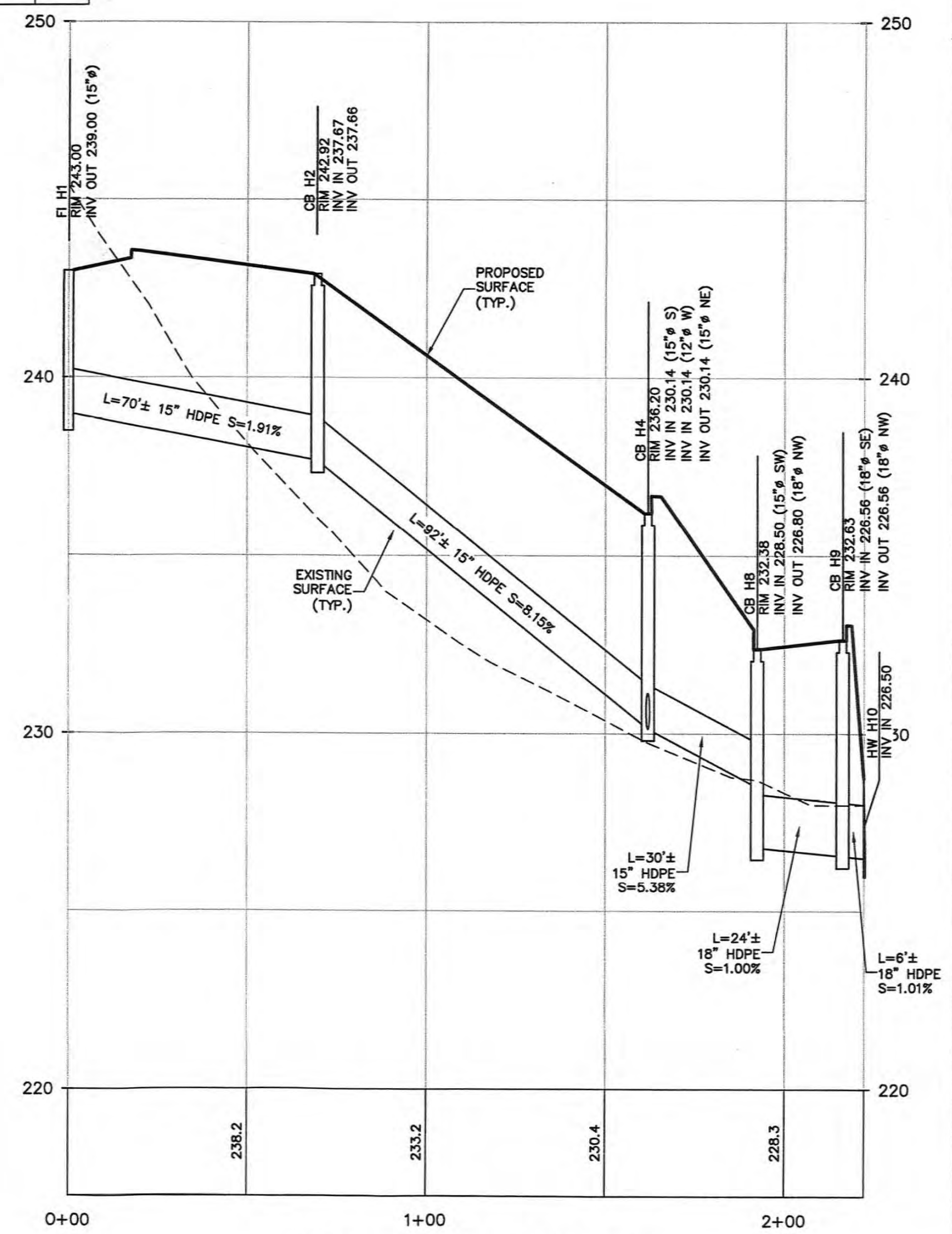
PROFILE - STORM CB L1 TO HW L4
SCALE: HORIZ. 1"=30'
SCALE: VERT. 1"=3'



PROFILE - STORM CB F1 TO HW H5
SCALE: HORIZ. 1"=30'
SCALE: VERT. 1"=3'



PROFILE - STORM CB D2 TO CB D5
SCALE: HORIZ. 1"=30'
SCALE: VERT. 1"=3'

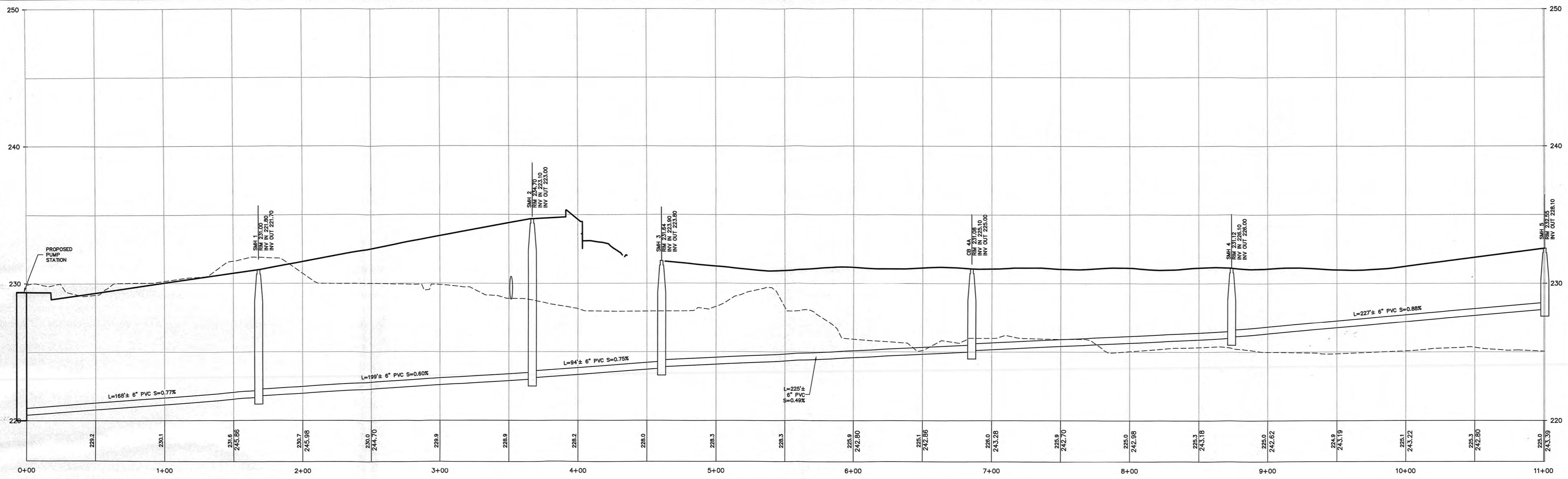


PROFILE - STORM F2 H1 TO HW F5
SCALE: HORIZ. 1"=30'
SCALE: VERT. 1"=3'

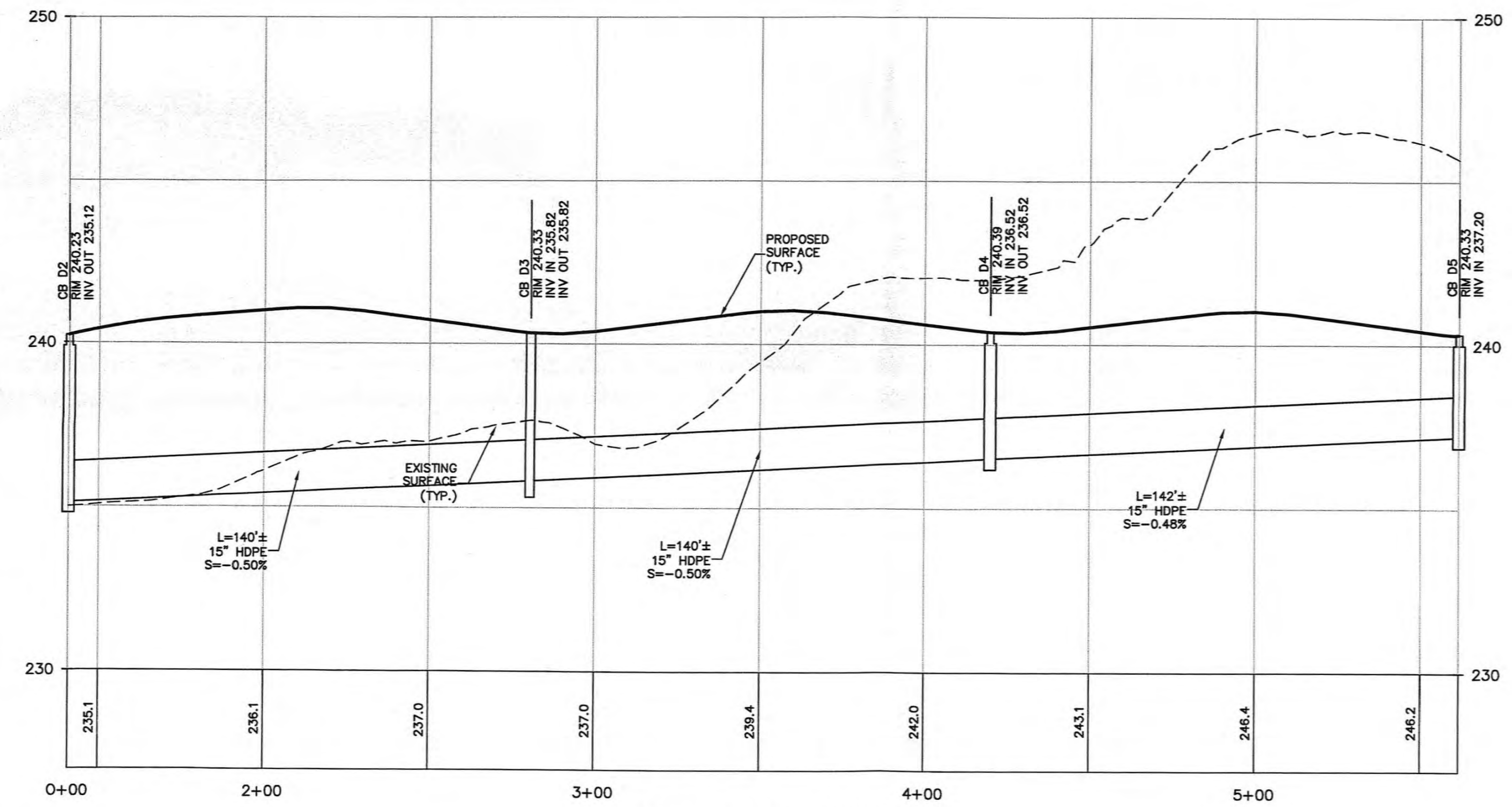
REV.	DATE	DESCRIPTION
15	3/9/15	AS PER DRAINAGE REVIEW COMMENTS
16	3/30/15	AS PER DRAINAGE REVIEW COMMENTS
17	9/21/15	GENERAL REVISIONS
18	10/22/15	BUILDING REVISION

 BROOKER ENGINEERING, PLLC PROFESSIONAL ENGINEERS LAND USE DEVELOPMENT - STRUCTURAL - HYDROLOGICAL - SURVEYING 76 LAFAYETTE AVENUE 65 RAMAPO VALLEY ROAD ROCKLAND COUNTY, NEW YORK PHONE: (845) 387-4411 FAX: (845) 351-1888	HILLSIDE COMMERCIAL PARK TOWN OF ORANGETOWN ROCKLAND COUNTY, NEW YORK DRAINAGE PROFILES
--	--

Job number:	57007
Drawn by:	A.P.
Checked by:	S.S.
Original Date:	08/29/07
Last Revised Date:	10/22/15
Scale:	1" = 30'
Drawing Number:	



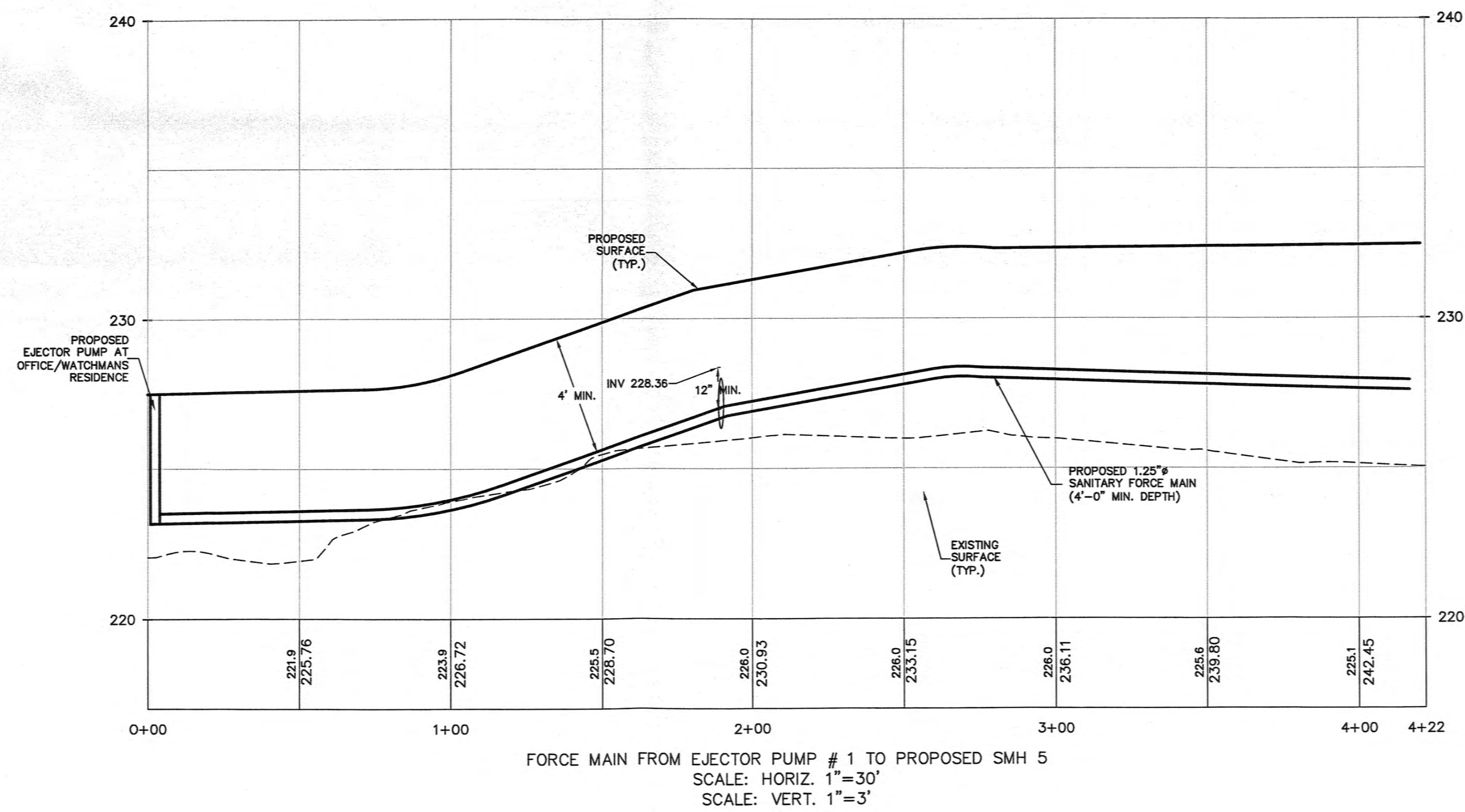
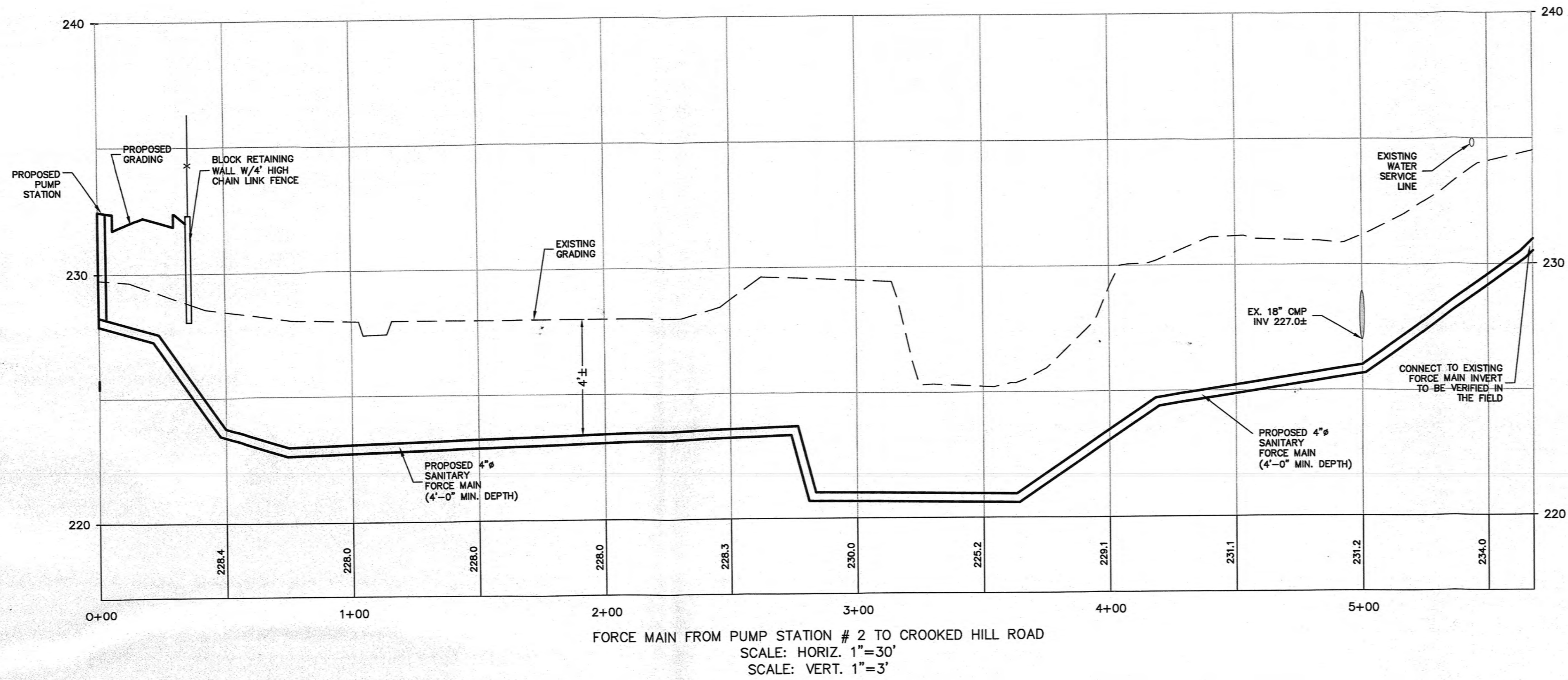
SANITARY SEWER
 SCALE: HORIZ. 1"=30'
 SCALE: VERT. 1"=3'



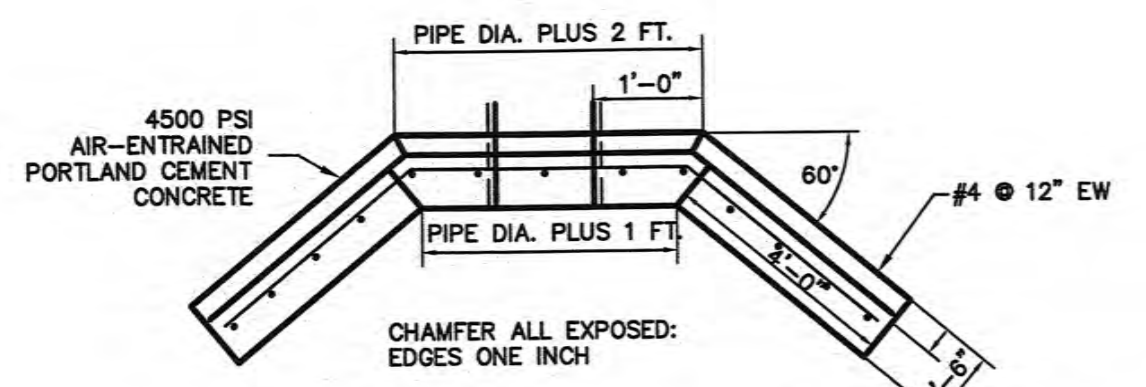
PROFILE - STORM CB D2 TO CB D5
 SCALE: HORIZ. 1"=30'
 SCALE: VERT. 1"=3'

BROOKER ENGINEERING, PLLC PROFESSIONAL ENGINEERS LAND USE - DEVELOPMENT - STRUCTURAL - HYDROLOGICAL - SURVEYING 78 LAFAYETTE AVENUE NEW YORK, NY 10003 phone: (212) 307-4411 fax: (212) 307-1899	
HILLSIDE COMMERCIAL PARK TOWN OF ORANGETOWN ROCKLAND COUNTY, NEW YORK DRAINAGE AND SANITARY SEWER PROFILES	
Job number:	57007
Drawn by:	A.P.
Checked by:	S.S.
Original Date:	08/29/07
Last Revised Date:	10/22/15
Scale:	1" = 30'
Drawing Number:	10

