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**TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS**

PROJECT: BJ'S WHOLESALE CLUB-NEWBURGH
PROJECT NO.: 19-07
PROJECT LOCATION: SECTION 97, BLOCK 2, LOT 44, 46.2 & 45
REVIEW DATE: 13 SEPTEMBER 2019
MEETING DATE: 19 SEPTEMBER 2019
PROJECT REPRESENTATIVE: MASER CONSULTING, P.A.

1. The project will require the filing of a Stormwater Facilities Maintenance Agreement for all lots involved in the project.
2. Stormwater Security and Inspection Fees must be posted prior to signing of the maps.
3. Landscape Security and Inspection Fees must be filled prior to filing of the map.
4. Approval from the NYS Department of Transportation for the access points and traffic signal depicted within the State Highway must be received.
5. City of Newburgh Flow Acceptance Letter has been received and is in the file.
6. Petroleum Bulk Storage Permits must be provided to the Building Department prior to issuance of a Certificate of Occupancy.
7. NYSDEC Stormwater Permit must be submitted prior to issuance of a Building Permit. Copies of the permit should be forwarded to this office and Code Enforcement. Municipal authorization will be processed upon request by the Applicant.
8. Notes should be placed on the map identifying the milling and re-paving of Auto Park Drive as discussed with the Planning Board on 5 September 2019.

Respectfully submitted,

***McGoey, Hauser and Edsall
Consulting Engineers, D.P.C.***

Patrick J. Hines
Principal

PJH/kbw

- PROPERTY DESCRIPTION
 - TAX LOT: 97-2-27.32, 44, 45, & 46.2
 - LOT SIZE: 15.09 ACRES
 - ZONE: IB (INTERCHANGE BUSINESS)
 - PROPERTY LOCATION: NYS ROUTE 17K & AUTO PARK PLACE
- BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON IS TAKEN FROM A PLAN ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY" PREPARED BY MASER CONSULTING, P.A. AND PREPARED FOR GDPBJ, LLC, LAST REVISED 3/19/19
- THE HORIZONTAL DATUM IS RELATIVE TO THE NEW YORK STATE PLANE COORDINATE SYSTEM EAST ZONE AND ADJUSTED TO NAD 1983. THE VERTICAL DATUM IS RELATIVE TO N.A.S.D. 1988.
- NO 100 YEAR FLOOD PLAINS ARE KNOWN TO EXIST ON THE SITE PER THE FLOOD INSURANCE RATE MAPS 36071C0139E & 36071C0143E, DATED AUGUST 3, 2009 PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
- MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH:
 - NEW YORK STATE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", 2002; AS SUPPLEMENTED.
 - CURRENT PREVAILING MUNICIPAL, COUNTY, AND/OR STATE AGENCY SPECIFICATIONS, STANDARDS, CONDITIONS, AND REQUIREMENTS.
 - CURRENT PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.
 - CURRENT MANUFACTURER SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.
- WATER SERVICE TO BE PROVIDED FROM THE EXISTING WATER MAIN IN NYS ROUTE 17K RIGHT-OF-WAY AND THE MAIN IN AUTO PARK PLACE. WATERMAIN SIZE AND LOCATION IS REFERENCED FROM BEST AVAILABLE MAPPING.
- SANITARY SEWER SERVICE SHALL BE PROVIDED BY A GRAVITY CONNECTION TO EXISTING SEWER MAINS IN THE RIGHT-OF-WAY ON AUTO PARK PLACE. MANHOLE LOCATIONS ARE SUBJECT TO MUNICIPAL REVIEW AND APPROVAL ACCORDING TO MUNICIPAL AND ORANGE COUNTY COUNTY HEALTH DEPARTMENT REGULATIONS. PIPE MATERIALS SHALL BE PVC SDR-35, EXCEPT AS NOTED OTHERWISE ON THE PLANS. EXCEPT WHERE SHALLOWER DEPTHS ARE PERMITTED BY THE MUNICIPALITY OR UTILITY AUTHORITY, SEWER LINES INCLUDING FORCE MAINS AND LATERALS, SHALL BE INSTALLED TO PROVIDE A MINIMUM 4 FEET OF COVER FROM THE TOP OF PIPE TO PROPOSED GRADE.
- SANITARY SEWERS SHALL BE SEPARATED FROM WATER MAINS BY AT LEAST 10 FEET HORIZONTALLY. IF SUCH SEPARATION IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SANITARY SEWER AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN, WHERE APPROPRIATE SEPARATION IS NOT POSSIBLE, THE SEWER SHALL BE ENCASED IN CONCRETE, OR CONSTRUCTED OF DUCTILE-IRON PIPE USING MECHANICAL OR SLIP ON JOINTS, FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, ONE FULL LENGTH OF SEWER PIPE SHOULD BE LOCATED SO BOTH JOINTS ARE AS FAR AWAY AS POSSIBLE FROM THE WATER LINE.
- GAS, ELECTRIC, LIGHTING, COMMUNICATIONS, AND ELECTRICAL SERVICE PLANS, IF REQUIRED, SHALL BE PREPARED BY THE RESPECTIVE UTILITY COMPANIES THAT SERVICE THE AREA PRIOR TO SITE CONSTRUCTION AND SHALL BE INSTALLED PER ORDINANCE REQUIREMENTS.
- ELECTRIC, COMMUNICATIONS, AND GAS LINES WILL BE INSTALLED UNDERGROUND. CROSSINGS OF PROPOSED PAVEMENTS WILL BE INSTALLED PRIOR TO THE CONSTRUCTION OF PAVEMENT BASE COURSE.
- UTILITY RELOCATIONS SHOWN HEREON, IF ANY, ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT REPRESENT ALL REQUIRED UTILITY RELOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING AND/OR COORDINATING ALL REQUIRED UTILITY RELOCATIONS IN COOPERATION WITH THE RESPECTIVE UTILITY COMPANY/AUTHORITIES.
- STORM SEWERS SHALL BE CLASS III (OR HIGHER IF NOTED) REINFORCED CONCRETE PIPE (RCP) WITH "O" RING GASKETS, HIGH DENSITY POLYETHYLENE PIPE (HDPE) OR APPROVED EQUAL AS NOTED. PROPER PIPE COVERAGE SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. PIPE LENGTHS SHOWN HEREON ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- REFUSE AND RECYCLABLES PICKUP SHALL BE AS SHOWN ON THE PLAN AND AS DEEMED ACCEPTABLE BY THE TOWN FIRE INSPECTORS OFFICE.
- TRAFFIC SIGNAGE AND STRIPING SHALL CORRESPOND TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THIS IS A SITE DEVELOPMENT PLAN AND UNLESS SPECIFICALLY NOTED ELSEWHERE HEREON, IS NOT A SURVEY.
- BUILDING FOOTPRINT DIMENSIONS SHOWN HEREON ARE APPROXIMATE. FINAL BUILDING FOOTPRINT DIMENSIONS FOR EACH BUILDING SHALL BE FURNISHED ON THE ARCHITECTURAL PLANS AT THE TIME OF APPLICATION FOR A BUILDING PERMIT. ALL STRUCTURES SHALL CONFORM TO THE APPROVED BULK ZONING REQUIREMENTS.
- DO NOT SCALE DRAWINGS AS THEY PERTAIN TO ADJACENT AND SURROUNDING PHYSICAL CONDITIONS, BUILDINGS, STRUCTURES, ETC. THEY ARE SCHEMATIC ONLY, EXCEPT WHERE DIMENSIONS ARE SHOWN THERETO.
- THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL APPROVALS REQUIRED HAVE BEEN OBTAINED. ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED AND THE DRAWINGS HAVE BEEN STAMPED "ISSUED FOR CONSTRUCTION". THIS SHALL INCLUDE APPROVAL OF ALL CATALOG CUTS, SHOP DRAWINGS AND/OR DESIGN CALCULATIONS AS REQUIRED BY THE PROJECT OWNER AND/OR MUNICIPALITY. CONSTRUCTION ON SITE SHALL BE IN COMPLIANCE WITH SITE PLANS APPROVED BY THE TOWN PLANNING BOARD.
- EXISTING UNDERGROUND UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO THEIR SATISFACTION PRIOR TO EXCAVATION. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTIONS, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS, AND SIZES. TEST FIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS. THE CONTRACTOR SHALL NOTIFY THE UNDER SIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD RENDER THE DESIGNS HEREON INAPPROPRIATE OR INEFFECTIVE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY, INCLUDING PROVISION OF ALL APPROPRIATE SAFETY DEVICES AND TRAINING REQUIRED.
- PROJECT HAS INDICATED THE INTENT TO PROVIDED ADEQUATE FIRE FLOW BY THE PROPOSED INSTALLATION OF SPRINKLER SYSTEMS MEETING NFPA REQUIREMENTS, AND IS, THEREFORE, EXEMPT FROM THE NEEDED FIRE FLOW GUIDELINES OF THE INSURANCE SERVICES' OFFICE (ISO). THE PROPOSED SPRINKLER SYSTEM DESIGN HAS NOT BEEN EVALUATED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH FOR COMPLIANCE WITH THE NFPA REQUIREMENTS.
- INFORMATION SHOWN HEREON IS INCORPORATED WITH THE CONTENTS OF THE FOLLOWING REPORTS:
 - STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY MASER CONSULTING DATED, JUNE 2019
 - TRAFFIC IMPACT STUDY PREPARED BY MASER CONSULTING DATED 06/13/2019
 - GEOTECHNICAL DATA REPORT (STORMWATER INFILTRATION TESTING) FOR NEWBURGH BJS DATED, 07/19 PREPARED BY MASER CONSULTING, P.A.
 - GEOTECHNICAL INVESTIGATION REPORT FOR BJS WHOLESALE CLUB NEWBURGH NY DATED, 7/6/2019 PREPARED BY KEVIN L. PATTON, P.E.