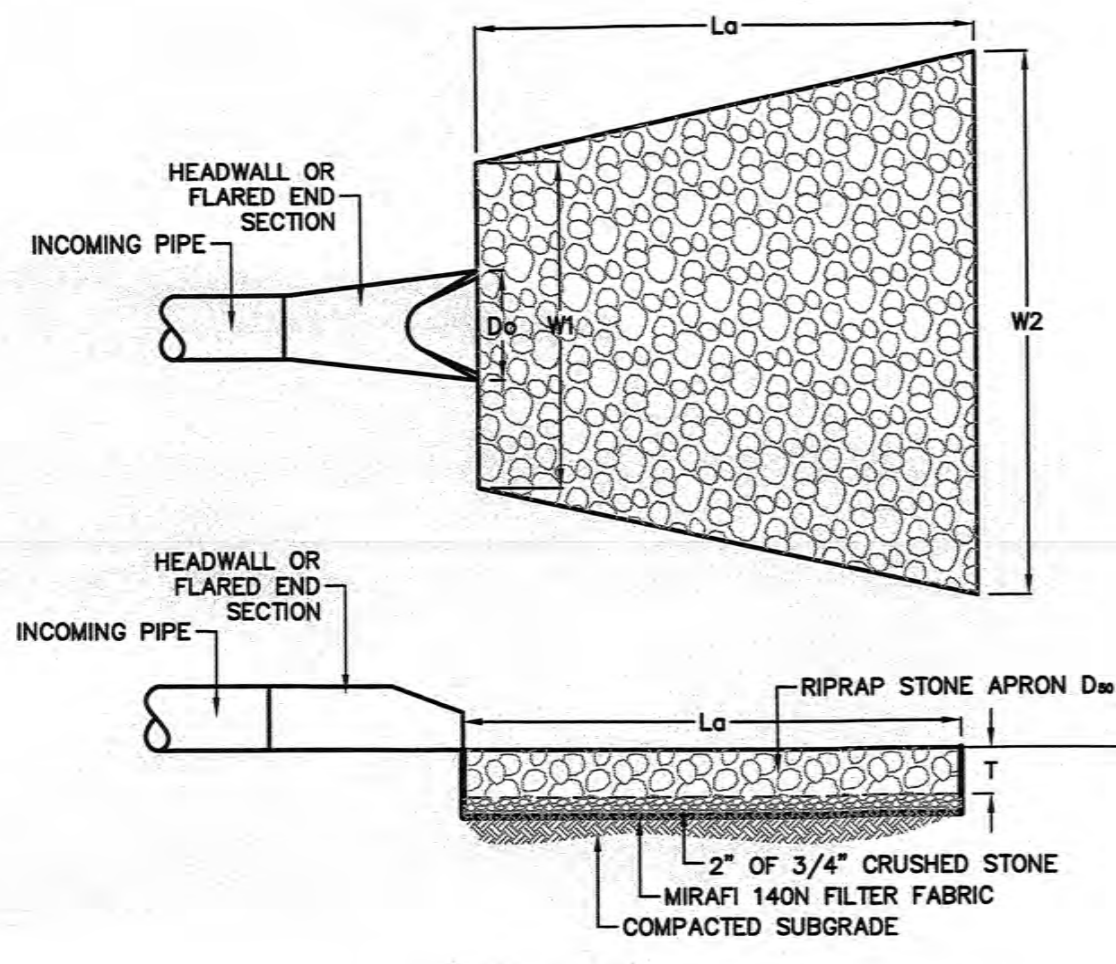
REV.	DESCRIPTION	DATE
15	AS PER DRAINAGE REVIEW COMMENTS	3/9/15
16	AS PER DRAINAGE REVIEW COMMENTS	3/30/15
17	GENERAL REVISIONS	9/21/15
18	BUILDING REVISION	10/22/15



HILLSIDE COMMERCIAL PARK TOWN OF ORANGETOWN ROCKLAND COUNTY, NEW YORK FORCE MAIN PROFILES		BROOKER ENGINEERING, PLLC PROFESSIONAL ENGINEERS LAND USE - DEVELOPMENT - STRUCTURAL - HYDROLOGICAL - SURVEYING 165 RAMAPO VALLEY ROAD 276 LAUREL AVENUE PHONE: (845) 337-4411 FAX: (845) 337-1886		
Job number:	57007	18	BUILDING REVISION	10/22/15
Drawn by:	A.P.	17	GENERAL REVISIONS	9/21/15
Checked by:	S.S.	16	AS PER DRAINAGE REVIEW COMMENTS	3/30/15
Original Date:	08/29/07	15	AS PER DRAINAGE REVIEW COMMENTS	3/9/15
Last Revised Date:	10/22/15	REV.	DESCRIPTION	DATE
Scale:	1" = 30'			
Drawing Number:	11			



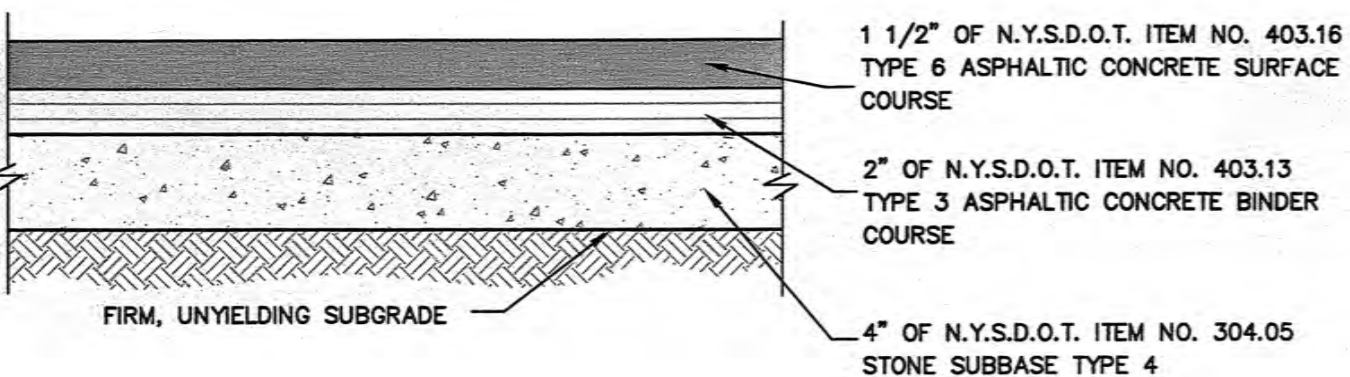
CONCRETE HEADWALL DETAIL
N.T.S.



RIP-RAP OUTLET PROTECTION DETAIL
N.T.S.

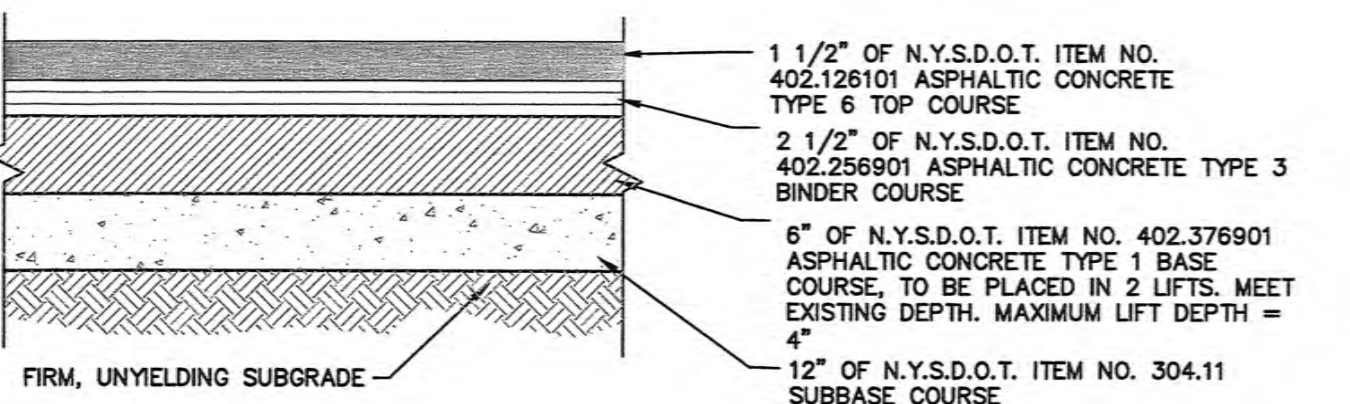
Do	W1	W2	La	D50	T
18"	4'	10'	8'	6"	14"
18"	5'	11'	9'	6"	14"
24"	6'	12'	10'	6"	14"
30"	7.5'	15'	12'	6"	14"

RIP-RAP DETAIL
N.T.S.



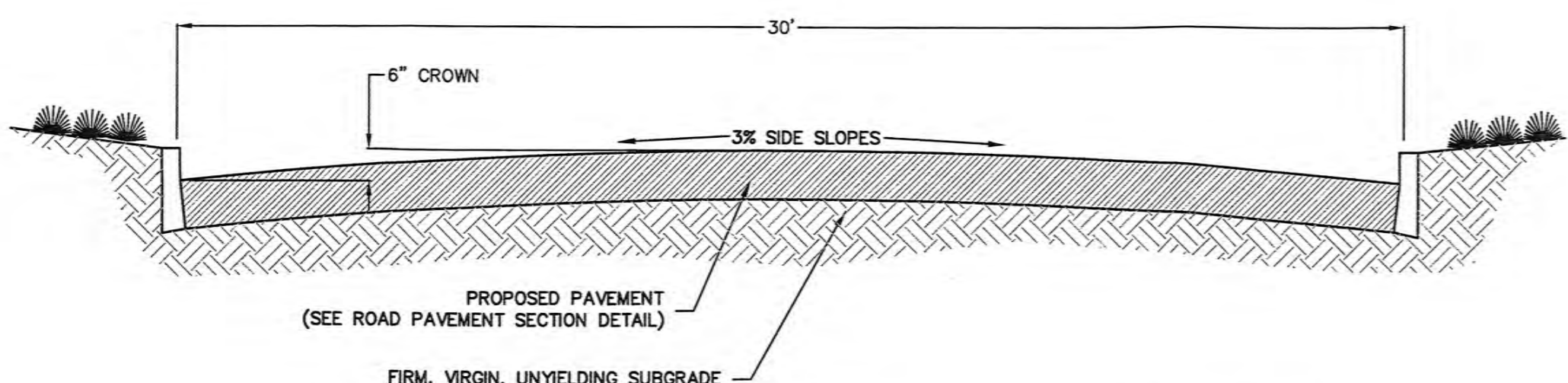
DETAIL-PAVEMENT SECTION
N.T.S.

NYSDOT NOTE:
THIS DETAIL IS ONLY FOR PAVEMENT WITHIN THE PARKING LOTS ON THE PROJECT SITE. ANY PAVEMENT OR PAVEMENT RESTORATION WITHIN THE NYSDOT RIGHT-OF-WAY MUST BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ALL NYSDOT STANDARDS AND SPECIFICATIONS.

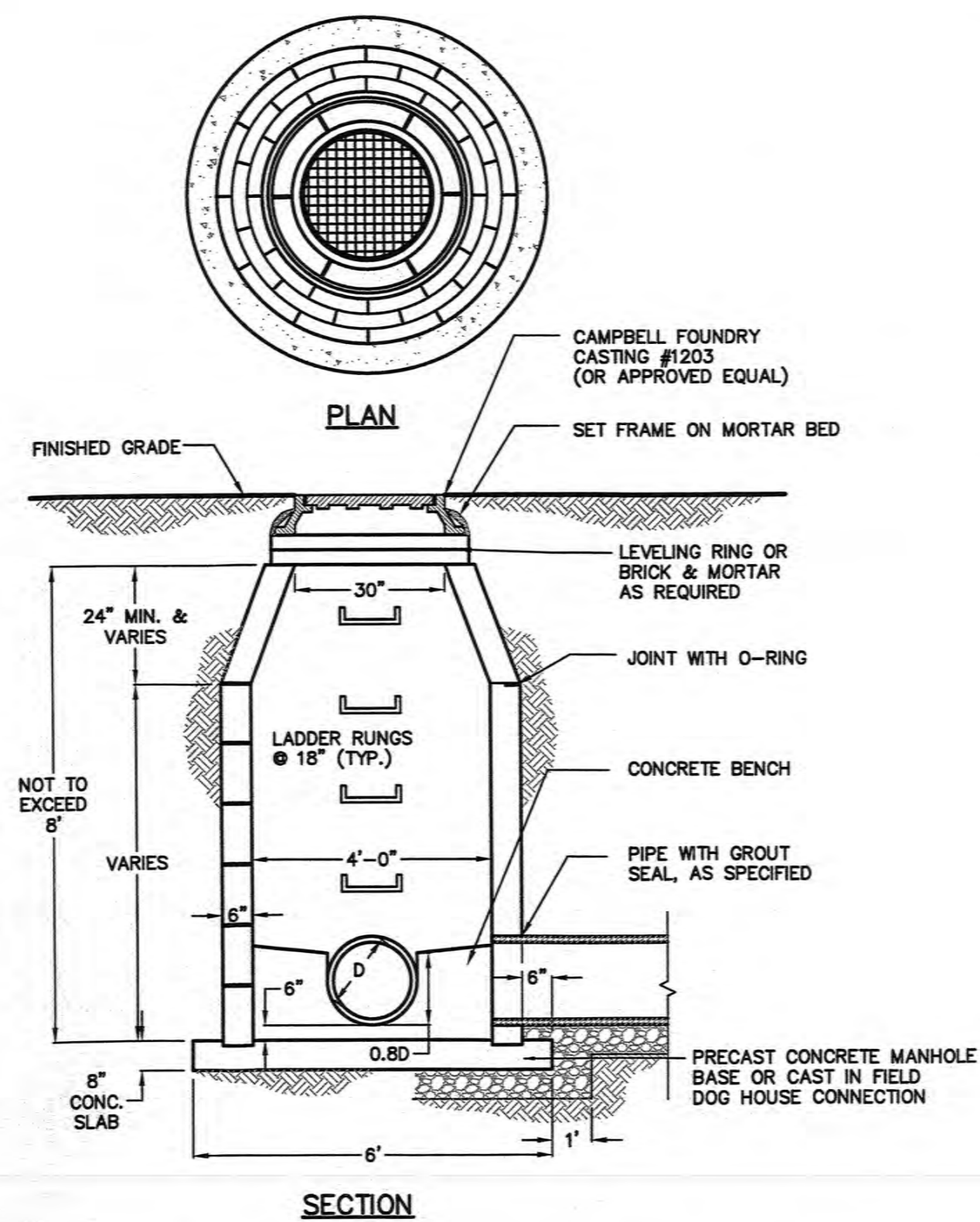


PAVEMENT SECTION WITHIN N.Y.S.D.O.T. RIGHT-OF-WAY
N.T.S.

NOTES:
1. TACK COAT SHALL BE APPLIED TO ALL EXPOSED EDGES AND BETWEEN EVERY LIFT.
2. MINIMUM DEPTH OF NEW PAVEMENT CROSS-SECTION MUST MEET DEPTH OF EXISTING PAVEMENT.

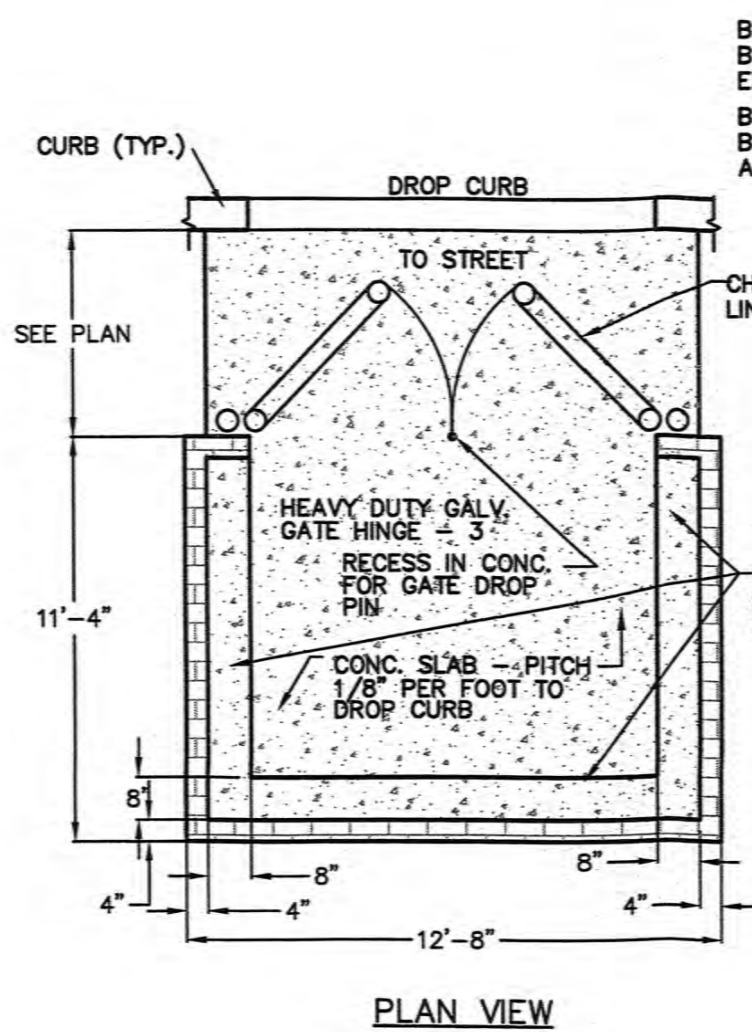


DETAIL-TYPICAL ROADWAY CROSS SECTION
N.T.S.

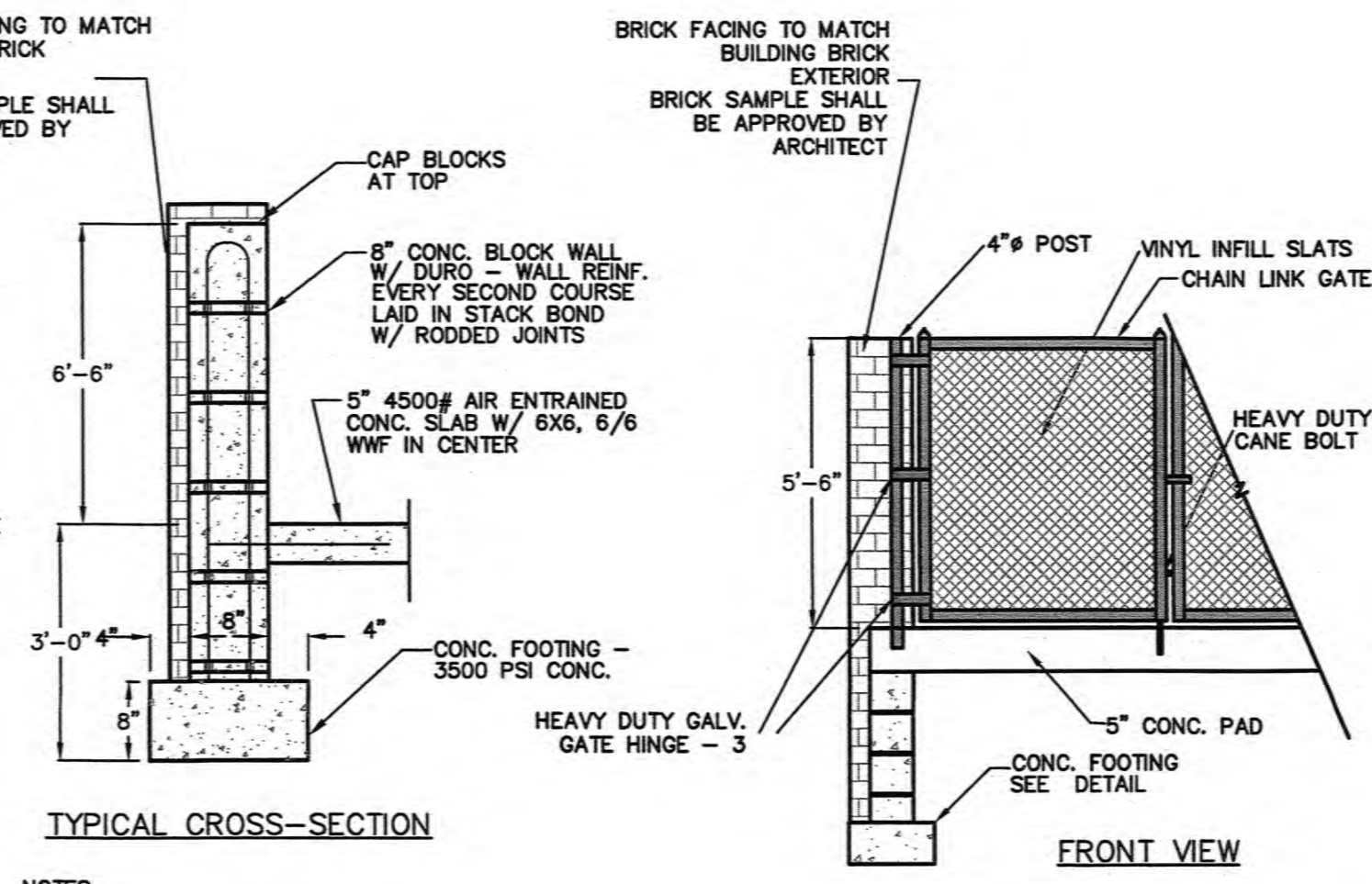


STANDARD STORM MANHOLE DETAIL
N.T.S.

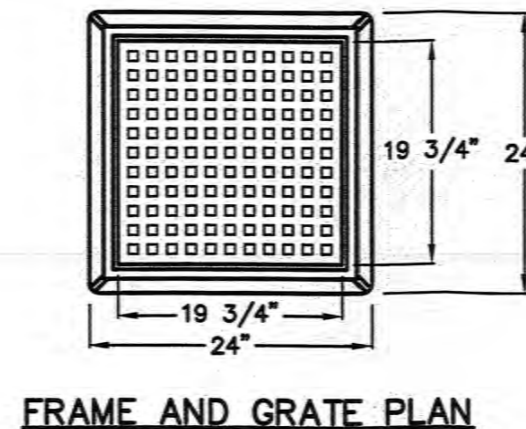
NOTES:
1. MANHOLE TO CONFORM TO A.S.T.M. C478 (LATEST REVISION).
2. PRECAST CONCRETE MANHOLES WITH RESILIENT SEALS AT JOINTS.
3. MANUFACTURER SHALL CERTIFY ALL COMPONENTS MANHOLE FOR HS20 LOADING.
4. RISER SECTION JOINTS SHALL BE FIELD-MORTARED.



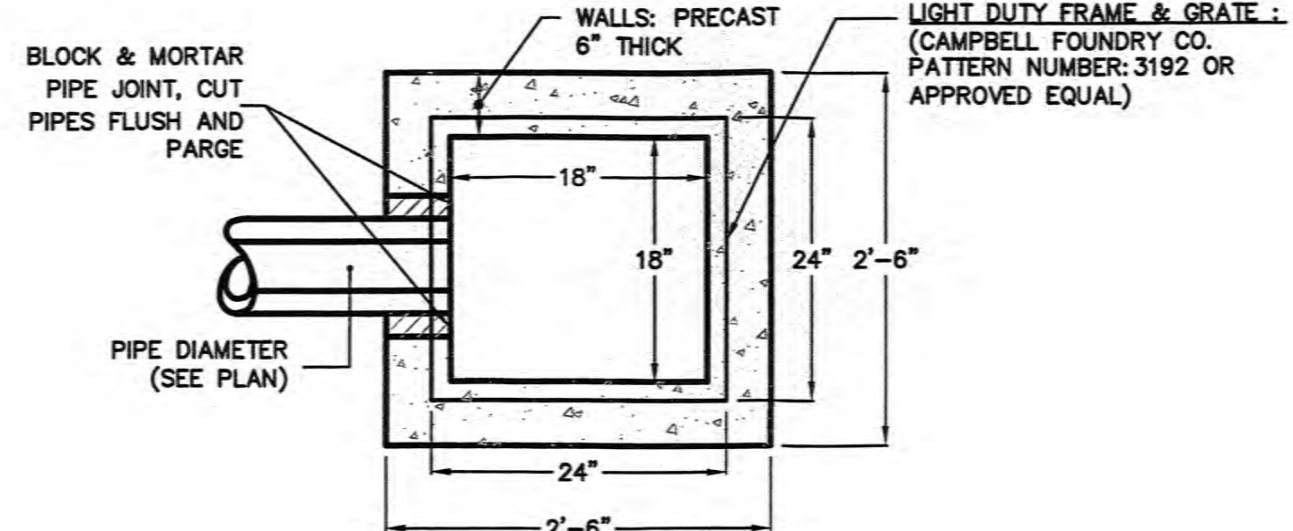
DETAIL-REFUSE CONTAINMENT STRUCTURE
N.T.S.



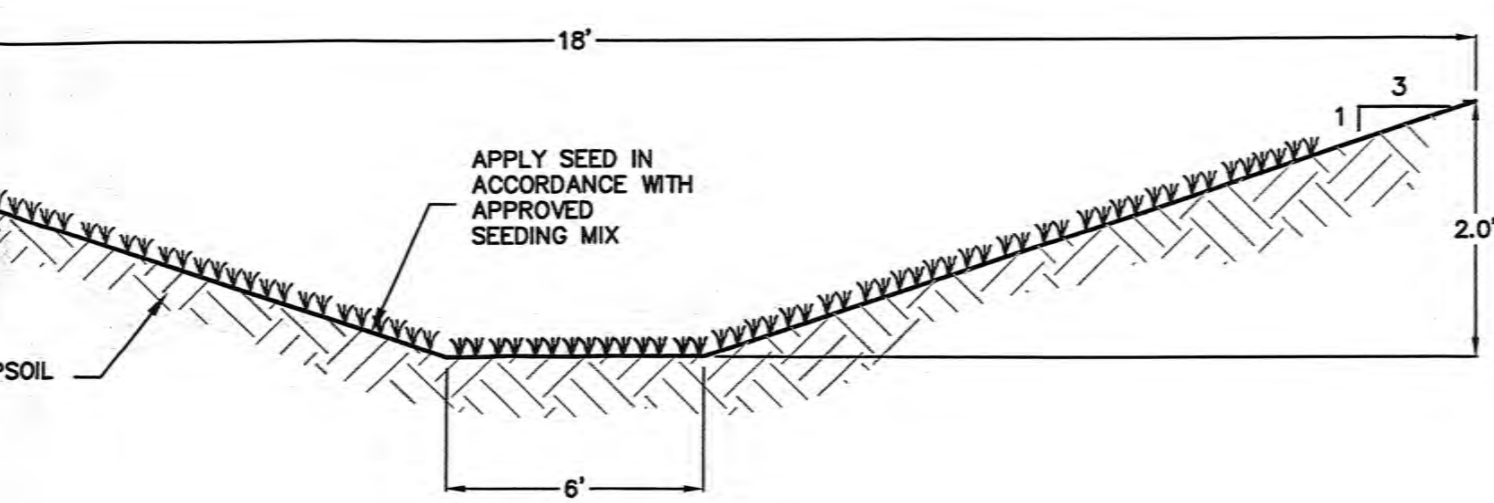
NOTES:
1. ALL FASTENINGS SHALL BE GALVANIZED STEEL.
2. SPLIT-FACE DECORATIVE BLOCK MAY BE USED IN LIEU OF BRICK-BLOCK COMBINATION. ARCHITECT SHALL APPROVE SAMPLE OF SPLIT-FACE BLOCK.



FRAME AND GRATE PLAN
N.T.S.

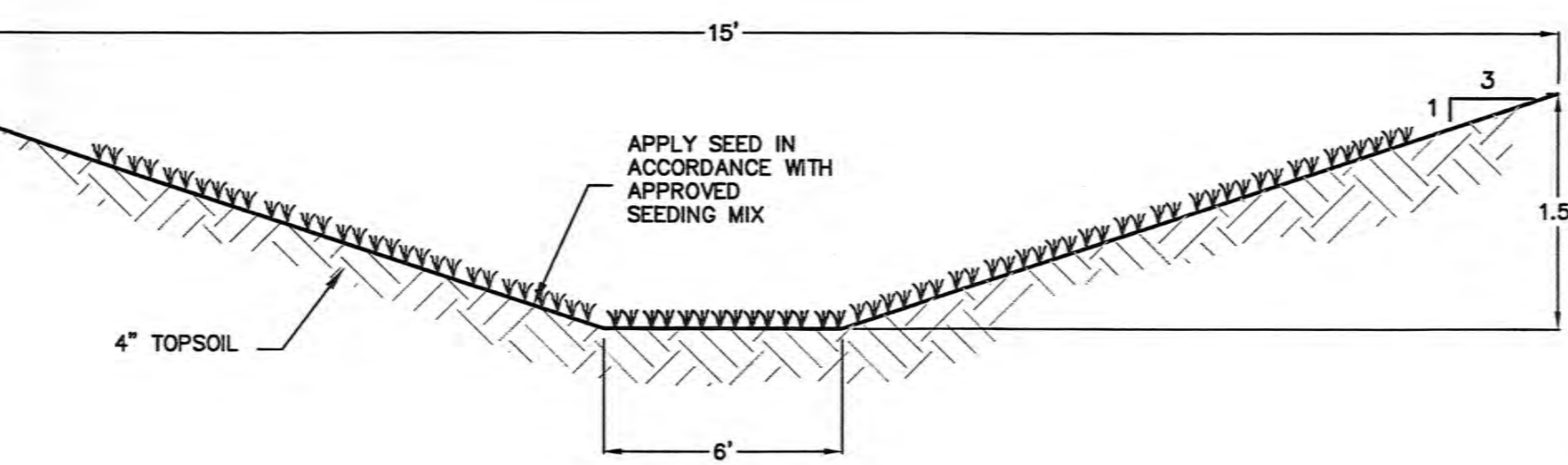


FIELD INLET DETAIL
N.T.S.



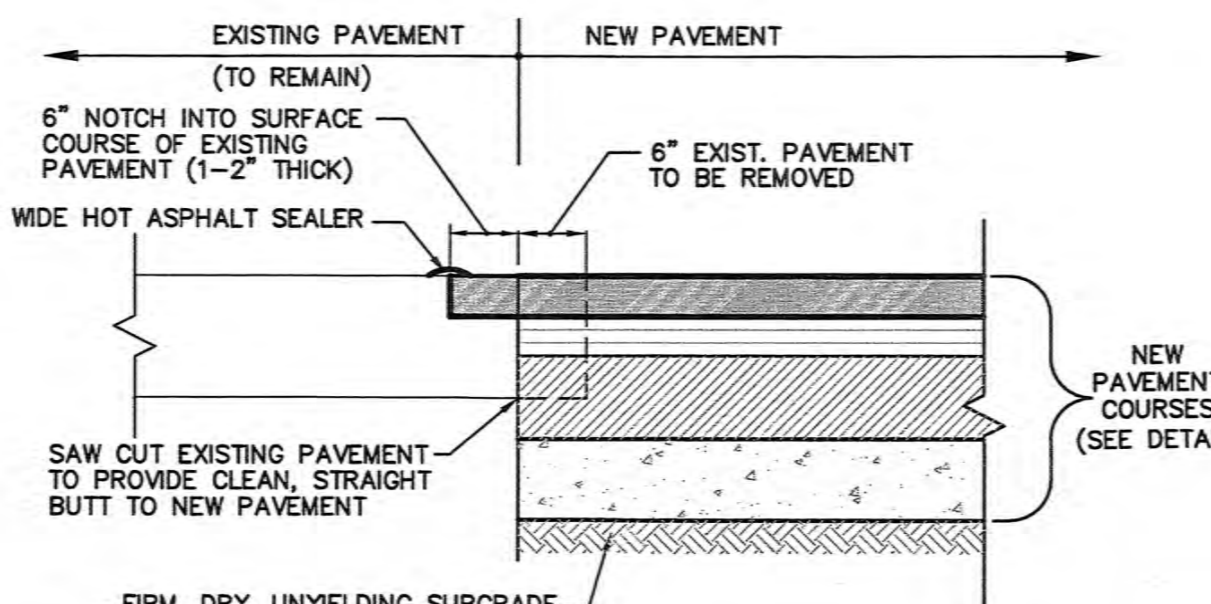
VEGETATED SWALE #1 & #3 DETAIL
N.T.S.

NOTE:
1. MOW AS REQUIRED TO MAINTAIN GRASS HEIGHT AT 4" TO 6"
2. REMOVE SEDIMENT OR DEBRIS BY HAND WHEN DEPTH REACHES 2"



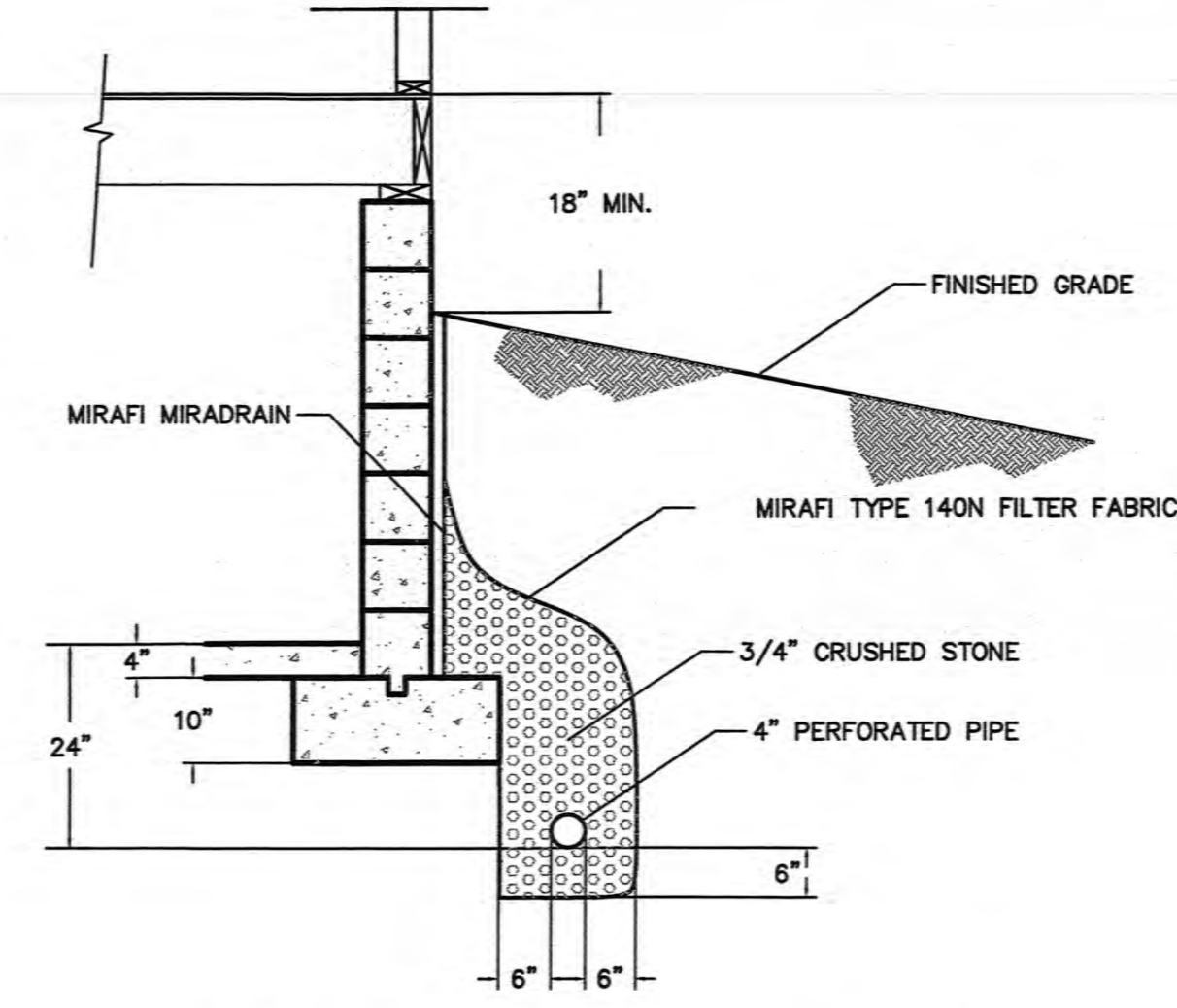
VEGETATED SWALE #2 DETAIL
N.T.S.

NOTE:
1. MOW AS REQUIRED TO MAINTAIN GRASS HEIGHT AT 4" TO 6"
2. REMOVE SEDIMENT OR DEBRIS BY HAND WHEN DEPTH REACHES 2"

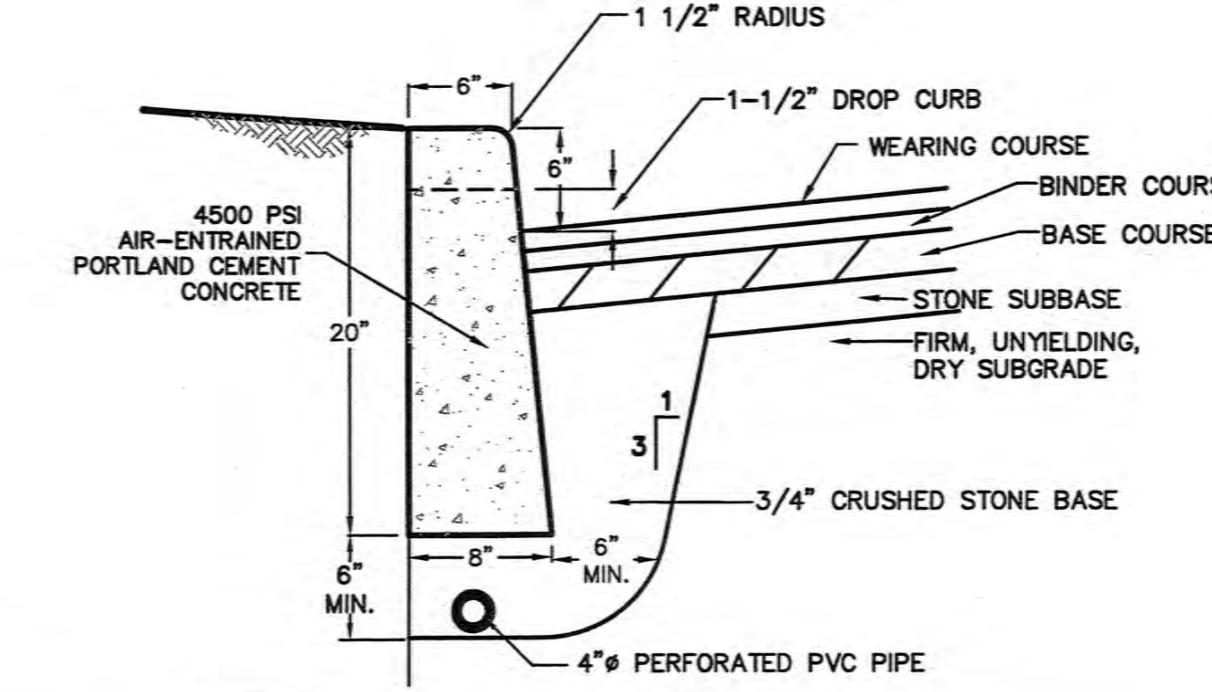


PAVEMENT BUTTING DETAIL
N.T.S.

NYSDOT NOTE:
THIS DETAIL IS ONLY FOR PAVEMENT BUTTING FOR PARKING LOTS WITHIN THE PROJECT SITE. ANY PAVEMENT BUTTING OR RESTORATION WITHIN THE NYSDOT RIGHT-OF-WAY MUST BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ALL NYSDOT STANDARDS AND SPECIFICATIONS.



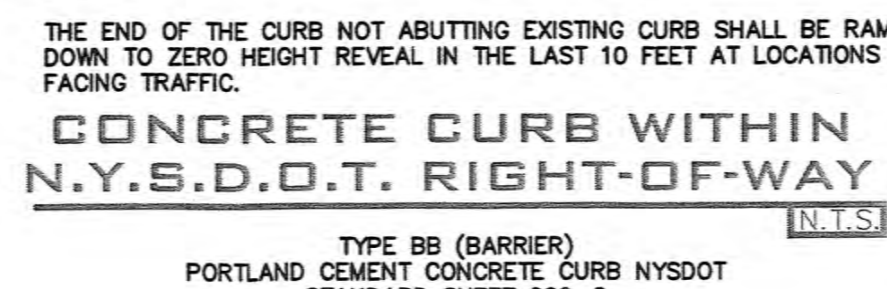
FOOTING DRAIN DETAIL
N.T.S.



CONCRETE CURB DETAIL
N.T.S.

NOTES:
1. CURB SHALL BE CAST IN PLACE.
2. EXPANSION JOINTS OF 3/16" CELLULOSE OR SIMILAR MATERIAL SHALL BE PLACED AT TEN FOOT INTERVALS, TO FULL DEPTH OF CURB.

NYSDOT NOTE:
THIS DETAIL IS ONLY FOR CURBS WITHIN THE PROJECT SITE. CURBS WITHIN THE NYSDOT RIGHT-OF-WAY MUST BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ALL NYSDOT STANDARDS AND SPECIFICATIONS.



CONCRETE CURB WITHIN N.Y.S.D.O.T. RIGHT-OF-WAY
N.T.S.