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REV.	DATE	DESCRIPTION
1	05/14/19	ISSUED FOR CONSTRUCTION
2	07/19/19	ISSUED FOR CONSTRUCTION
3	07/19/19	ISSUED FOR CONSTRUCTION

ANDREW B. FETHERSTON
 NEW YORK LICENSED PROFESSIONAL
 ENGINEER - LICENSE NUMBER: 073555-1

BJ'S WHOLESALE CLUB
 FOR
GDPBJ, LLC

SECTION 97
 BLOCK 2
 LOTS 27.32, 44, 45 & 46.2
 TOWN OF NEWBURGH
 ORANGE COUNTY
 NEW YORK STATE

NEW WINDSOR OFFICE
 555 Hudson Valley Avenue
 Suite 101
 New Windsor, NY 12553
 Phone: 845.564.4495
 Fax: 845.567.0025

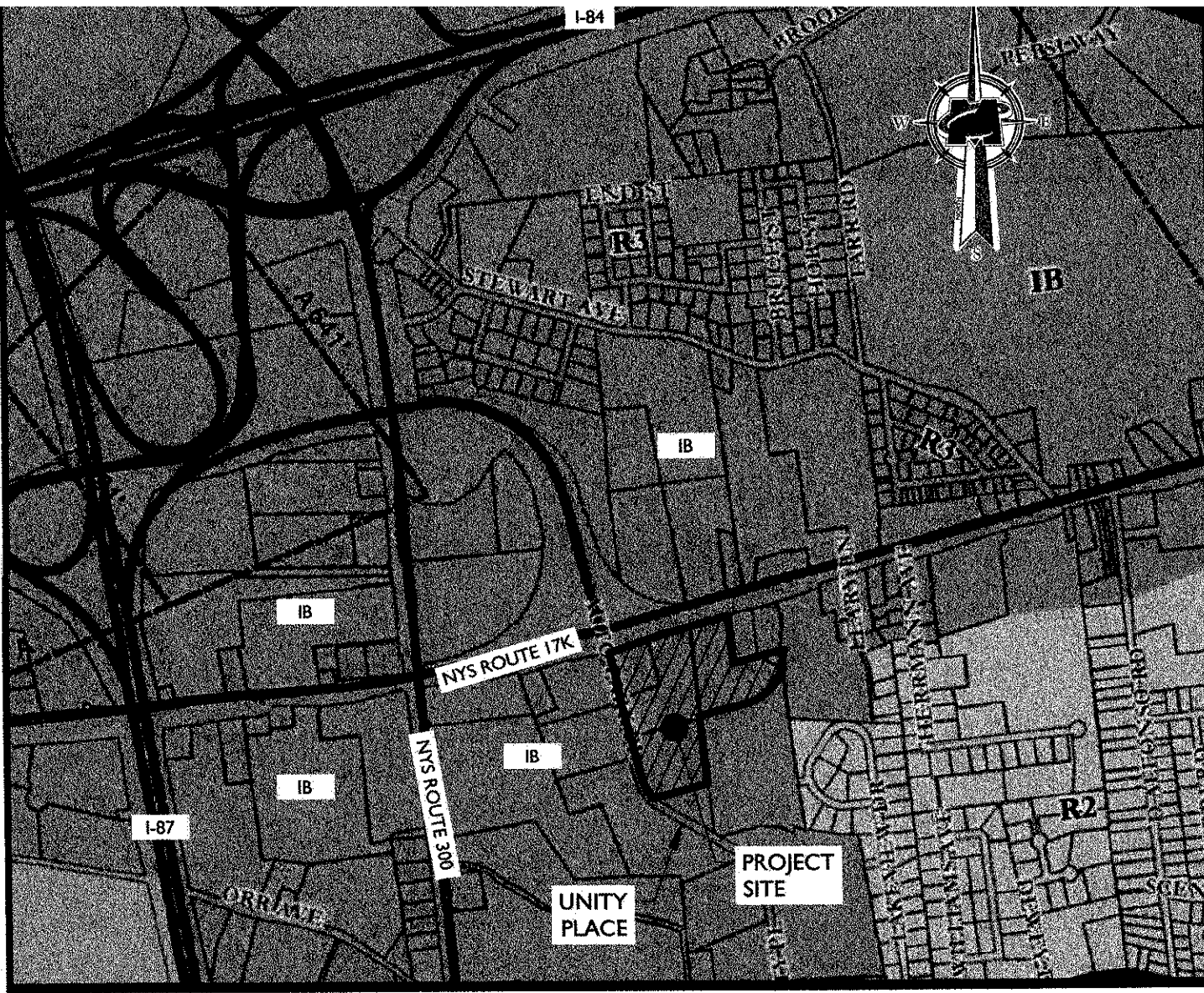
SCALE	DATE	DRAWN BY	CHECKED BY
AS SHOWN	05/14/19	CDR	ABF