NOTE:
THE END OF THE CURB NOT ABUTTING EXISTING CURB SHALL BE RAMPED DOWN TO ZERO HEIGHT REVEAL IN THE LAST 10 FEET AT LOCATIONS FACING TRAFFIC.



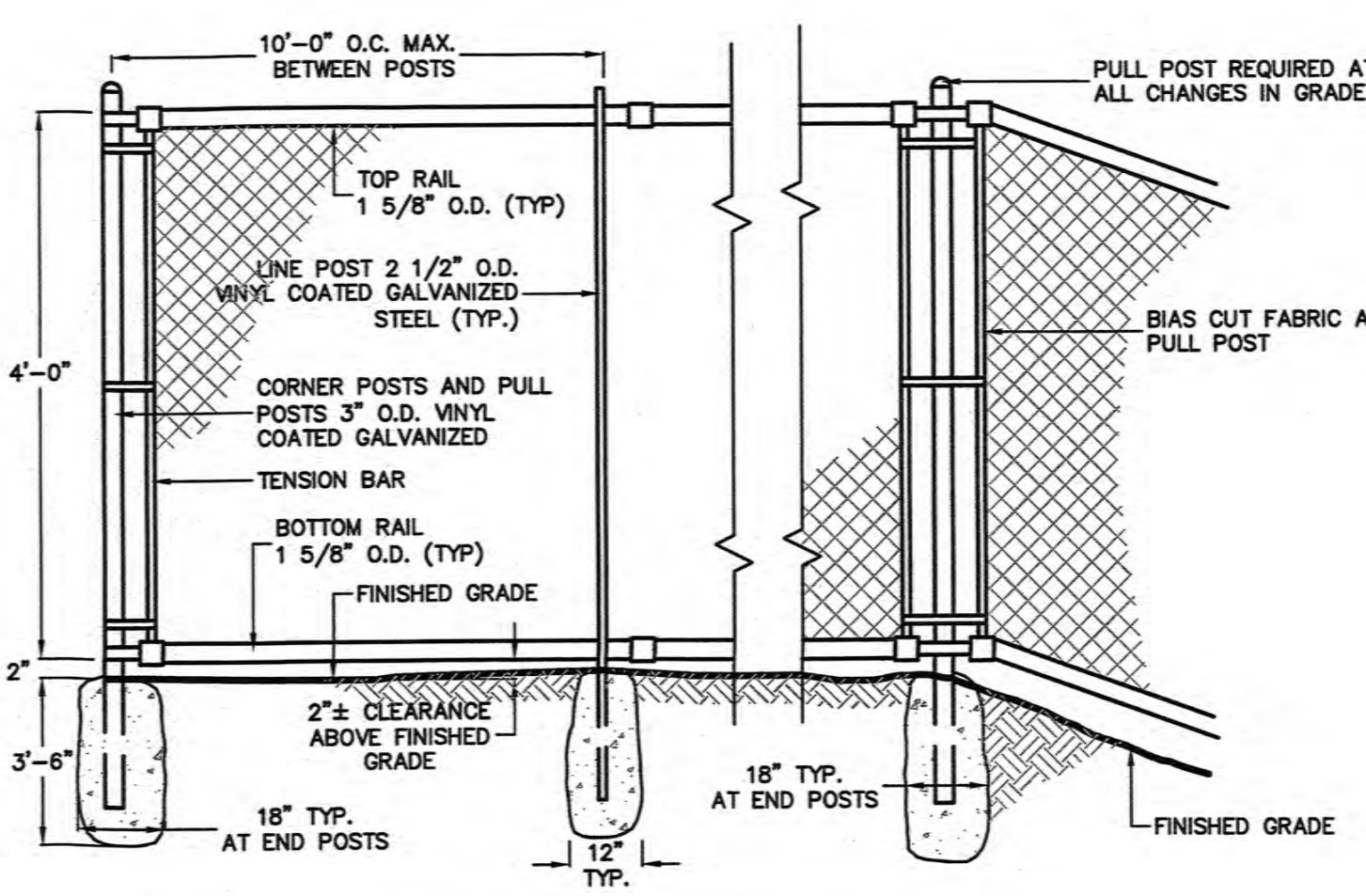
DETAIL-'NO PARKING' SIGN
N.T.S.



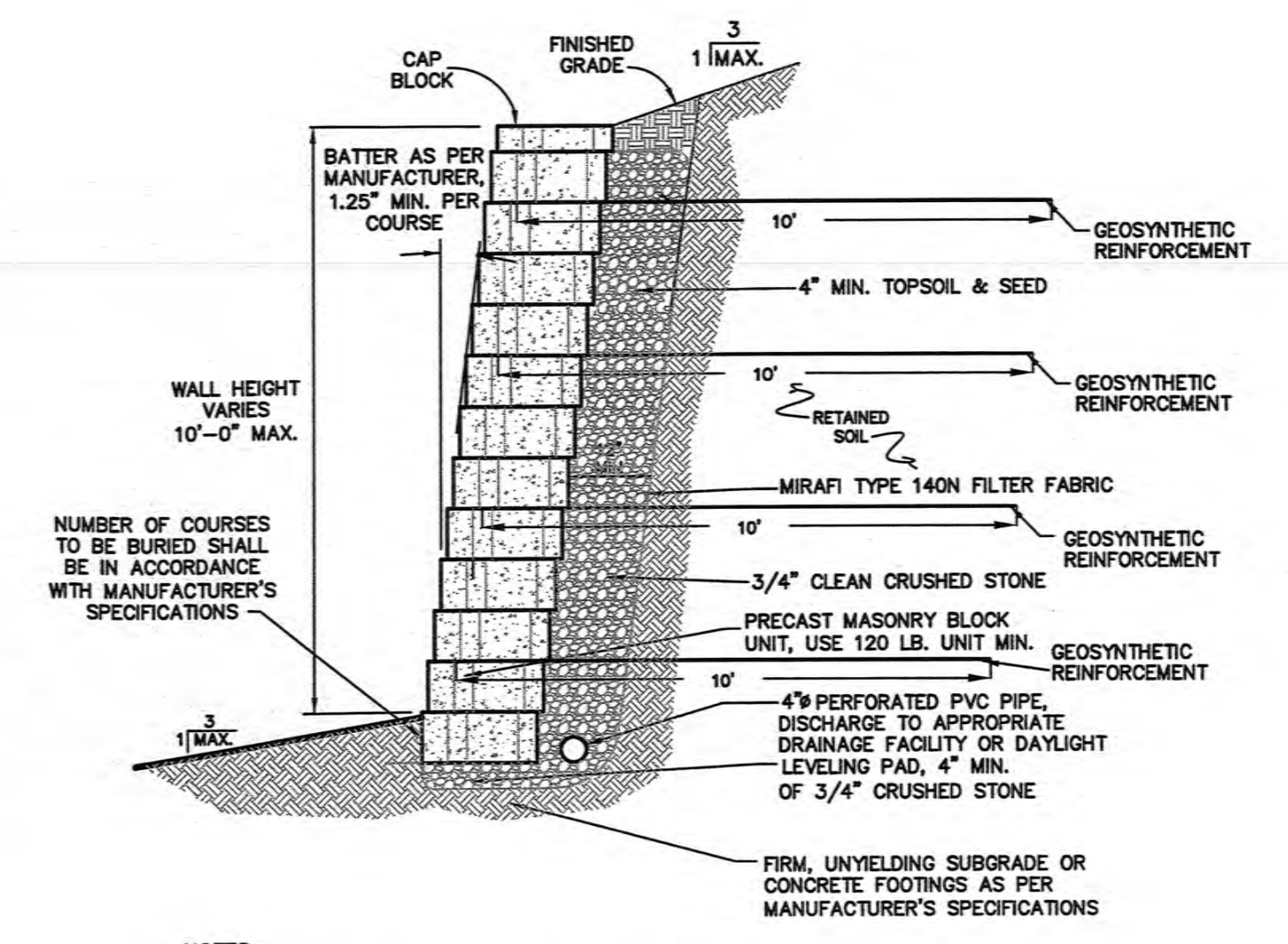
DETAIL-'HANDICAPPED SPACE' SIGN
N.T.S.



DETAIL-'PERMIT REQUIRED' SIGN
N.T.S.

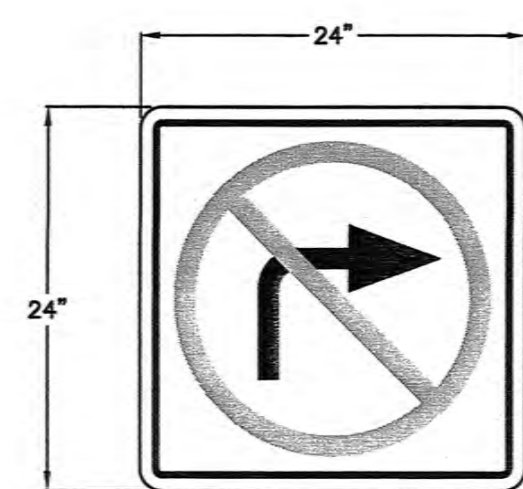


DETAIL-CHAIN LINK FENCE
N.T.S.

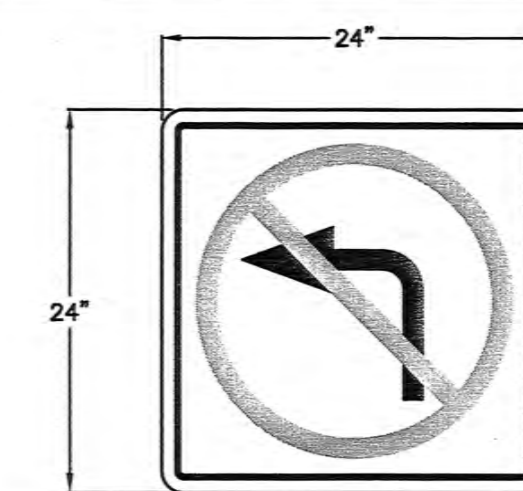


PRECAST MASONRY BLOCK RETAINING WALL DETAIL
N.T.S.

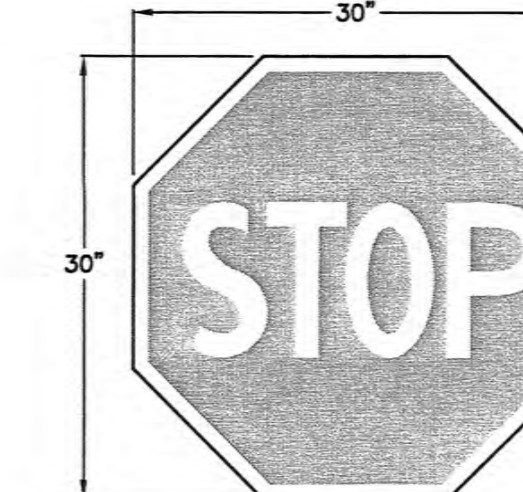
NOTES:
1. MATERIALS AND CONSTRUCTION SHALL BE AS SPECIFIED BY TECHNO-BLOC OR APPROVED EQUAL.
2. EMBEDMENT DEPTH OF GEOSYNTHETIC EARTH REINFORCEMENT AS PER SPECIFICATIONS OF WALL MANUFACTURER.
3. WALL TO BE DESIGNED TO SUPPORT H-20 LOADING CONDITIONS.
4. SOIL CONDITIONS AND BEARING CAPACITY TO BE VERIFIED BY ENGINEER PRIOR TO CONSTRUCTION OF RETAINING WALLS.



R3-1 DETAIL-'NO RIGHT TURN' SIGN
N.T.S.



R3-2 DETAIL-'NO LEFT TURN' SIGN
N.T.S.



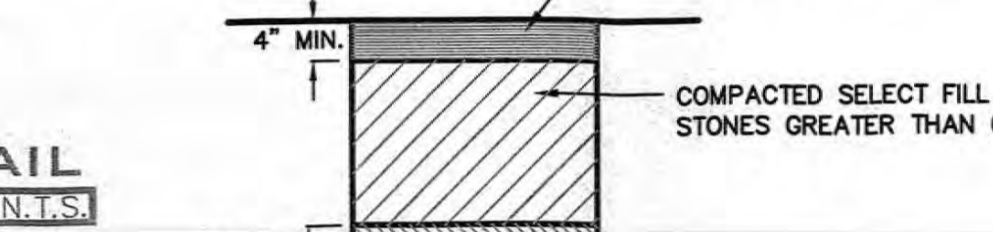
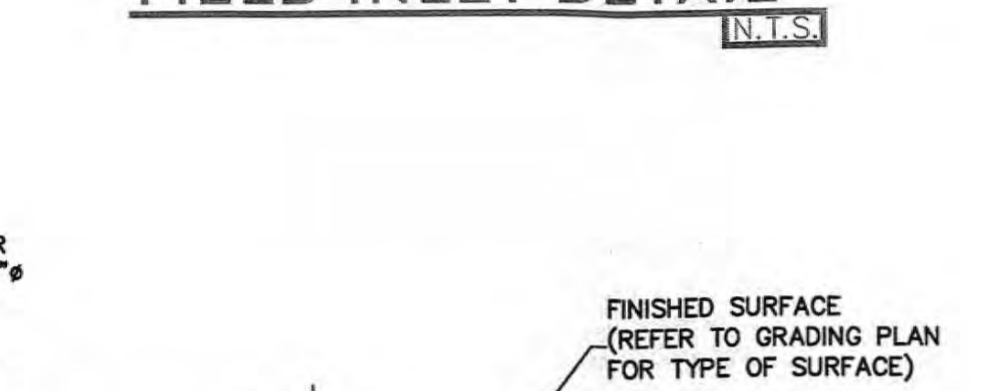
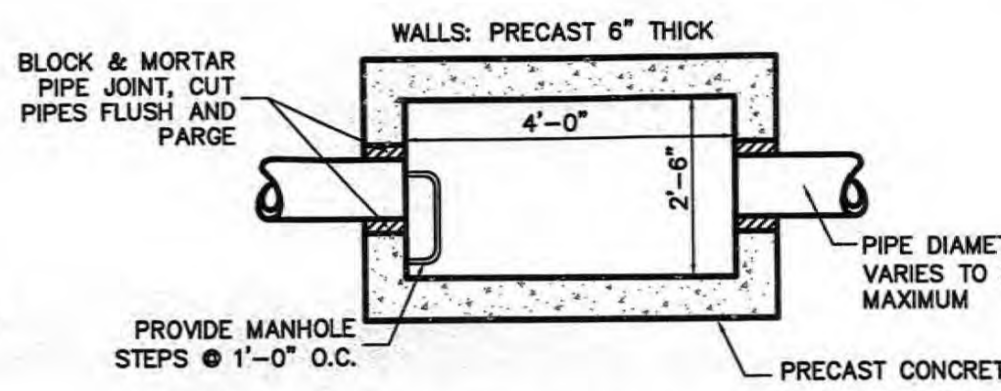
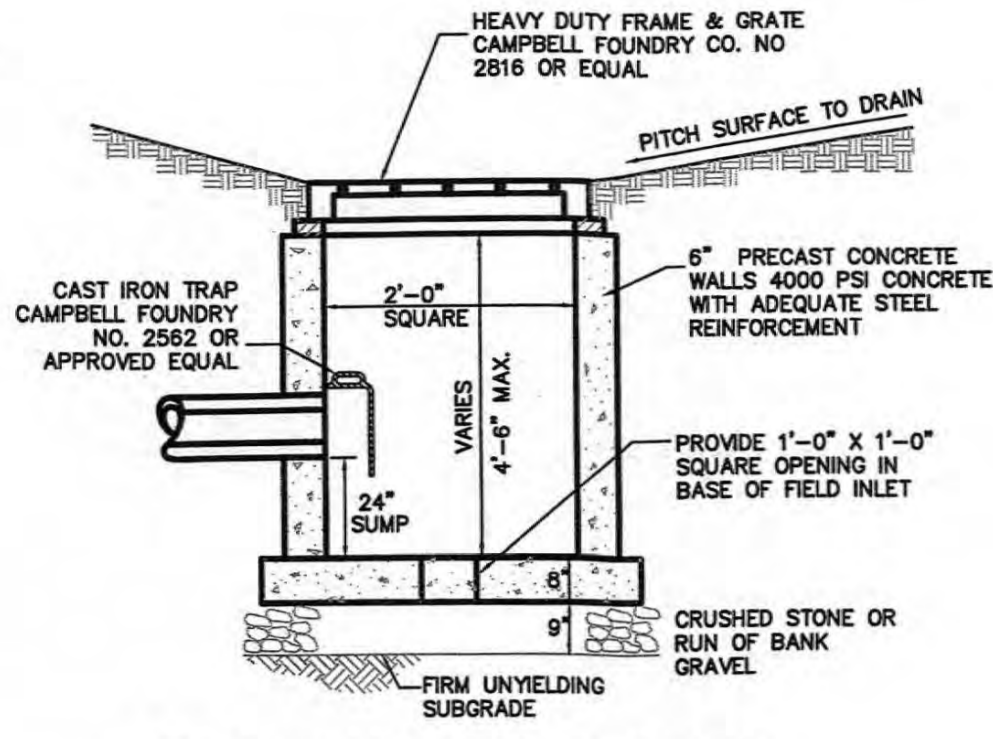
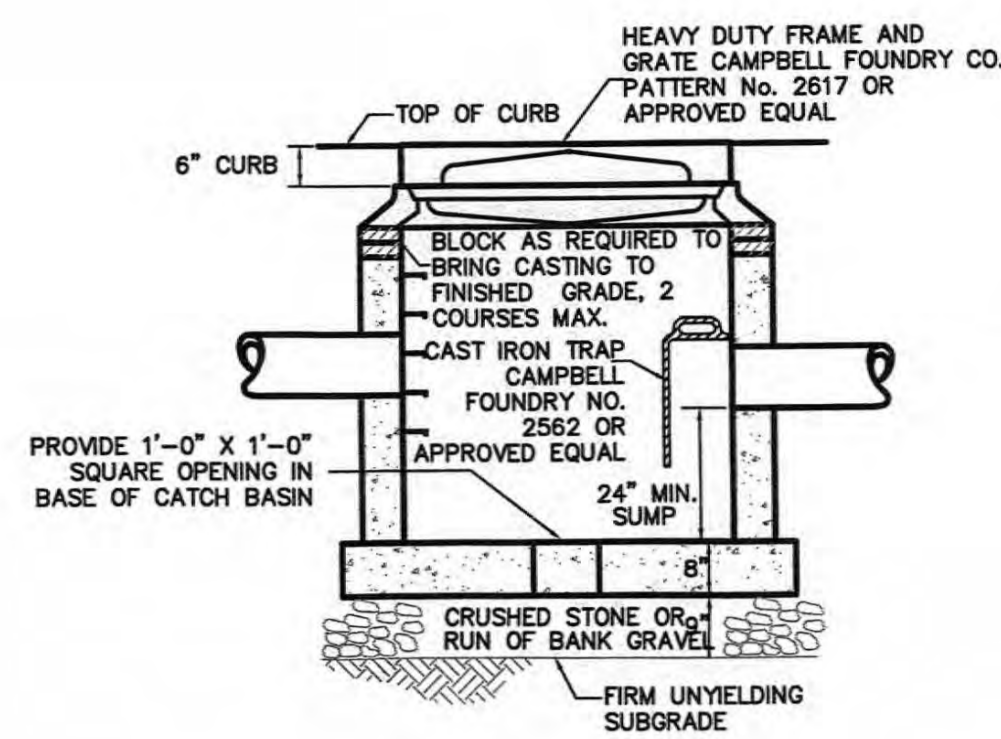
R1-1 DETAIL-'STOP' SIGN
N.T.S.