PROJECT NUMBER	DRAWING NAME
18000471A	C-COVER

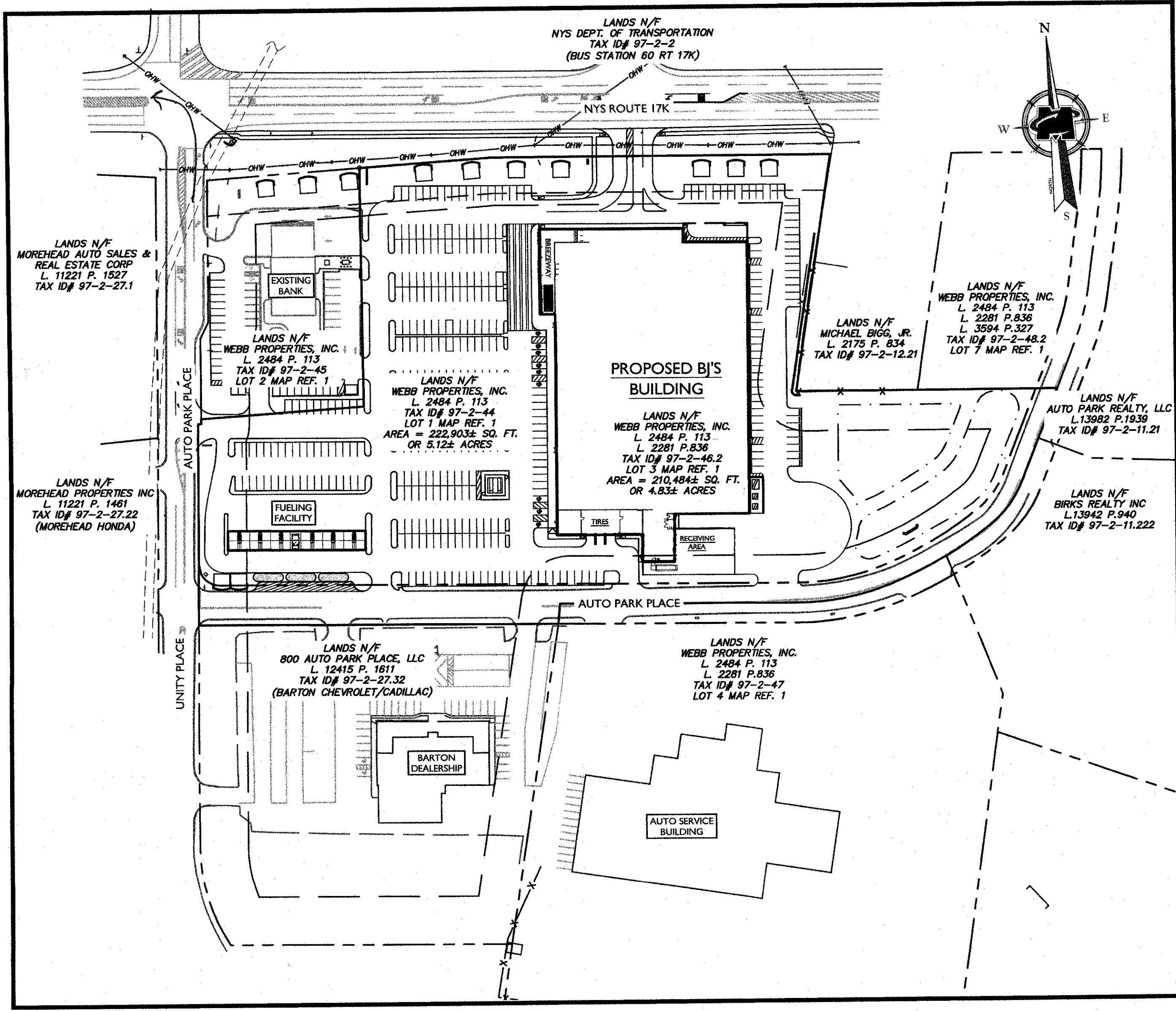
SHEET NUMBER	OF	TOTAL SHEETS
01	of	15

**SITE PLANS
 FOR
 GDPBJ, LLC**

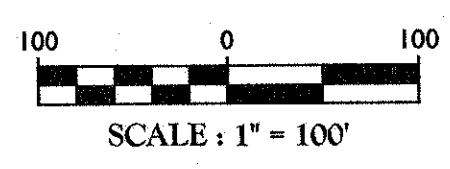
BJ'S WHOLESALE CLUB - NEWBURGH
SBL: 97-2-27.32, 44, 45, & 46.2
TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK



TOWN OF NEWBURGH ZONING MAP
 SCALE: 1" = 1,000'



KEY MAP



OWNERS:
 WEBB PROPERTIES, INC.
 800 AUTO PARK PLACE
 NEWBURGH, NY 12550

800 AUTO PARK PLACE, LLC
 800 AUTO PARK PLACE
 NEWBURGH, NY 12550

APPLICANT:
 GDPBJ, LLC
 P.O. BOX 55
 145 OTTERKILL ROAD
 MOUNTAINVILLE, NY 10953

INDEX OF SHEETS			
SHT. No.	OCDOH SHT. No.	DESCRIPTION	LATEST REVISION
1	1	COVER SHEET	8/22/2019
2	-	EXISTING CONDITIONS & DEMOLITION PLAN	8/22/2019
3	-	DIMENSION PLAN	8/22/2019
4	-	GRADING & DRAINAGE PLAN	8/22/2019
5	2	UTILITY PLAN	8/22/2019
6	3	UTILITY PROFILES	8/22/2019
7	-	SOIL EROSION AND SEDIMENT CONTROL PLAN	8/22/2019
8	-	SOIL EROSION AND SEDIMENT CONTROL DETAILS	8/22/2019
9	-	LANDSCAPE PLAN	8/22/2019
10	-	LIGHTING PLAN	8/22/2019
11-15	4	CONSTRUCTION DETAILS	8/22/2019

WATER MAIN INSTALLATION TO SERVE
 PROPOSED BJ'S WHOLESALE CLUB
 TOWN OF NEWBURGH
 OCDOH (SHEET 1 OF 4)

MASER CONSULTING, INC. Logo and contact information including address, phone, and website.