NO.	REVISION	DATE	DESCRIPTION
18	BUILDING REVISION	10/22/15	
17	GENERAL REVISIONS	9/21/15	
16	AS PER DRAINAGE REVIEW COMMENTS	3/30/15	
15	AS PER DRAINAGE REVIEW COMMENTS	3/9/15	

BROOKER ENGINEERING, PLLC
 PROFESSIONAL ENGINEERS
 LAND USE - DEVELOPMENT - STRUCTURAL - INTERIOR DESIGN - SURVEYING
 100 WEST 17TH STREET, 10TH FLOOR
 NEW YORK, NY 10011
 PHONE: (212) 397-4411 FAX: (212) 397-4411
 LICENSE NO. 060229

HILLSIDE COMMERCIAL PARK
 TOWN OF ORANGE TOWN
 ROCKLAND COUNTY, NEW YORK
CONSTRUCTION DETAILS (1 OF 3)

Job number: 57007
 Drawn by: JO S.S.
 Original Date: 08/29/07
 Last Revised Date: 10/22/15
 Scale: N.T.S.
 Drawing Number: 12

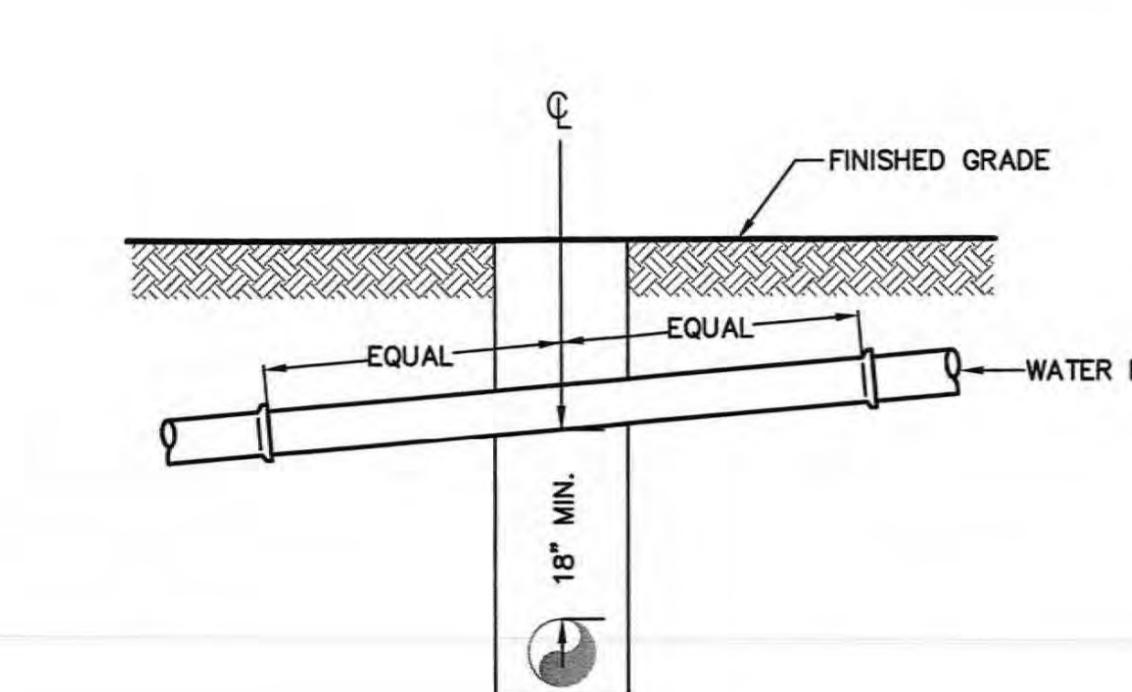
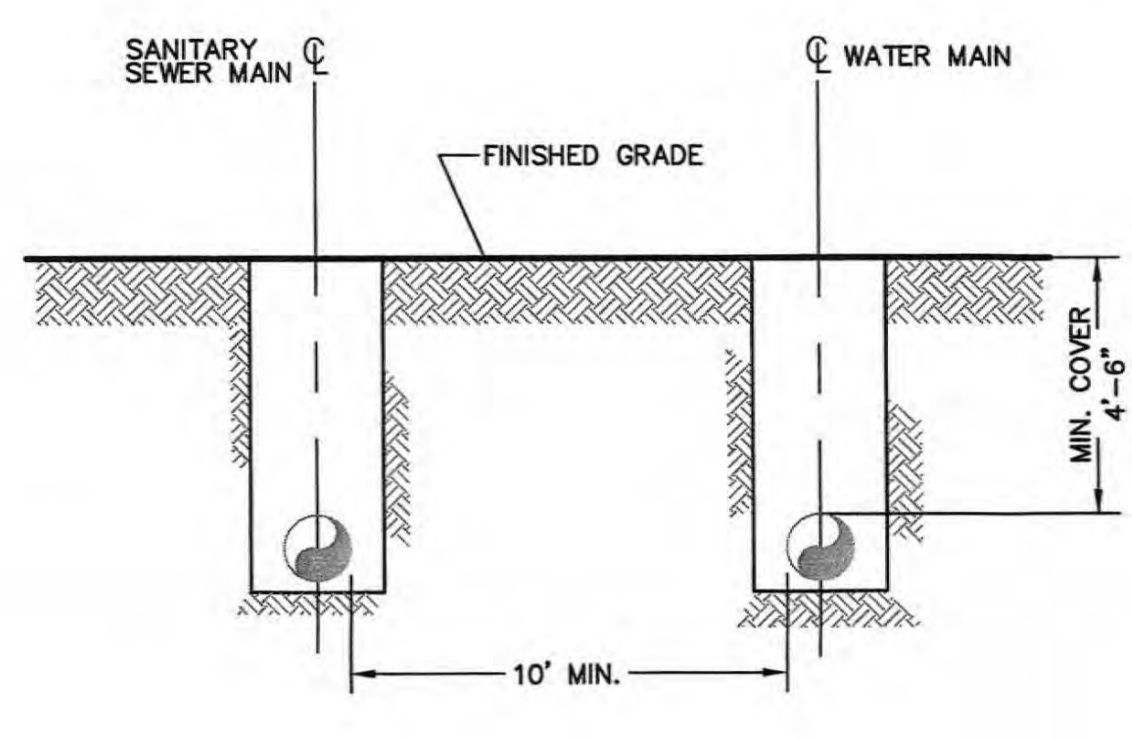


BASIN NOTES:

A. ALL BERM FILL TO BE COMPACTED TO 95% MODIFIED PROCTOR MINIMUM DENSITY, LOW PERMEABLE SOIL, FREE OF ORGANIC MATERIALS, TO BE UTILIZED IN BERM CONSTRUCTION.

B. A LANDSCAPING PLAN FOR THE STORMWATER POND AND ITS BUFFER SHALL BE PREPARED TO INDICATE HOW AQUATIC AND TERRESTRIAL AREAS WILL BE VEGETATIVELY STABILIZED AND ESTABLISHED.

C. SHOP DRAWINGS OF ALL STRUCTURES TO BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

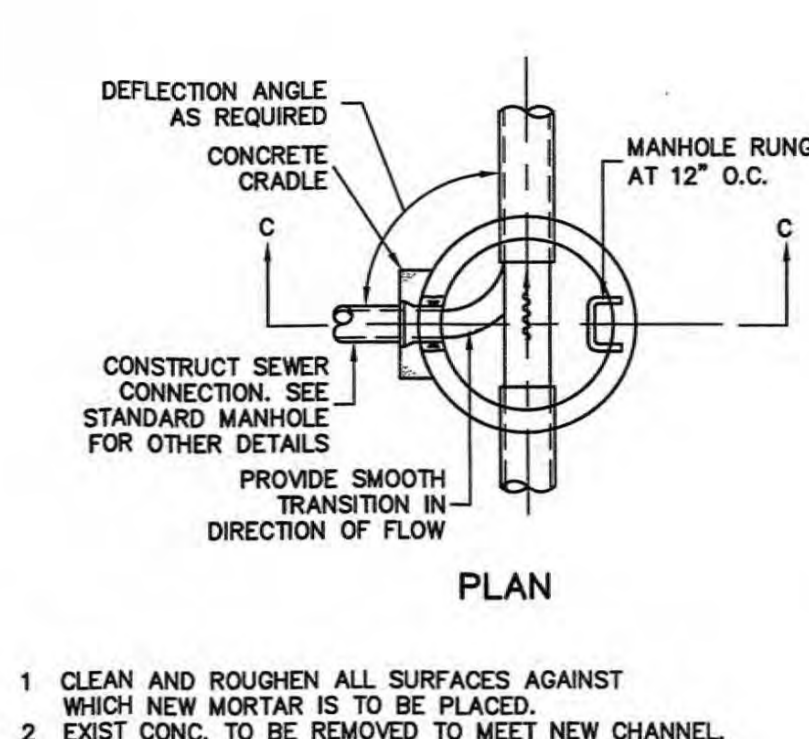


1. AT LOCATIONS WHERE A 10 FOOT MINIMUM HORIZONTAL SEPARATION BETWEEN WATER AND SEWER MAINS CANNOT BE MAINTAINED, WATER AND SEWER MAINS SHALL BE LAID EACH IN A SEPARATE TRENCH SO THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN.

2. AT LOCATIONS WHERE WATER AND SEWER MAINS CROSS:

a. A MINIMUM 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED.

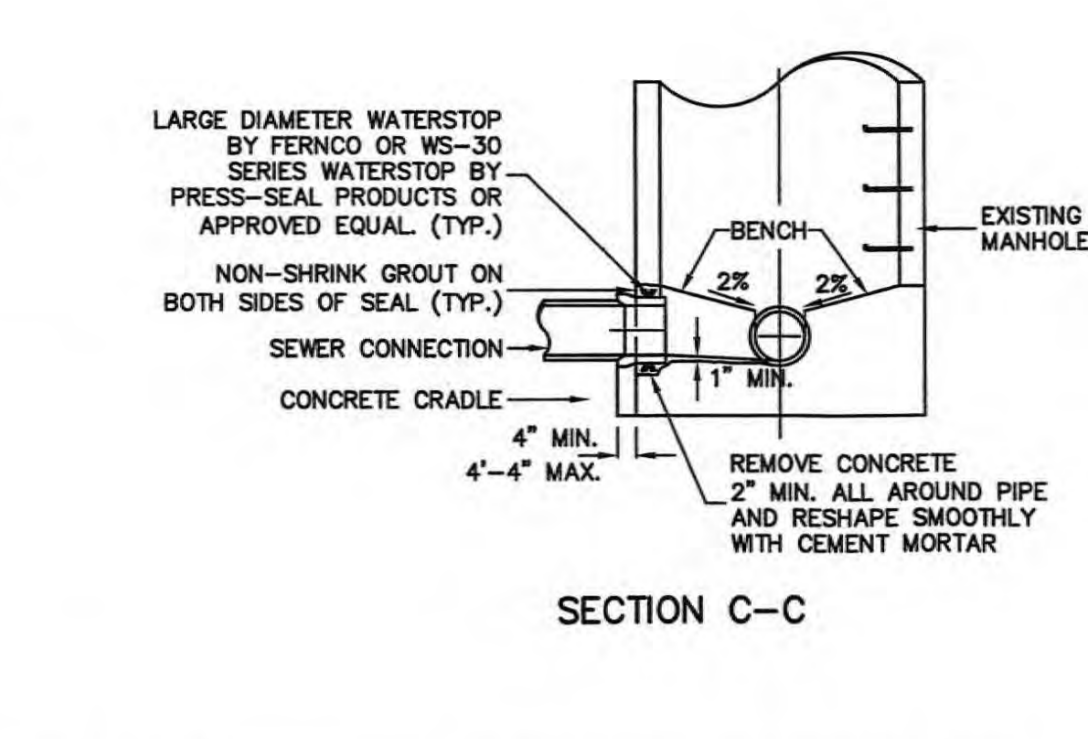
b. A FULL LENGTH OF SEWER PIPE AND FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO THAT ALL PIPE JOINTS ARE LOCATED AS FAR AS POSSIBLE FROM THE POINT OF CROSSING.



1. CLEAN AND ROUGHEN ALL SURFACES AGAINST WHICH NEW MORTAR IS TO BE PLACED.

2. EXIST CONC. TO BE REMOVED TO MEET NEW CHANNEL. CONC. TO BE REMOVED TO A LINE AT LEAST 1-INCH BEYOND FINISHED CHANNEL LINE AND FINISHED OFF TO NEW LINE WITH CEMENT MORTAR.

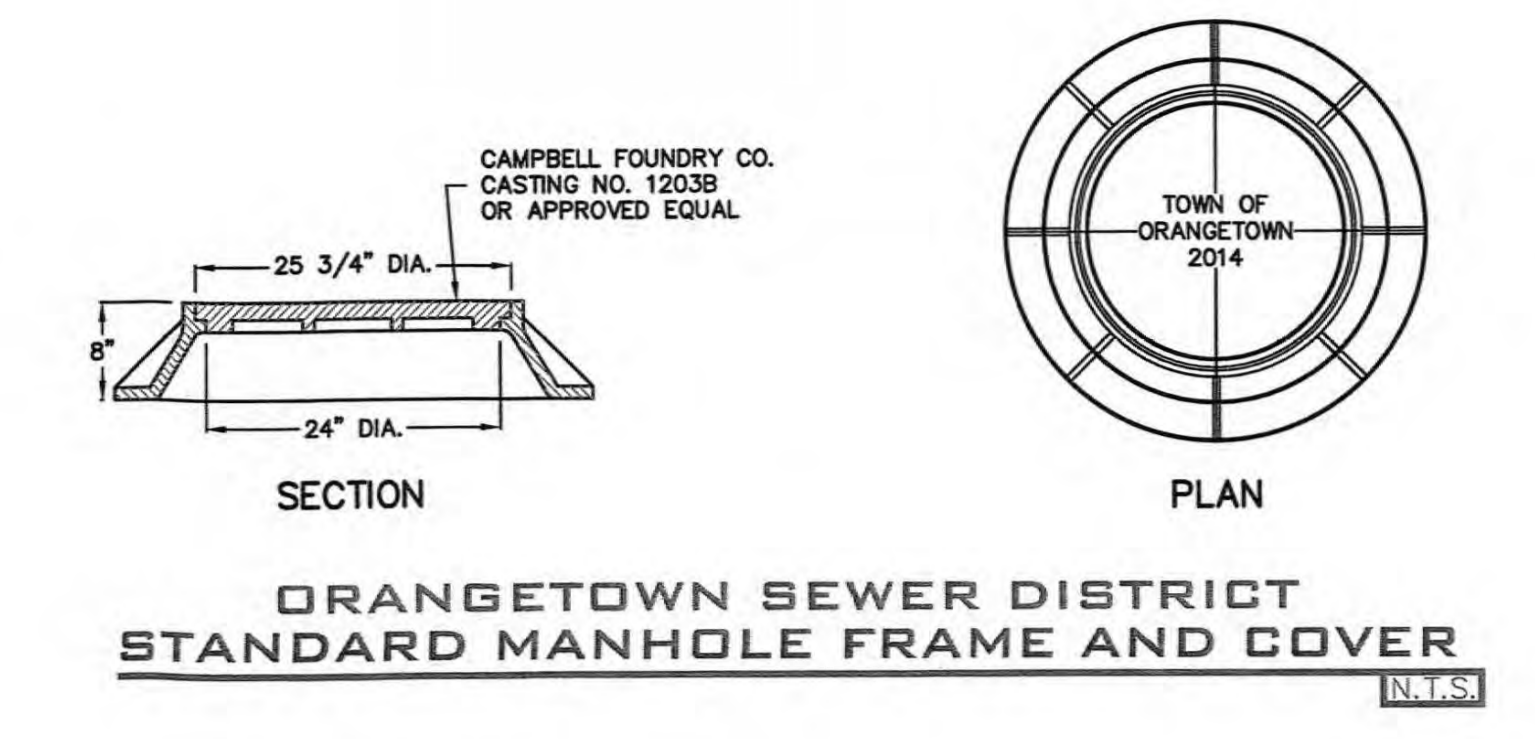
3. WHERE PIPE IS ABANDONED, PLUG PIPE WITH 12-INCH MIN. CONC. AND BUILDUP CHANNEL TO ELEV. OF EXISTING BENCH TO INVERT FLOW OF NEW MH CHANNEL. THE PIPE PENETRATION MUST NOT BE THROUGH THE CONE SECTION OR A MANHOLE JOINT NOR SHALL IT INTERFERE WITH THE MANHOLE RUNGS.



1. CLEAN AND ROUGHEN ALL SURFACES AGAINST WHICH NEW MORTAR IS TO BE PLACED.

2. EXIST CONC. TO BE REMOVED TO MEET NEW CHANNEL. CONC. TO BE REMOVED TO A LINE AT LEAST 1-INCH BEYOND FINISHED CHANNEL LINE AND FINISHED OFF TO NEW LINE WITH CEMENT MORTAR.

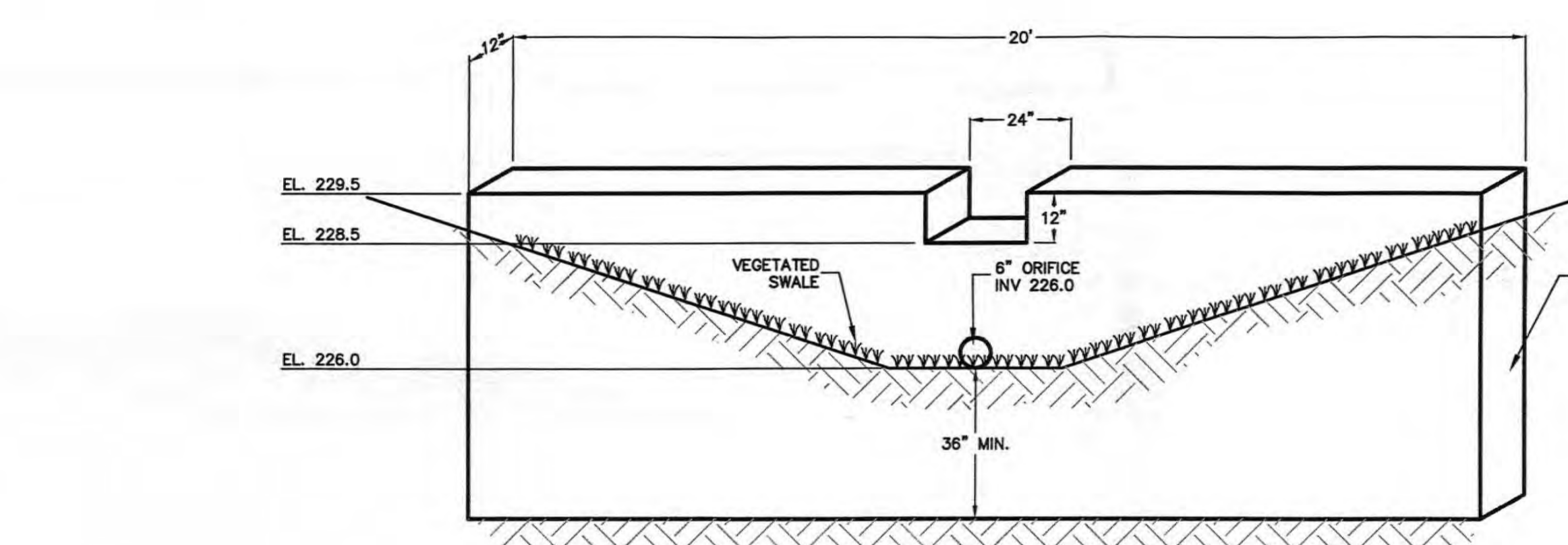
3. WHERE PIPE IS ABANDONED, PLUG PIPE WITH 12-INCH MIN. CONC. AND BUILDUP CHANNEL TO ELEV. OF EXISTING BENCH TO INVERT FLOW OF NEW MH CHANNEL. THE PIPE PENETRATION MUST NOT BE THROUGH THE CONE SECTION OR A MANHOLE JOINT NOR SHALL IT INTERFERE WITH THE MANHOLE RUNGS.



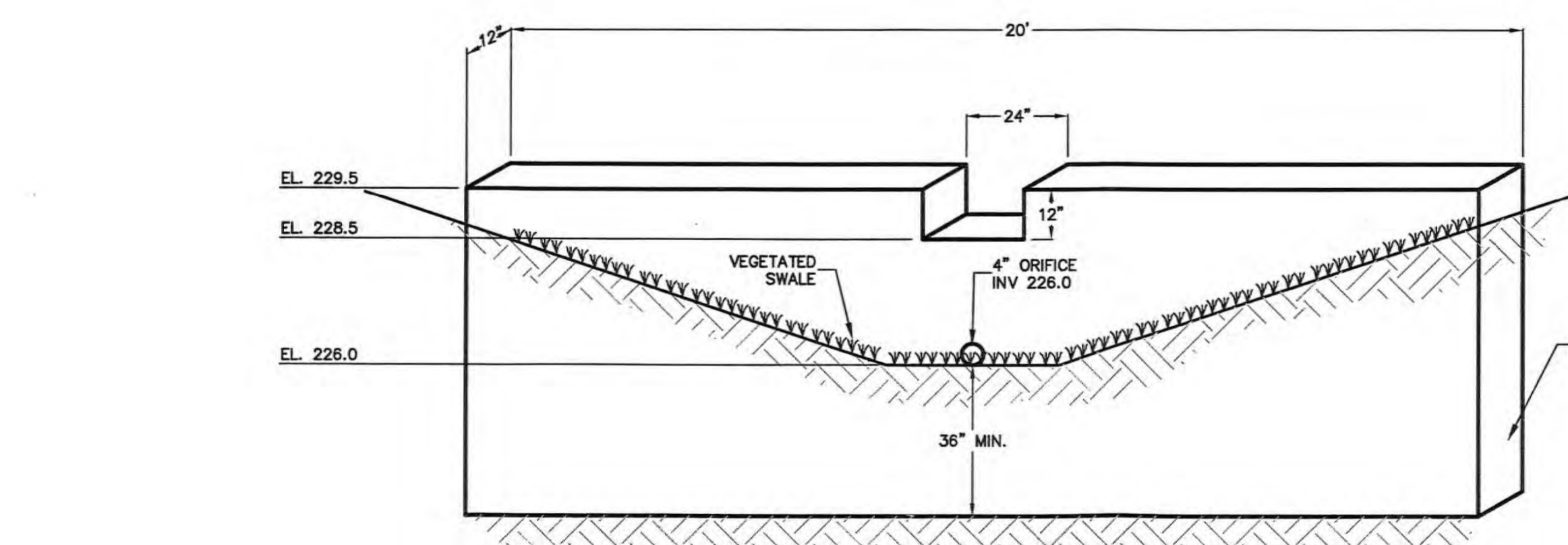
1. CLEAN AND ROUGHEN ALL SURFACES AGAINST WHICH NEW MORTAR IS TO BE PLACED.