Drawing legend table with symbols for property boundaries, easements, and various utility lines.

811 logo and text: 'Call before you dig. FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL11.COM'

Revision table with columns for DATE, DESCRIPTION, DRAWN BY, and CHECKED BY.

Second revision table with columns for DATE, DESCRIPTION, DRAWN BY, and CHECKED BY.



ANDREW B. FETHERSTON
NEW YORK LICENSED PROFESSIONAL ENGINEER - LICENSE NUMBER: 07555-1

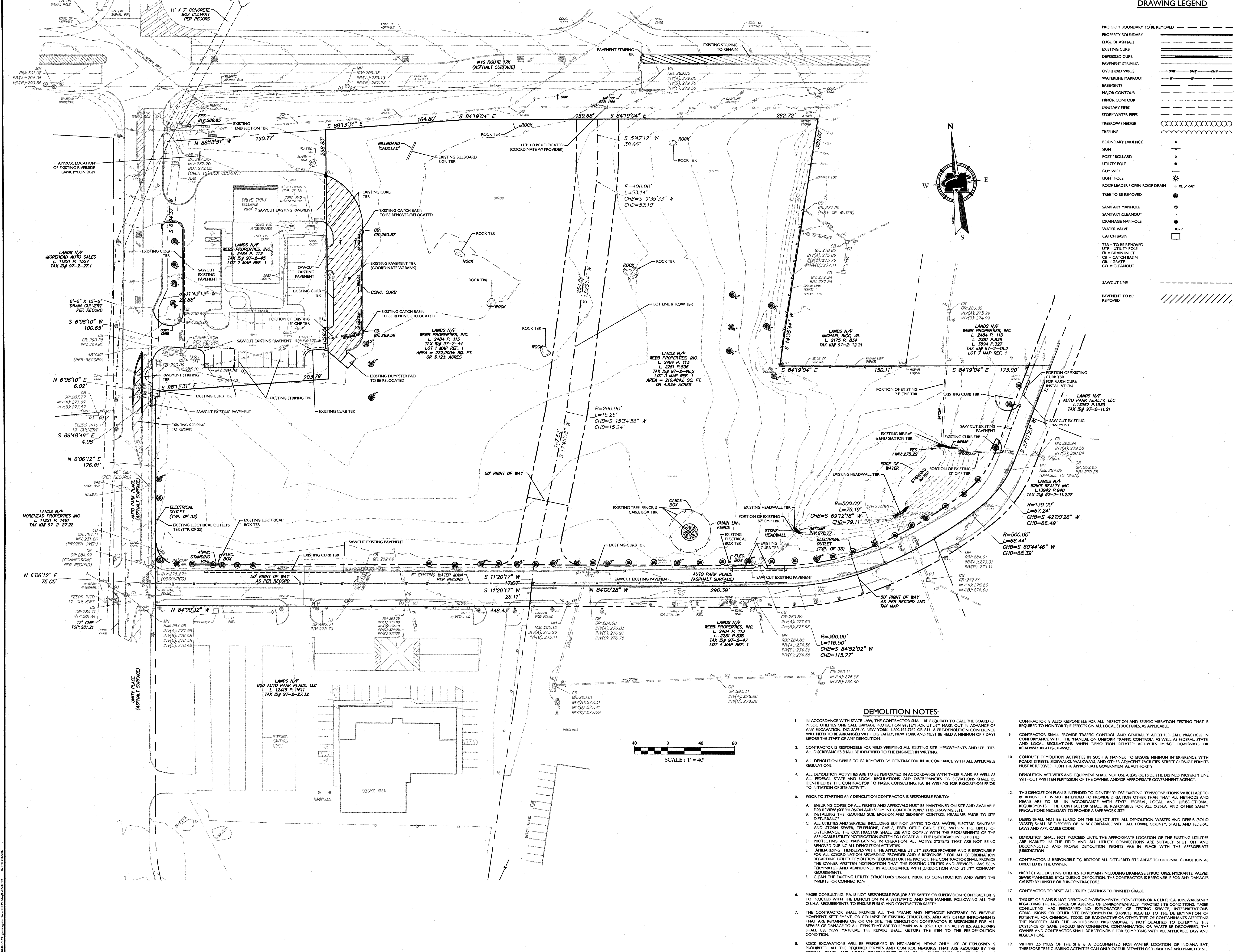
Bj's WHOLESALE CLUB
FOR
GDPBJ, LLC

SECTION 97
BLOCK 2
LOTS 27, 32, 44, 45 & 46.2
TOWN OF NEWBURGH
ORANGE COUNTY
NEW YORK STATE

NEW WINDSOR OFFICE
555 Hudson Valley Avenue
Suite 10
New Windsor, NY 12553
Phone 845.564.4495
Fax 845.567.0255

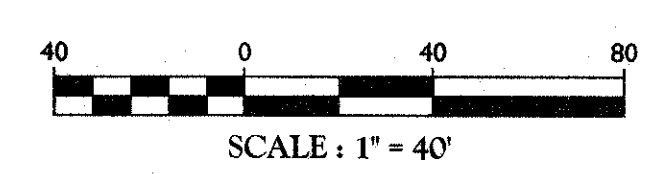
Scale and drawing information table with columns for SCALE, DATE, DRAWN BY, CHECKED BY, PROJECT NUMBER, and DRAWING NAME.

SHEET TITLE: SITE DEMOLITION PLAN



DEMOLITION NOTES:

- 1. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM FOR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION, DIG SAFELY, NEW YORK, L 800-962-7962 OR 811. A PRE-DEMOLITION CONFERENCE WILL NEED TO BE ARRANGED WITH DIG SAFELY, NEW YORK AND MUST BE HELD A MINIMUM OF 7 DAYS BEFORE THE START OF ANY DEMOLITION.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
3. ALL DEMOLITION DEBRIS TO BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
4. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN ACCORDANCE WITH THESE PLANS, AS WELL AS ALL FEDERAL, STATE AND LOCAL REGULATIONS. ANY DISCREPANCIES OR DEVIATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR TO MASER CONSULTING, P.A. IN WRITING FOR RESOLUTION PRIOR TO INITIATION OF SITE ACTIVITY.
5. PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR:
A. ENSURING COPIES OF ALL PERMITS AND APPROVALS MUST BE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW BY PERSON AND AGENCY CONTROL PLAN (THE DRAWING SET).
B. INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
C. ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC, CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE, THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.
D. PROTECTING AND MAINTAINING IN OPERATION ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.
E. FAMILIARIZING THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING PROTECTION AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.
F. CLEAN THE EXISTING UTILITY STRUCTURES ON-SITE PRIOR TO CONSTRUCTION AND VERIFY THE INVERTS FOR CONNECTION.
6. MASER CONSULTING, P.A. IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE OSHA REQUIREMENTS TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
7. THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES. ALL REPAIRS SHALL USE NEW MATERIAL. THE REPAIRS SHALL RESTORE THE ITEM TO THE PRE-DEMOLITION CONDITION.
8. ROCK EXCAVATIONS WILL BE PERFORMED BY MECHANICAL MEANS ONLY. USE OF EXPLOSIVES IS PROHIBITED. ALL THE REQUIRED PERMITS AND CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING THE DEMOLITION.
9. CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES AS APPLICABLE.
10. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL", AS WELL AS FEDERAL, STATE AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS-OF-WAY.
11. CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY.
12. DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROPERTY LINE WITHOUT WRITTEN PERMISSION OF THE OWNER AND/OR APPROPRIATE GOVERNMENT AGENCY.
13. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO DEFINE DIRECTION OTHER THAN THAT ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.
14. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOIL WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE AND FEDERAL LAWS AND APPLICABLE CODES.
15. DEMOLITION SHALL NOT PROCEED UNTIL THE APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE MARKED IN THE FIELD AND ALL UTILITY CONNECTIONS ARE SUITABLY SHUT OFF AND DISCONNECTED AND PROPER DEMOLITION PERMITS ARE IN PLACE WITH THE APPROPRIATE JURISDICTION.
16. CONTRACTOR IS RESPONSIBLE TO RESTORE ALL DISTURBED SITE AREAS TO ORIGINAL CONDITION AS DIRECTED BY THE OWNER.
17. CONTRACTOR TO RESET ALL UTILITY CASTINGS TO FINISHED GRADE.
18. THIS SET OF PLANS IS NOT DEPICTING ENVIRONMENTAL CONDITIONS OR A CERTIFICATION WARRANTY REGARDING THE PRESENCE OR ABSENCE OF ENVIRONMENTALLY IMPACTED SITE CONDITIONS. MASER CONSULTING HAS PERFORMED NO EXPLORATORY OR TESTING SERVICE. INTERPRETATIONS, CONCLUSIONS OR OTHER SITE ENVIRONMENTAL SERVICES RELATED TO THE DETERMINATION OF POTENTIAL FOR CHEMICAL TOXIC OR RADIOACTIVE OR OTHER TYPE OF CONTAMINANTS AFFECTING THE PROPERTY AND THE UNDERGROUND PROFESSIONAL IS NOT QUALIFIED TO DETERMINE THE EXISTENCE OF SAME. SHOULD ENVIRONMENTAL CONTAMINATION OR WASTE BE DISCOVERED, THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LAW AND REGULATIONS.
19. WITHIN 25 FEET OF THE SITE IS A DOCUMENTED NON-WINTER LOCATION OF INDIANA BAT. THEREFORE THE CLEARING ACTIVITIES CAN ONLY OCCUR BETWEEN OCTOBER 31ST AND MARCH 31ST.



SCALE 1" = 40'

GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN SEVEN (7) DAYS FOR DISTURBANCES LESS THAN FIVE (5) ACRES AND FIVE (7) DAYS FOR DISTURBANCES GREATER THAN FIVE (5) ACRES, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- PERMANENT VEGETATION TO BE SEED OR SOILED ON ALL EXPOSED AREAS WITHIN FIVE (5) DAYS AFTER FINAL GRADING. MULCHING IS REQUIRED ON ALL SEEDING WHEN HYDROSEEDING. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH THE SEED.
- ALL WORK TO BE DONE IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
- A SUBBASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZED STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUBBASE SHALL BE INSTALLED WITHIN FIVE (5) DAYS OF THE PRELIMINARY GRADING.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (I.E. SLOPES GREATER THAN 3:1).
- THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD, AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.
- IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4.0 OR LESS OR CONTAINING IRON, SILICA OR SULFUR IN A COMBINATION OF TWENTY (20) PERCENTS OF SOIL HAVING A PH OF 5.0 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5.0 OR MORE.
- AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT APPROPRIATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND VEGETATIVE COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- CONDUIT OUTLET PROTECTION MUST BE REVIEWED AND SUPPLEMENTED AT ALL OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- UNFILTERED DEWATERING IS NOT PERMITTED. TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH STATE STANDARDS.
- SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
- ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAY WILL BE REMOVED IMMEDIATELY.
- THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION AND SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
- STOCKPILE AND STAGING LOCATIONS DETERMINED IN THE FIELD, SHALL BE PLACED WITHIN THE LIMITS OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN.
- CONCRETE WASHOUT, DUMPSTER, & STAGING AREA LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED AT THE PRE-CONSTRUCTION MEETING. THEY SHALL BE PLACED IN THE PROXIMITY OF THE CONSTRUCTION ENTRANCE AND STAGING AREAS AND SHALL BE USED PRIOR TO EXISTING PROJECT SITE. THE LOCATION SHALL BE IN A PRACTICAL, CLEARLY DELINEATED, AREA AND BE MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- ALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED BY THE PROPERTY OWNER, AND SHALL BECOME THEIR RESPONSIBILITY.
- PAVEMENT AREAS ARE TO BE KEPT CLEAN AT ALL TIMES.
- DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY TO PREVENT EROSION OR CONTROL SEDIMENT BEYOND THOSE MEASURES SHOWN ON THE APPROVED PLAN SHALL BE INSTALLED OR EMPLOYED AT THE DIRECTION OF THE MUNICIPAL ENGINEER.
- ALL TEMPORARY STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED, WHEN ALL CONSTRUCTION ACTIVITY DESCRIBED IN THE SWPPP HAS BEEN COMPLETED, ALL AREAS OF DISTURBANCE HAVE ACHIEVED FINAL STABILIZATION AND ALL POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE SWPPP AND ARE OPERATIONAL.

PERMANENT STABILIZATION - MEANS THAT ALL SOIL DISTURBANCE ACTIVITIES HAVE CEASED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DEPTH OF EIGHTY (80) PERCENT OVER THE ENTIRE PREVIOUS SURFACE HAS BEEN ESTABLISHED, OR OTHER EQUIVALENT STABILIZATION MEASURES, SUCH AS PERMANENT LANDSCAPE MULCHES, ROCK RIPRAP OR WASHED/DROPPED STONE HAVE BEEN APPLIED ON ALL DISTURBED AREAS THAT ARE NOT COVERED BY PERMANENT STRUCTURES, CONCRETE OR PAVEMENT.