2. EXIST CONC. TO BE REMOVED TO MEET NEW CHANNEL. CONC. TO BE REMOVED TO A LINE AT LEAST 1-INCH BEYOND FINISHED CHANNEL LINE AND FINISHED OFF TO NEW LINE WITH CEMENT MORTAR.

3. WHERE PIPE IS ABANDONED, PLUG PIPE WITH 12-INCH MIN. CONC. AND BUILDUP CHANNEL TO ELEV. OF EXISTING BENCH TO INVERT FLOW OF NEW MH CHANNEL. THE PIPE PENETRATION MUST NOT BE THROUGH THE CONE SECTION OR A MANHOLE JOINT NOR SHALL IT INTERFERE WITH THE MANHOLE RUNGS.



CHECK DAM-VEGETATED SWALE #1 DETAIL

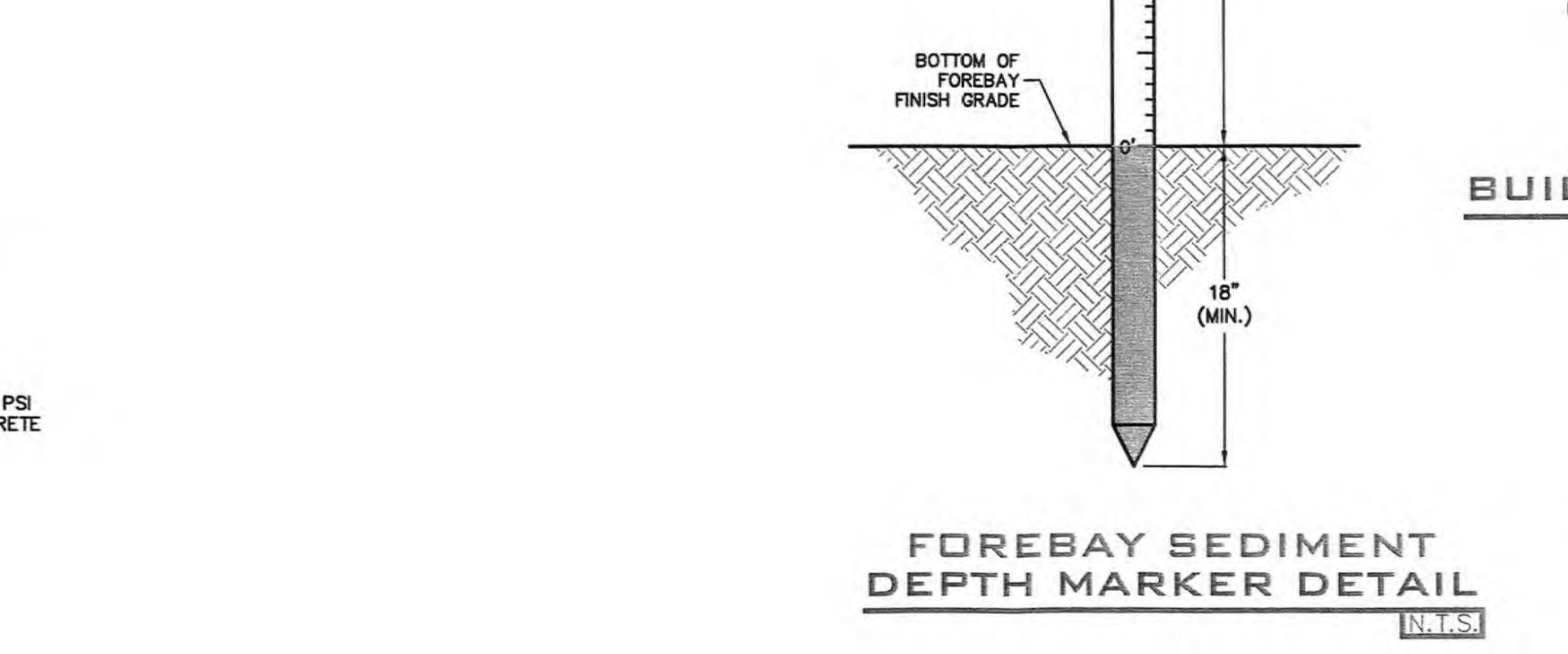


CHECK DAM-VEGETATED SWALE #3 DETAIL

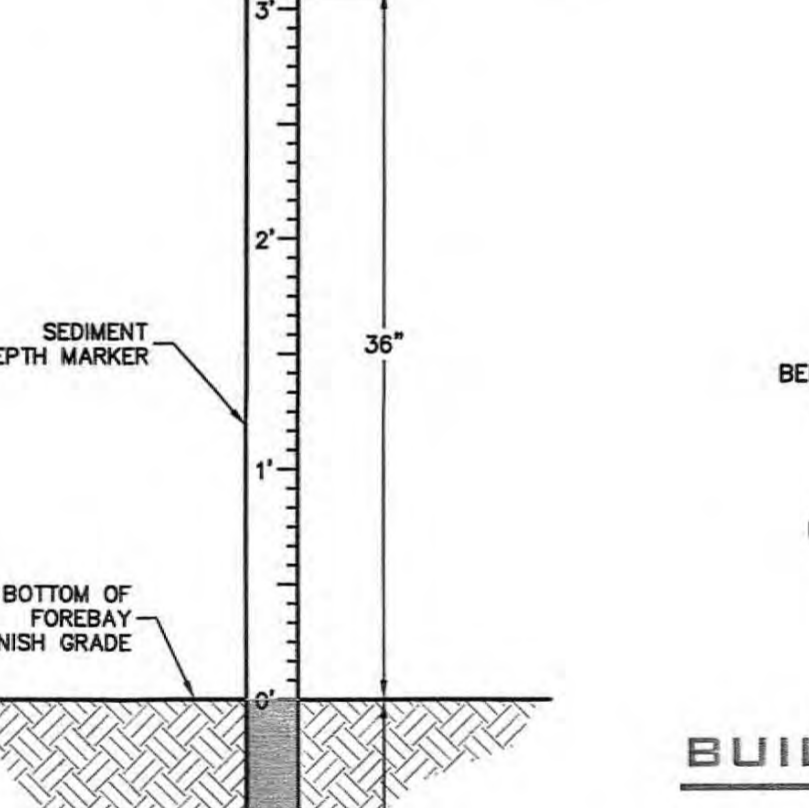
NOTES:
CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR CHECK DAMS FOR APPROVAL BY ENGINEER PRIOR TO CONSTRUCTION.



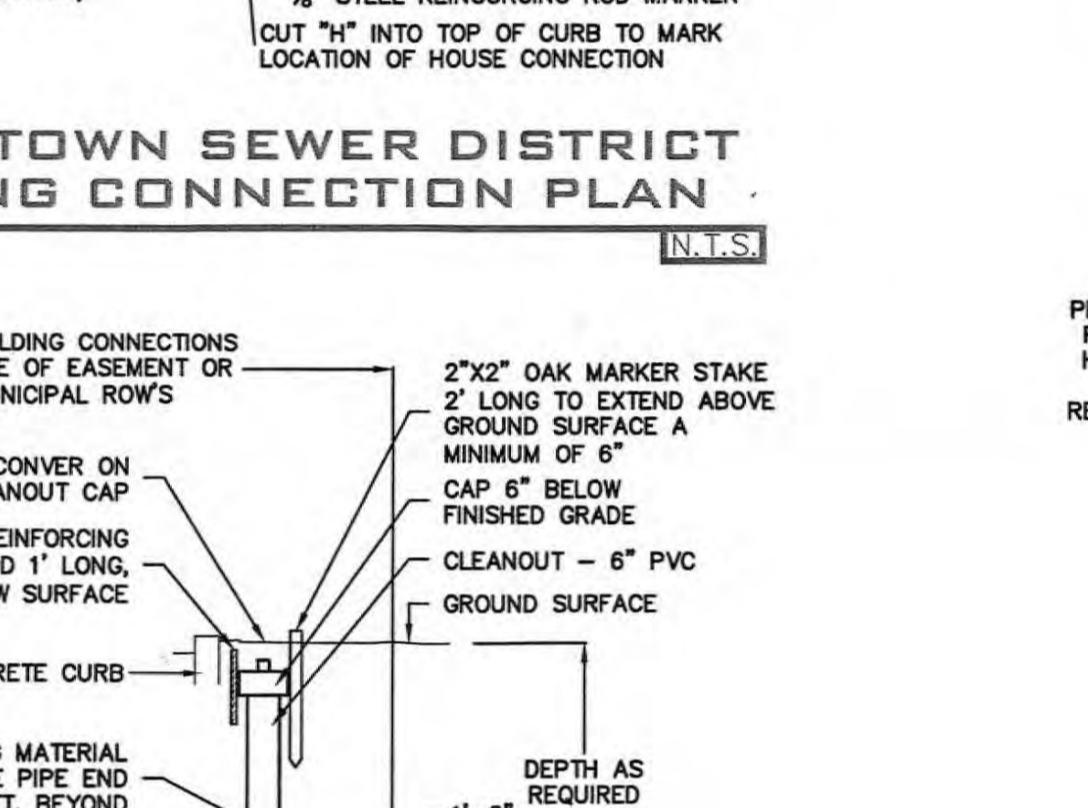
ORANGETOWN SEWER DISTRICT BUILDING CONNECTION ELEVATION



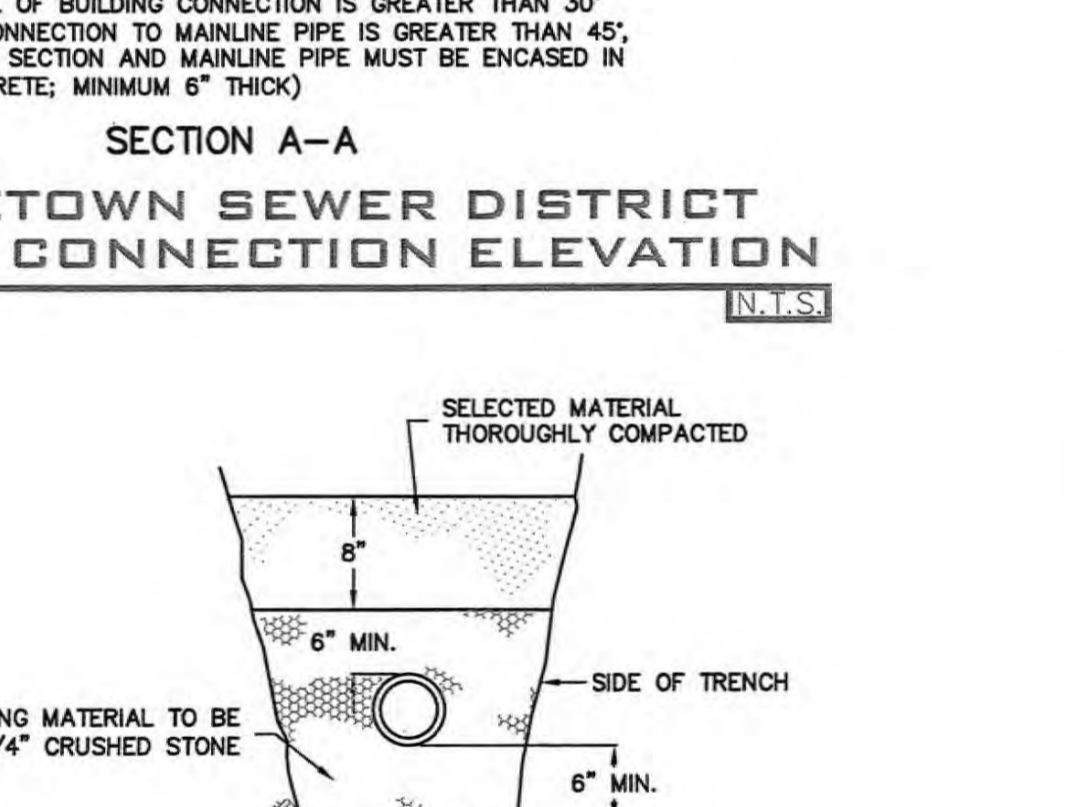
ORANGETOWN SEWER DISTRICT BUILDING CONNECTION TRENCH DETAIL



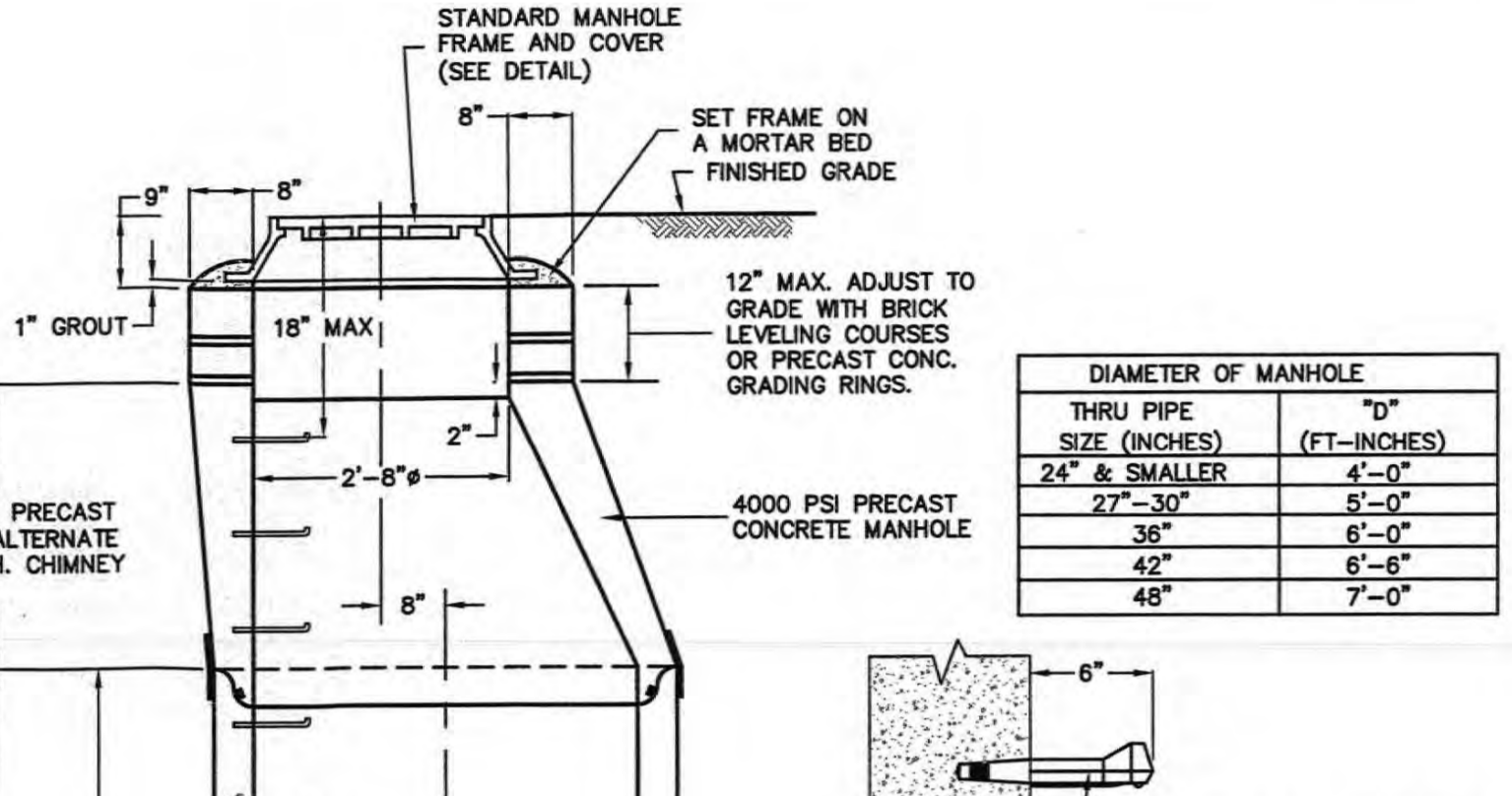
FOREBAY SEDIMENT DEPTH MARKER DETAIL



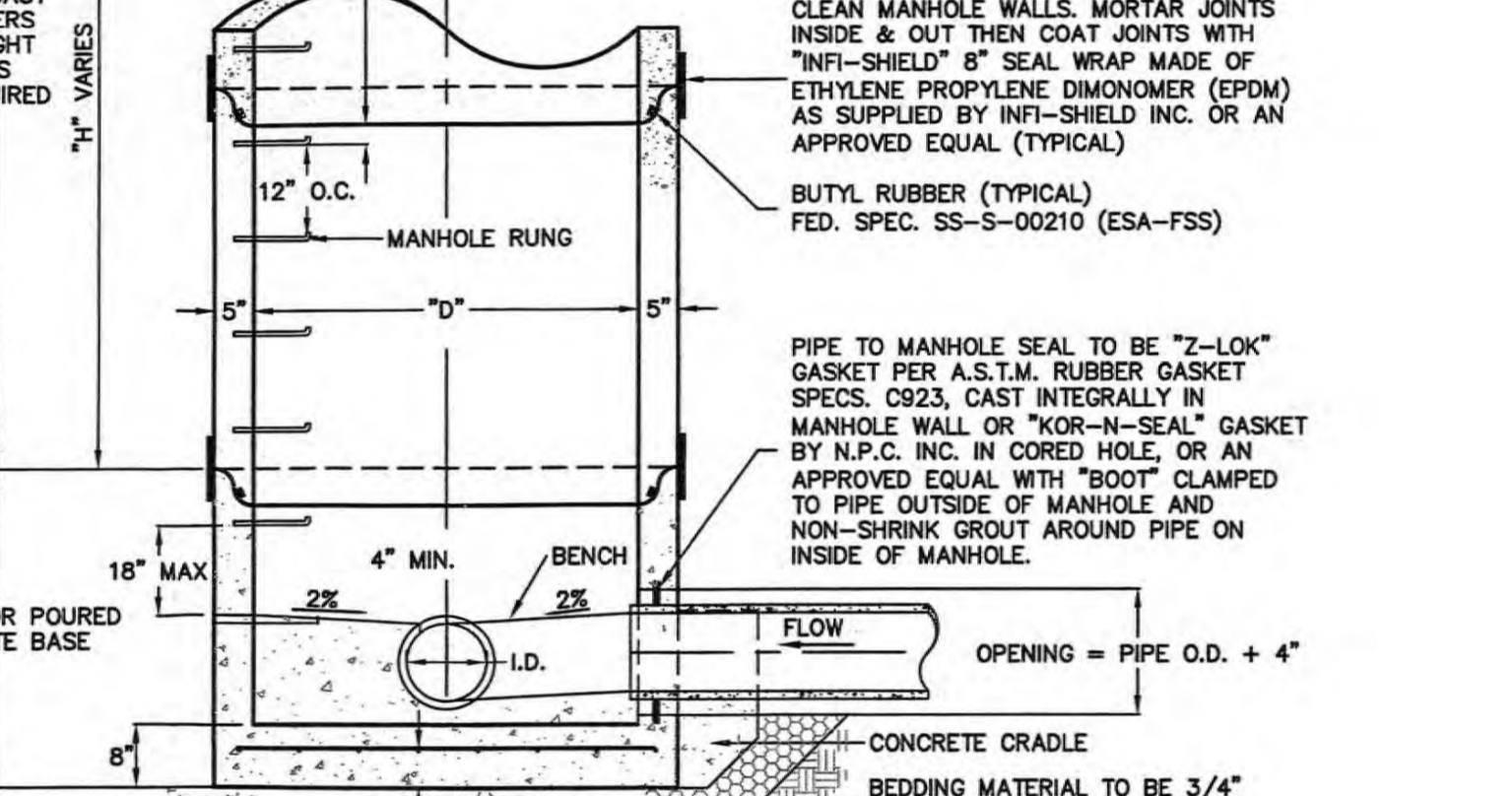
ORANGETOWN SEWER DISTRICT BUILDING CONNECTION PLAN



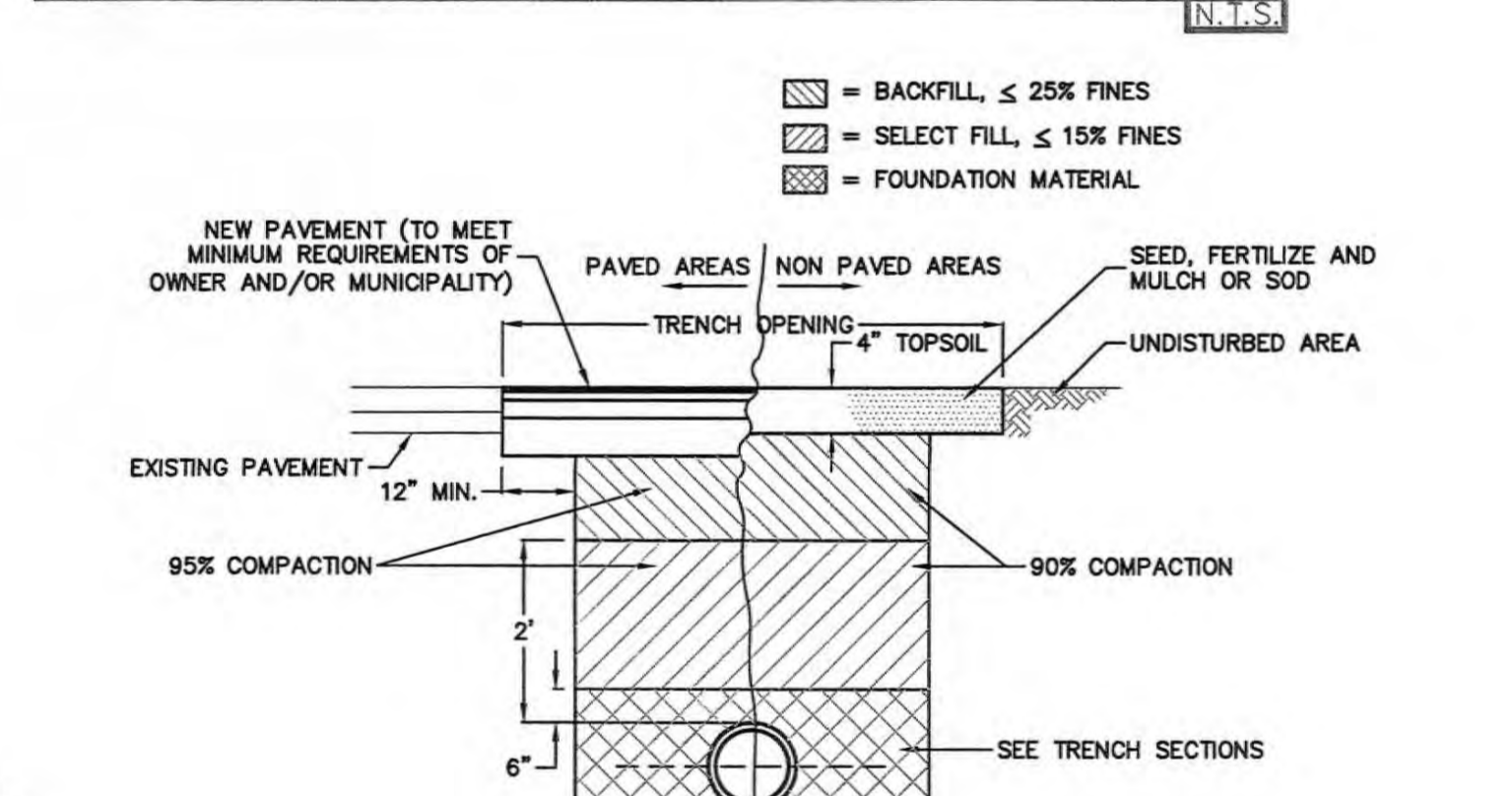
ORANGETOWN SEWER DISTRICT BUILDING CONNECTION TRENCH DETAIL



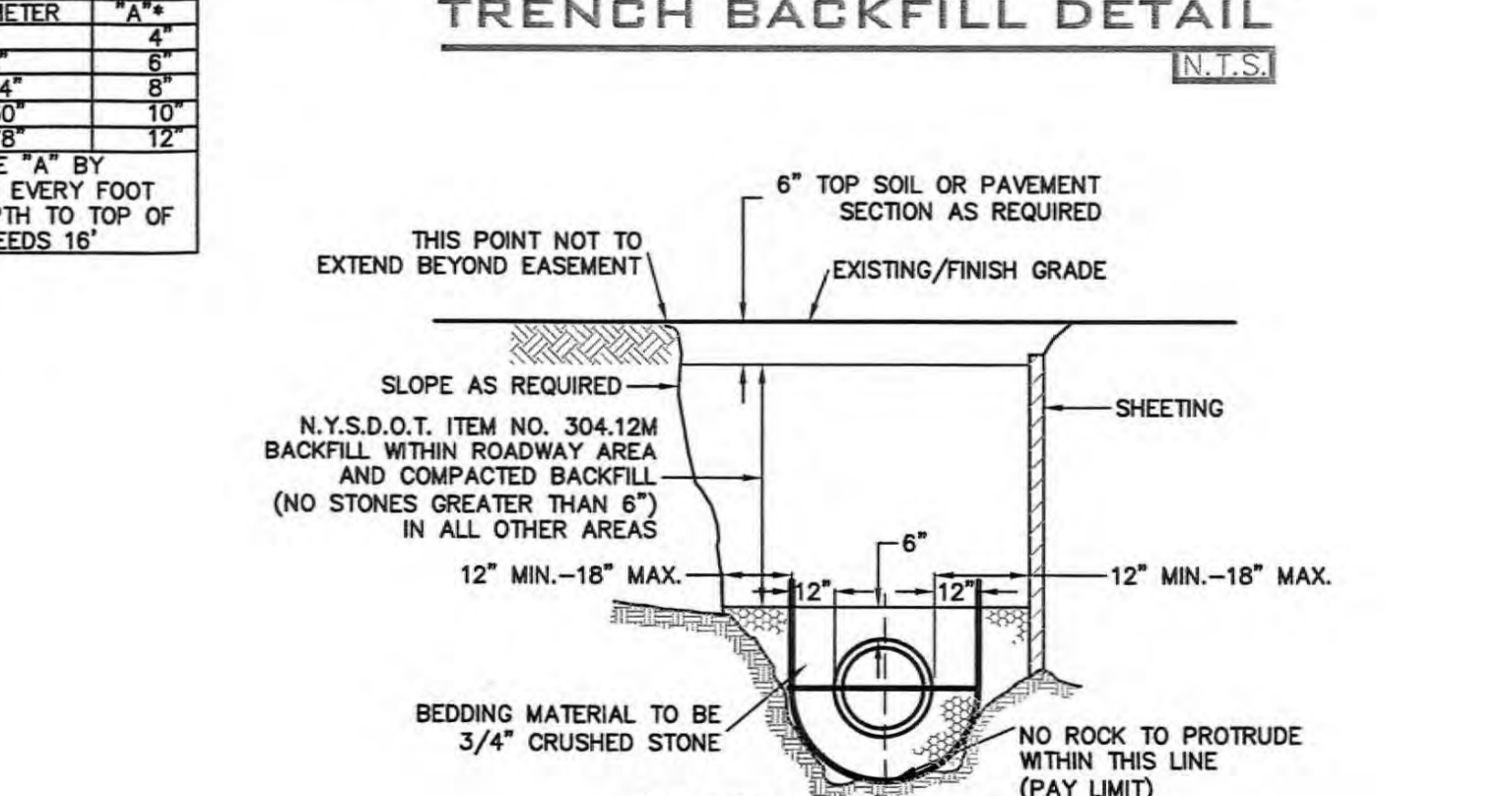
ORANGETOWN SEWER DISTRICT STANDARD MANHOLE FRAME AND COVER



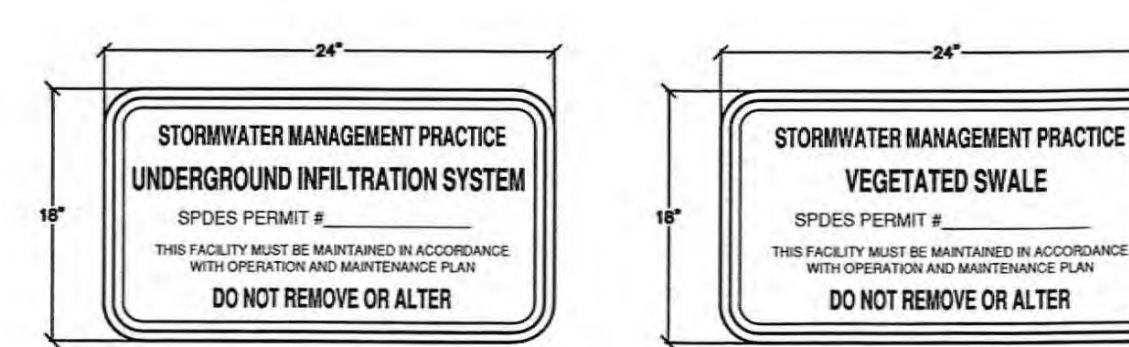
ORANGETOWN SEWER DISTRICT PRECAST STANDARD MANHOLE DETAIL



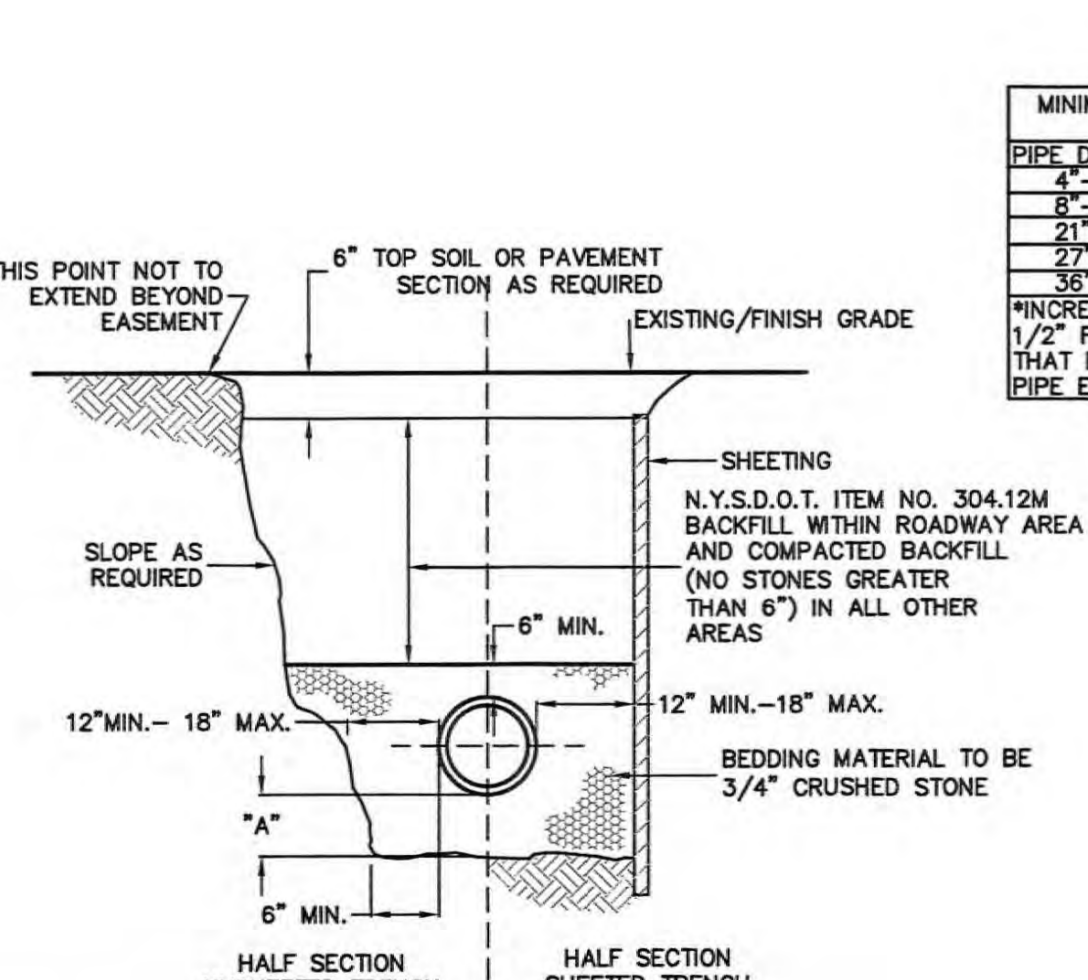
ORANGETOWN SEWER DISTRICT TRENCH BACKFILL DETAIL



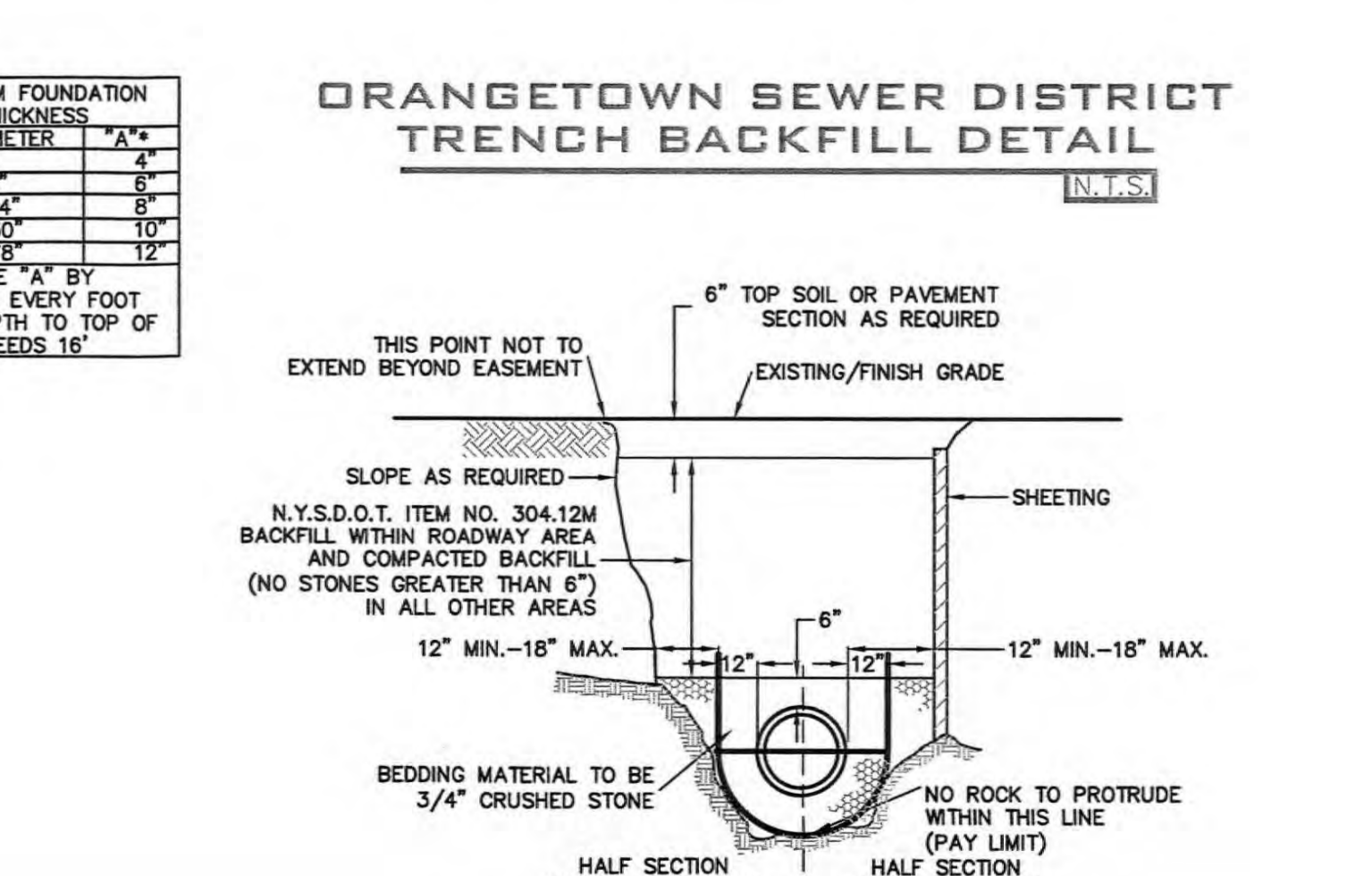
ORANGETOWN SEWER DISTRICT TRENCH IN ROCK DETAIL