MAINTENANCE DURING CONSTRUCTION
 INSPECTION AND MAINTENANCE SHALL BE PERFORMED IN CONFORMANCE WITH G9-0.15-002. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RAINFALL-PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED AND INSTALLED FOR THE PROJECT. THE SEDIMENT TRAPS WILL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT REACHES 33% OF ITS CAPACITY. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES APPROPRIATELY DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. ALL SEEDING AREAS WILL BE FERTILIZED, RE-SEEDING AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE LANDSCAPE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

NOTE: DURING THE CONSTRUCTION OF A PHASE, EACH SUBSEQUENT PHASE WILL HAVE BEEN CAPPED AND STABILIZED WITH DENSE GRASS COVER.

MAINTENANCE AGREEMENT NOTE
 THE OWNER/APPLICANT SHALL ENTER INTO AN ENFORCEABLE MAINTENANCE AGREEMENT WITH THE MUNICIPALITY RELATED TO MAINTENANCE OF STORMWATER FACILITIES. THE OWNER/APPLICANT IS RESPONSIBLE TO PERFORM ALL REQUIRED MAINTENANCE BOTH DURING CONSTRUCTION AND LONG-TERM. THE NATURE OF THE AGREEMENT IS TO ALLOW THE VILLAGE TO PERFORM MAINTENANCE AT THEIR OPTION SHOULD THE OWNER/APPLICANT FAIL TO ADEQUATELY MAINTAIN THE SYSTEM AS DETERMINED BY THE MUNICIPAL ENGINEER. MAINTENANCE OF THE STORMWATER SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED SWPPP AND DETAIL SHEETS.

NOTE:

- FOR CONSTRUCTION SEQUENCE AND CONSTRUCTION PHASING REFER TO THE STORMWATER POLLUTION PREVENTION PLAN PREPARED BY MASER CONSULTANTS.
- THE CONTRACTOR SHALL HAVE A PRE-CONSTRUCTION MEETING WITH THE MUNICIPALITY PRIOR TO EACH PHASE OF CONSTRUCTION (AS REQUESTED BY THE MUNICIPALITY).
- THIS PROJECT WILL REQUIRE A WAIVER FOR SOIL DISTURBANCE GREATER THAN 5 ACRES.

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REV	DATE	DESCRIPTION
1	05/11/19	ISSUED FOR PERMITTING AND SWPPP REVIEW
2	07/11/19	REVISED PER PLANNING BOARD COMMENTS & LOCAL JURISDICTION
3	08/22/19	REVISED PER TOWN, COUNTY & INTERNAL CONCEPT COMMENTS

ANDREW B. FETHERSTON
 NEW YORK LICENSED PROFESSIONAL ENGINEER - LICENSE NUMBER: 07555-1

BJ'S WHOLESALE CLUB
 FOR
GDPBJ, LLC

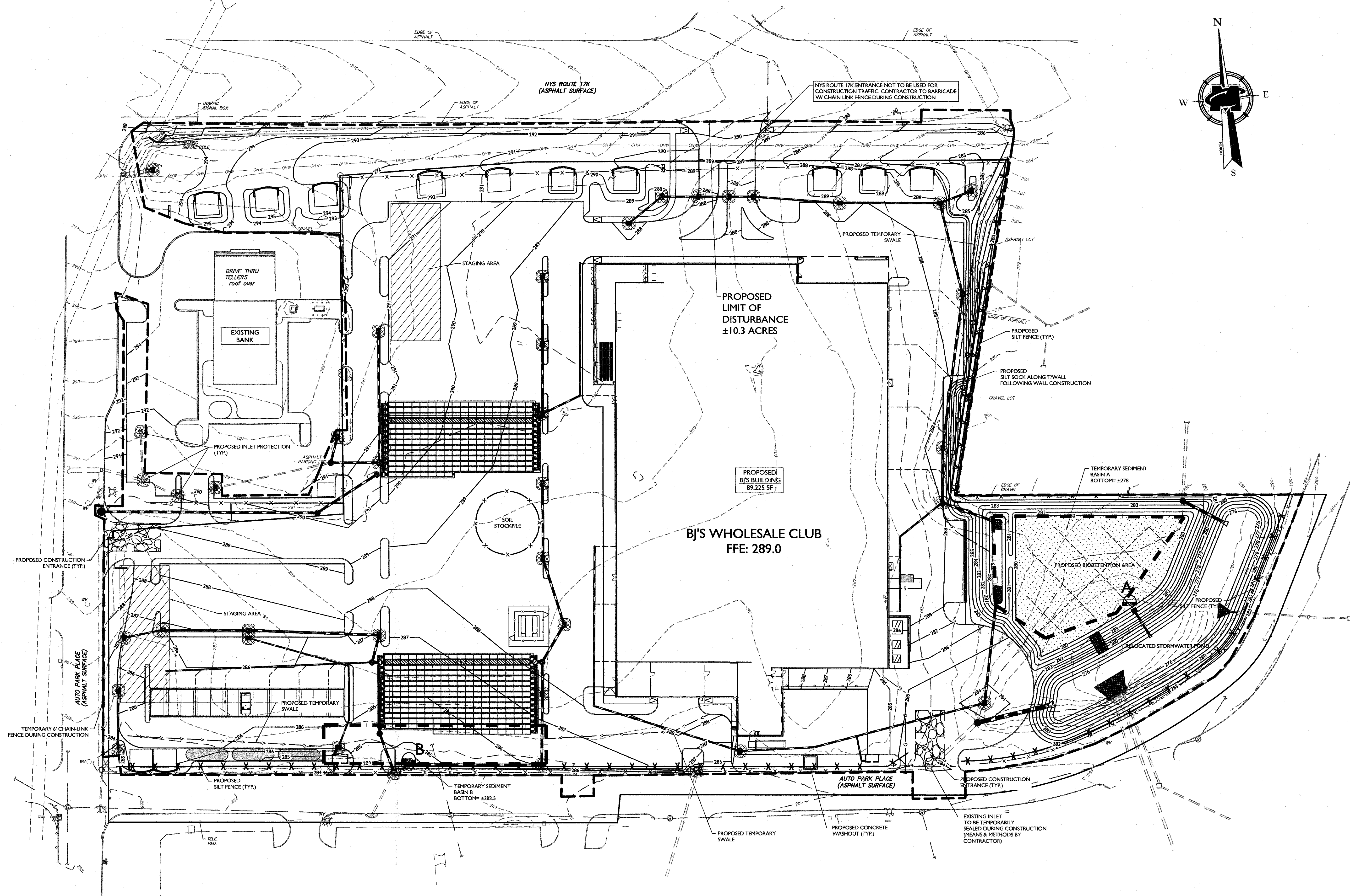
SECTION 97
 BLOCK 2
 LOTS 27.32, 44, 45 & 46.2

TOWN OF NEWBURGH
 ORANGE COUNTY
 NEW YORK STATE

NEW WINDSOR OFFICE
 555 Hudson Valley Avenue
 Suite 101
 New Windsor, NY 12553
 Phone: 945.564.4495
 Fax: 945.567.1025

SCALE	DATE	DRAWN BY	CHECKED BY
AS SHOWN	05/29/19	CDK	ABF

SOIL EROSION & SEDIMENT CONTROL PLAN

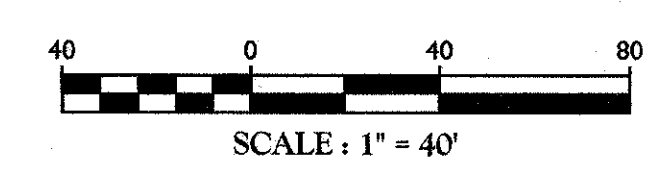


STONE OUTLET SEDIMENT TRAP TABLE

SEDIMENT TRAP	DRAINAGE AREA	SURFACE AREA	DEPTH (FT.)	VOLUME REQ'D (C.F.)	VOLUME PROVIDED (C.F.)
A	±6.3 ACRES	11,900 SQ.FT.	2.0 FT.	22,680 C.F.	23,800 C.F.
B	±4.0 ACRES	6,000 SQ.FT.	2.5 FT.	14,400 C.F.	15,000 C.F.

LEGEND FOR EROSION CONTROL DURING CONSTRUCTION

- LIMIT OF DISTURBANCE LINE
- X SILT FENCE
- SILT SOCK
- x- TEMPORARY CONSTRUCTION FENCE
- ◻ STORM INLET SEDIMENT TRAP
- ◻ STABILIZED CONSTRUCTION ENTRANCE
- ◻ STONE OUTLET SEDIMENT TRAP
- TEMPORARY SWALE
- TEMPORARY SEDIMENT BASIN
- SP MATERIAL STOCKPILE



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REV	DATE	DESCRIPTION

REV	DATE	DESCRIPTION



JUSTIN E. DATES
 LANDSCAPE ARCHITECT - LICENSE NUMBER: 001964

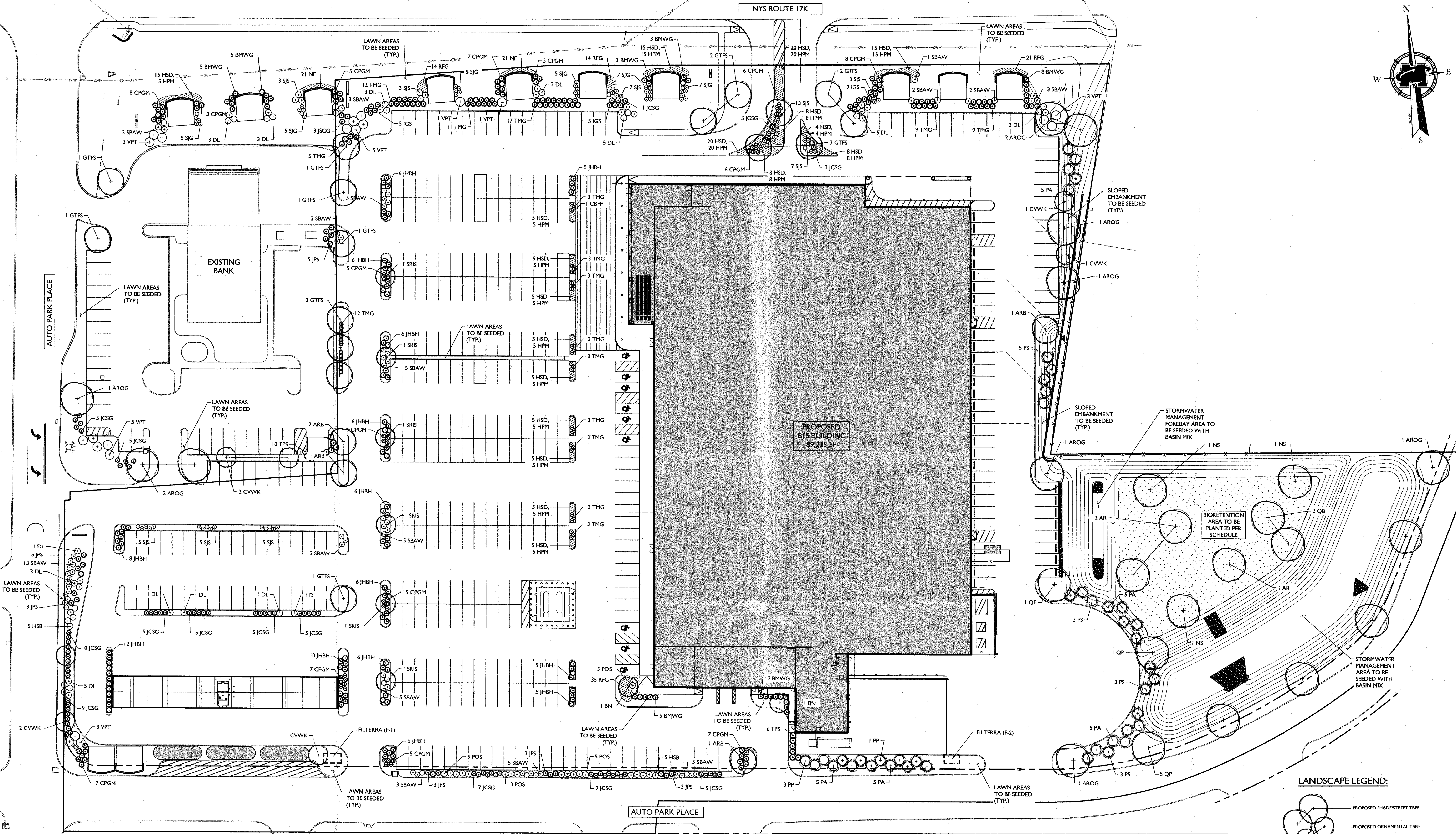
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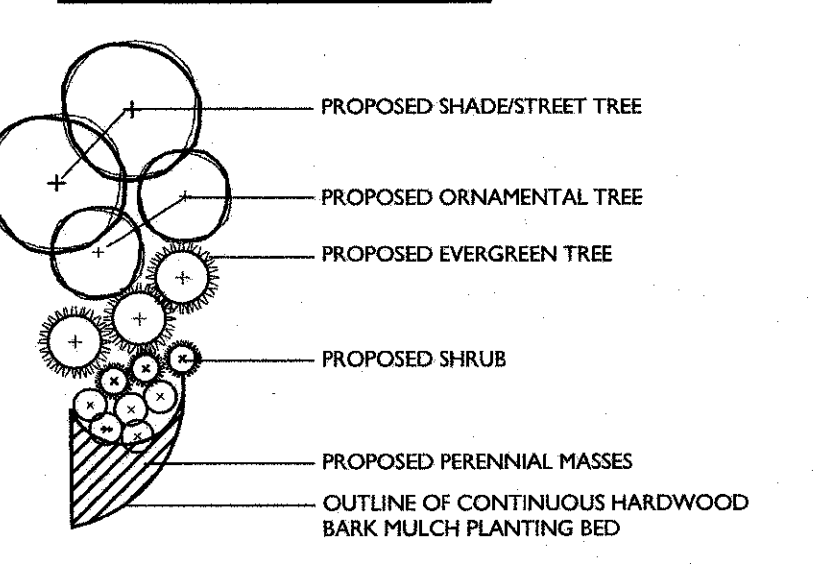
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 PROJECT NAME: BIOTERRACE PLANTING PLAN DRAWING NAME: BIOTERRACE PLANTING PLAN
 SHEET TITLE: LANDSCAPE PLAN
 SHEET NUMBER: 09 of 15