STORMWATER MANAGEMENT PRACTICE IDENTIFICATION SIGNS

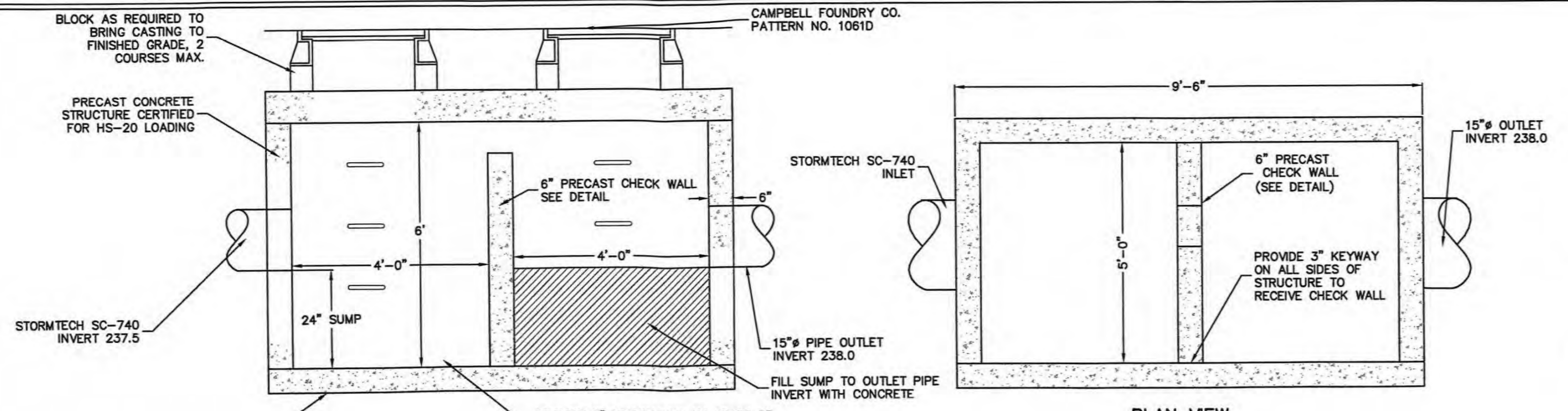


ORANGETOWN SEWER DISTRICT TRENCH IN EARTH DETAIL

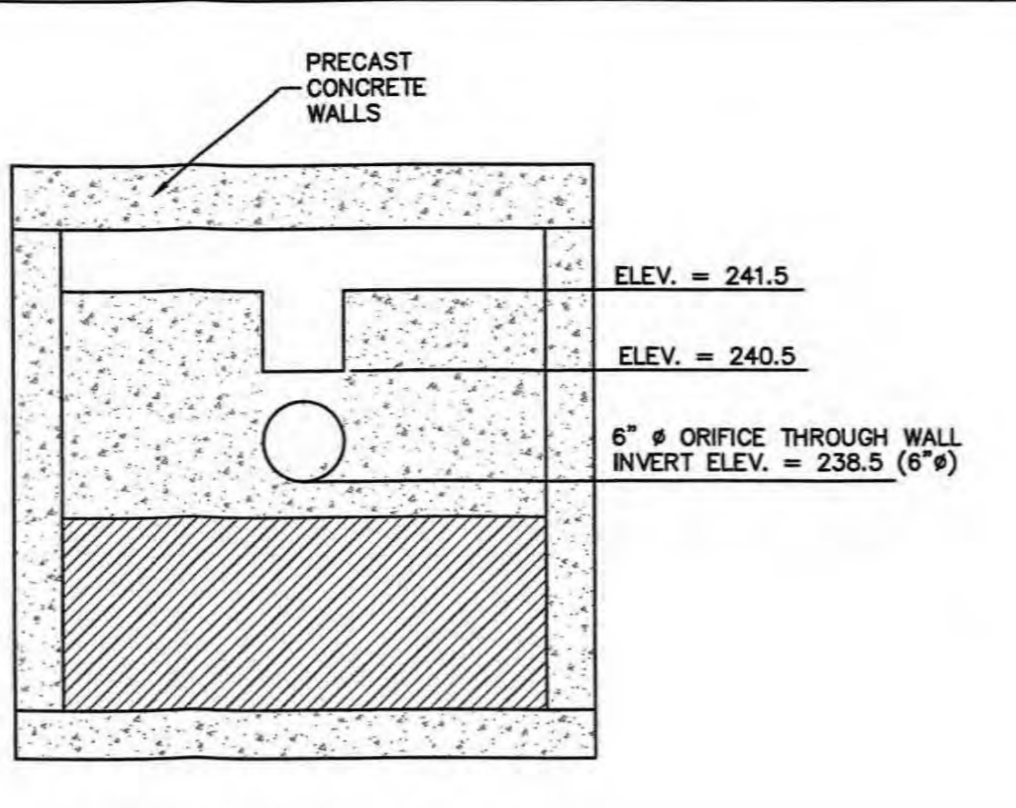


ORANGETOWN SEWER DISTRICT TRENCH IN ROCK DETAIL

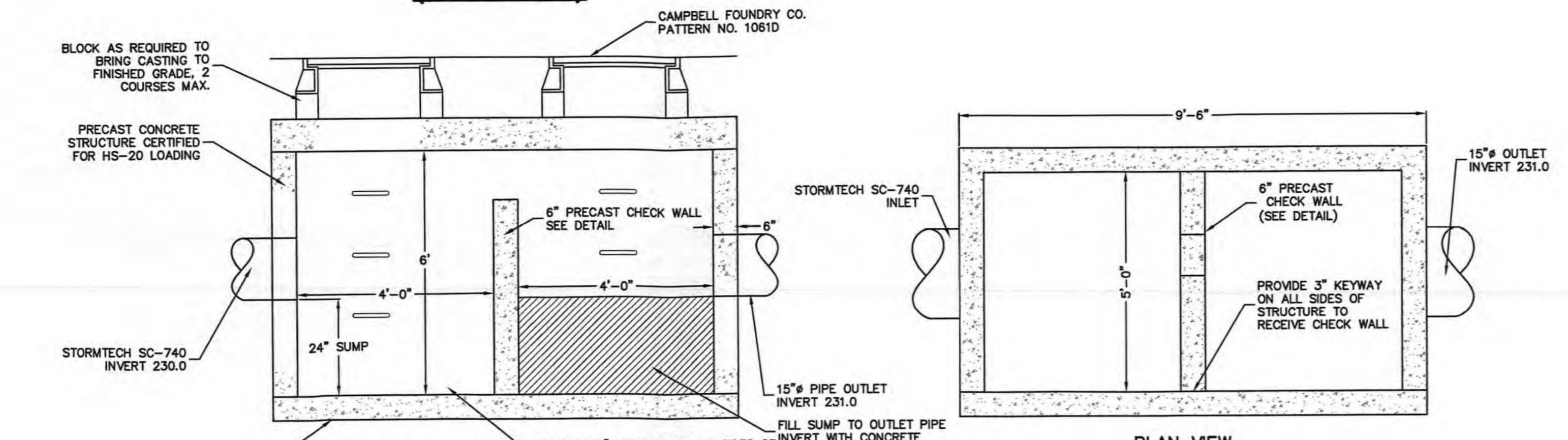
BROOKER ENGINEERING, PLLC		10/22/15	BUILDING REVISION	DATE	DESCRIPTION
PROFESSIONAL ENGINEERS		9/21/15	GENERAL REVISIONS	REV.	
LAND USE - DEVELOPMENT - STRUCTURAL - HYDROLOGICAL - SURVEYING		3/30/15	AS PER DRAINAGE REVIEW COMMENTS	REV.	
781 LAKEVIEW AVENUE, SUITE 1000		3/9/15	AS PER DRAINAGE REVIEW COMMENTS	REV.	
SUFFERN, NEW YORK 10901					
MAHWAH, NEW JERSEY 07430					
PHONE: (908) 357-4411 FAX: (908) 357-1888					
WWW.BROOKERENGINEERING.COM					
N.E.S.					
HILLSIDE COMMERCIAL PARK					
TOWN OF ORANGETOWN					
ROCKLAND COUNTY, NEW YORK					
CONSTRUCTION DETAILS (2 OF 3)					
Job number:	57007				
Drawn by:	JO	Checked by:	S.S.		
Original Date:	08/29/07				
Last Revised Date:	10/22/15				
Scale:	N.T.S.				
Drawing Number:	13				



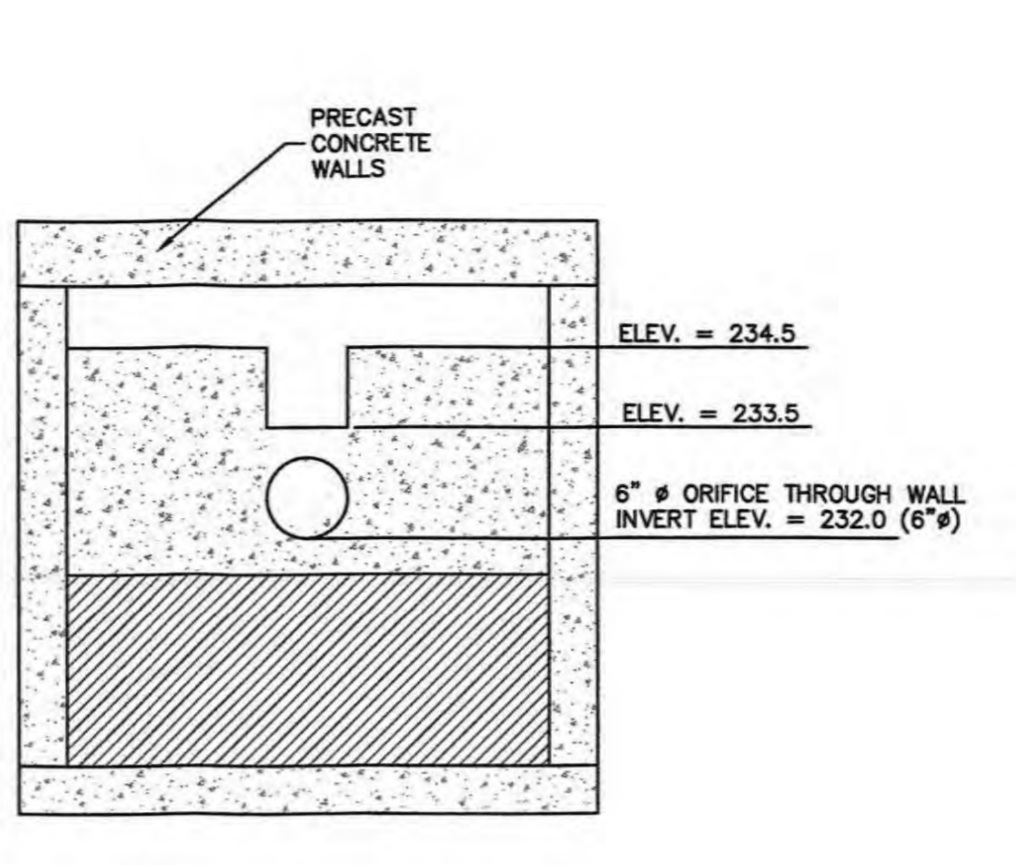
OUTLET STRUCTURE DETAIL (NORTHERLY)
N.T.S.



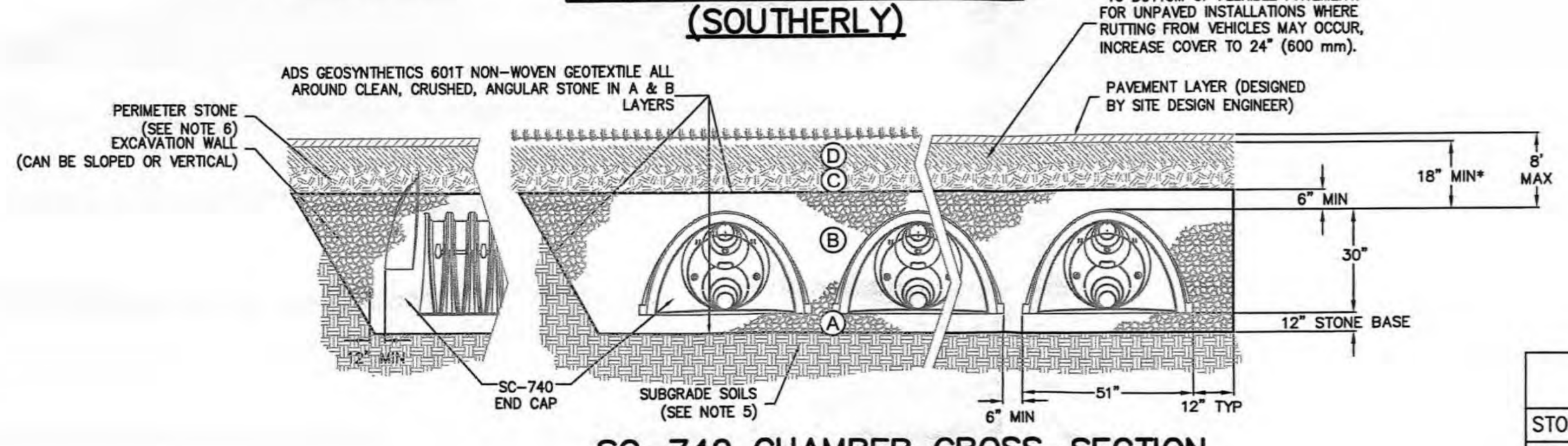
CHECK WALL DETAIL (NORTHERLY)
N.T.S.



OUTLET STRUCTURE DETAIL (SOUTHERLY)
N.T.S.



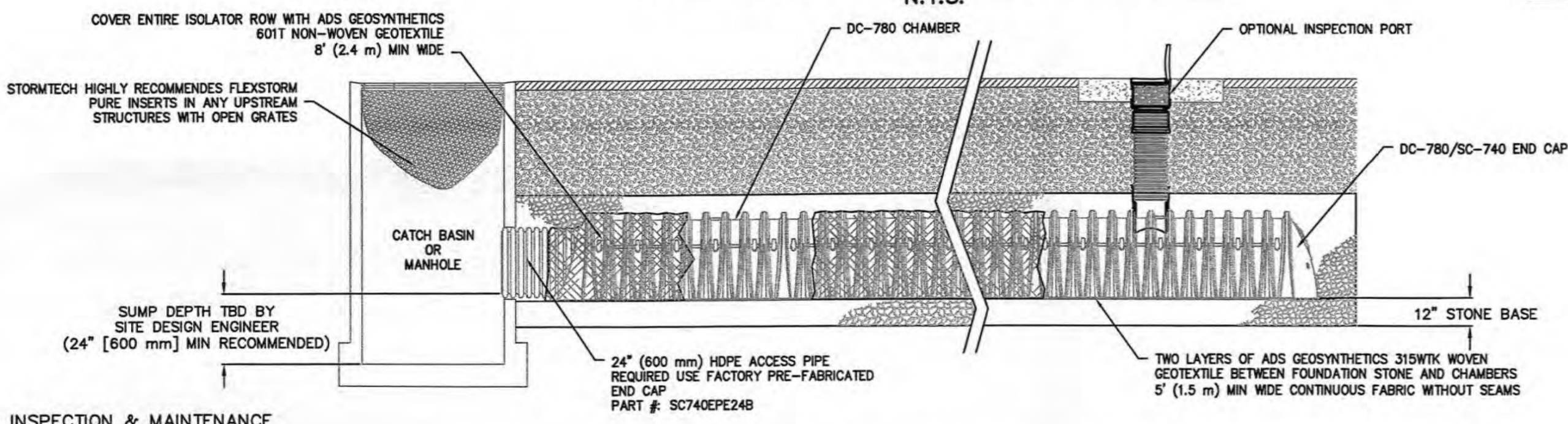
CHECK WALL DETAIL (SOUTHERLY)
N.T.S.



SC-740 CHAMBER CROSS-SECTION
N.T.S.

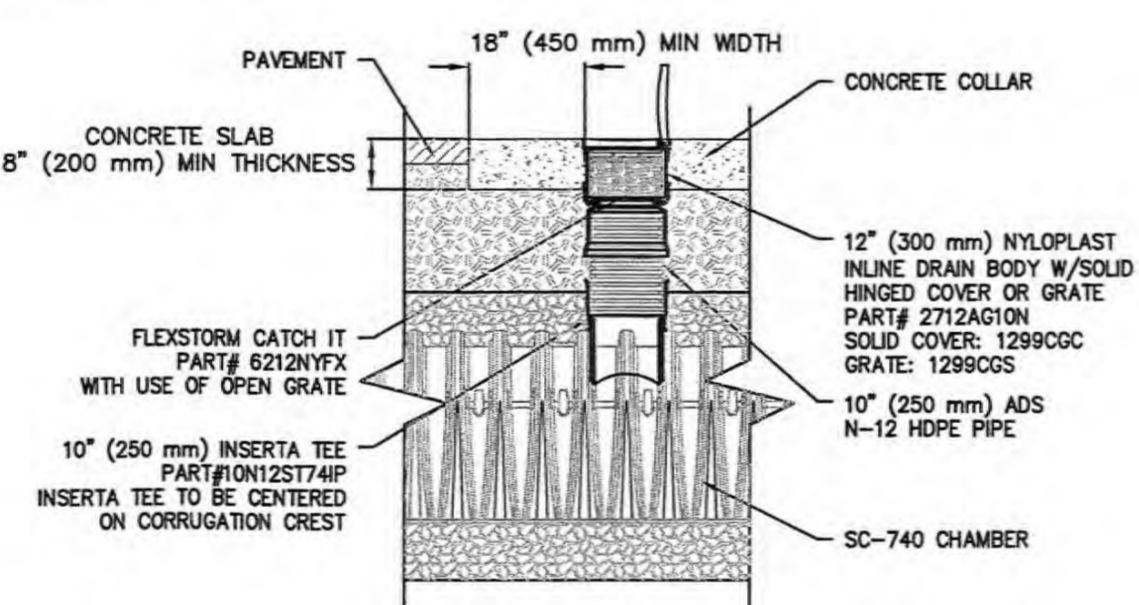
SELECTED ELEVATIONS-SC-740 CHAMBERS

	SOUTHERLY SYSTEM	NORTHERLY SYSTEM
STONE BASE INVERT	230.0	237.0
SC-740 CHAMBER INVERT	231.0	238.0



SC-740 ISOLATOR ROW PROFILE
N.T.S.

- INSPECTION & MAINTENANCE**
- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
- REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A FIXED DILUENT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

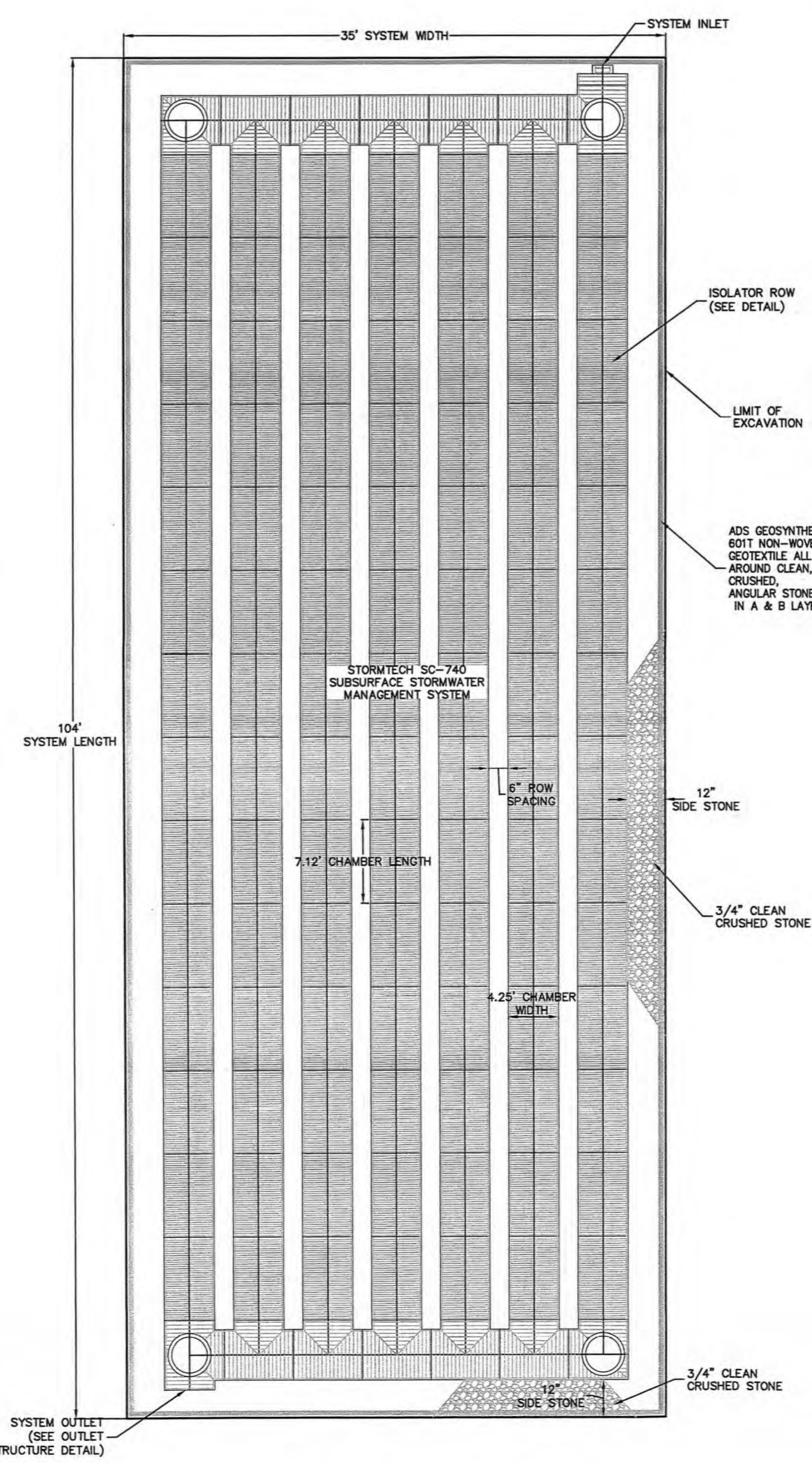


SC-740 INSPECTION PORT DETAIL
N.T.S.

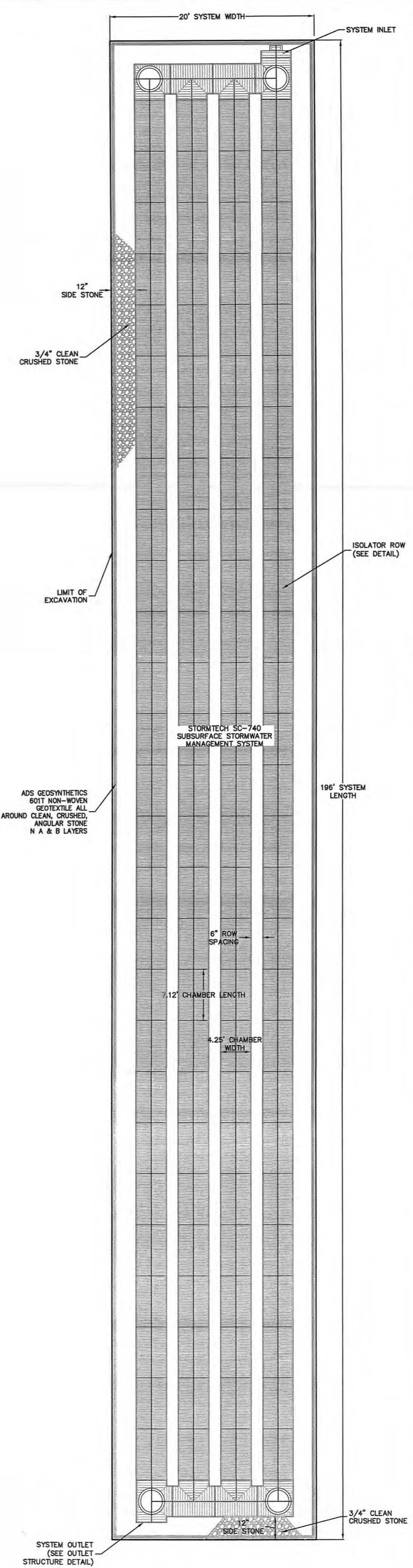
ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 A-1, A-2-4, A-3 OR AASHTO M43 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER CROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE."
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



SC-740 UNDERGROUND DETENTION SYSTEM PLAN VIEW (NORTHERN BED)
N.T.S.



SC-740 UNDERGROUND DETENTION SYSTEM PLAN VIEW (SOUTHERN BED)
N.T.S.

REV.	DATE	DESCRIPTION
18	10/22/15	BUILDING REVISION
17	9/21/15	GENERAL REVISIONS
16	3/30/15	AS PER DRAINAGE REVIEW COMMENTS

BROOKER ENGINEERING, PLLC
PROFESSIONAL ENGINEERS
LAND USE • DEVELOPMENT • STRUCTURAL • HYDROLOGICAL • SURVEYING
85 HAMPDEN VALLEY ROAD, SUITE 200
ROCKLAND COUNTY, NEW YORK
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HILLSIDE COMMERCIAL PARK
TOWN OF ORANGETOWN
ROCKLAND COUNTY, NEW YORK
CONSTRUCTION DETAILS (3 OF 3)

Job Number: 57007
Drawn by: D.R.
Checked by: S.S.
Original Date: 3/9/15
Last Revised Date: 10/22/15
Scale: AS SHOWN
Drawing Number: 14