SITE PLANTING SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CALIPER	SPREAD	ROOT	REMARKS
SHADE/STREET TREES								
AROG	9	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2'-2-1/2"	1/4"	8' x 8'	B&B	STRAIGHT LEADER/TYP. BRANCHING
ARB	4	ACER RUBRUM 'BRANDYWINE'	BRANDYWINE RED MAPLE	2'-2-1/2"	1/4"	8' x 8'	B&B	STRAIGHT LEADER/TYP. BRANCHING
GTFS	16	GLEDISIA TRIACANTHOS F. 'INERMIS SKYLINE'	SKYLINE HONEY LOCUST	2'-2-1/2"	1/4"	8' x 8'	B&B	STRAIGHT LEADER/TYP. BRANCHING
QP	7	QUERCUS PALUSTRIS	PIN OAK	2'-2-1/2"	1/4"	8' x 8'	B&B	STRAIGHT LEADER/TYP. BRANCHING
EVERGREEN TREES								
PA	23	PICEA ABIES	NORWAY SPRUCE	6'-7'	1/4"	8' x 8'	B&B	STRAIGHT LEADER/TYP. SPECIES HABIT
PP	4	PICEA PUNGENS	COLORADO SPRUCE	6'-7'	1/4"	8' x 8'	B&B	STRAIGHT LEADER/TYP. SPECIES HABIT
PS	14	PINUS STROBUS	EASTERN WHITE PINE	8'-10'	1/4"	8' x 8'	B&B	STRAIGHT LEADER/TYP. SPECIES HABIT
TPS	16	THUJA PLICATA 'STREPLCHASE'	STREPLCHASE WESTERN ARBORVITAE	6'-7'	1/4"	8' x 8'	B&B	STRAIGHT LEADER/TYP. SPECIES HABIT
ORNAMENTAL TREES								
BN	2	BETULA NIGRA	RIVER BIRCH	8'-10'	1/4"	8' x 8'	CONT.	MULTI-STEM
CVWK	7	CRATAEGUS VIRIDIS 'WINTER KING'	WINTER KING HAWTHORN	1-3/4" - 2"	1/4"	8' x 8'	B&B	STRAIGHT LEADER/TYP. SPECIES HABIT
SS	6	SYRINGIA MENTUCULATA 'HOYT SUN'	JAPANESE TREE LILAC	1-3/4" - 2"	1/4"	8' x 8'	B&B	STRAIGHT LEADER/TYP. SPECIES HABIT
SHRUBS								
BMWG	28	BURUL MICHORITHA 'WINTER GEM'	WINTER GEM BOXWOOD	24"-30"	1/4"	CONT.	TYPICAL SPECIES HABIT	
CPGM	87	CHAMAECYPARUS PISIFERA 'GOLDEN POP'	GOLDEN POP THREADEAF CYPRESS	24"-30"	1/4"	CONT.	TYPICAL SPECIES HABIT	
DL	38	DIERYLLA LONICERA	DWARF BUSH HONEYSUCKLE	24"-30"	1/4"	CONT.	TYPICAL SPECIES HABIT	
HSB	5	HYDRANGEA SERRATA 'BLUE BIRD'	BLUE BIRD HYDRANGEA	24"-30"	1/4"	CONT.	TYPICAL SPECIES HABIT	
SIS	17	ILEX GLABRA 'SHAMROCK'	SHAMROCK YEW	24"-30"	1/4"	CONT.	TYPICAL SPECIES HABIT	
JCSG	82	JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	24"-30"	1/4"	CONT.	TYPICAL SPECIES HABIT	
JBH	92	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	BAR HARBOR JUNIPER	18"-24"	1/4"	CONT.	TYPICAL SPECIES HABIT	
JPS	22	JUNIPERUS X FRITZEBANA 'SARIBOOK GOLD'	SARIBOOK GOLD JUNIPER	24"-30"	1/4"	CONT.	TYPICAL SPECIES HABIT	
PSW	21	PHYSCARPUS OPALIFOLIA 'SEWARD'	SUMMON WINE NINEBARK	18"-24"	1/4"	CONT.	TYPICAL SPECIES HABIT	
SBW	46	SPIRAEA X BURBALDA 'ANTHONY WATER'	ANTHONY WATER SPIREA	18"-24"	1/4"	CONT.	TYPICAL SPECIES HABIT	
SG	36	SPIRAEA JAPONICA 'GOLD MOUND'	GOLD MOUND SPIREA	18"-24"	1/4"	CONT.	TYPICAL SPECIES HABIT	
SS	51	SPIRAEA JAPONICA 'SHIROBANA'	SHIROBANA SPIREA	18"-24"	1/4"	CONT.	TYPICAL SPECIES HABIT	
TMG	93	TAXUS X MEDIA 'GREENWAVE'	GREENWAVE YEW	18"-24"	1/4"	CONT.	TYPICAL SPECIES HABIT	
VPT	21	VIBURNUM PLICATUM 'TOMENTOSUM SHASTA'	SHASTA DOUBLEDLEAF VIBURNUM	30"-36"	1/4"	CONT.	TYPICAL SPECIES HABIT	
PERENNIALS								
HPM	158	HEMEROCALLIS 'PARDON ME'	PARDON ME DAYLILY	1 GAL. CONT.	CLUMPS @ 24" O.C.			
HSD	158	HEMEROCALLIS 'STELLA DE ORO'	STELLA DE ORO DAYLILY	1 GAL. CONT.	CLUMPS @ 24" O.C.			
RFG	70	RUDBECKIA FULGIDA 'GOLDSTRIP'	BLACK-EYED SUSAN	1 GAL. CONT.	CLUMPS @ 24" O.C.			
NF	42	NEPETA FAASSENII	CATMINT	1 GAL. CONT.	CLUMPS @ 24" O.C.			

NOTE:
 1. FILTERRA UNITS TO BE PLANTED WITH RED OSIER DOGWOOD (CORNUS SERICEA).

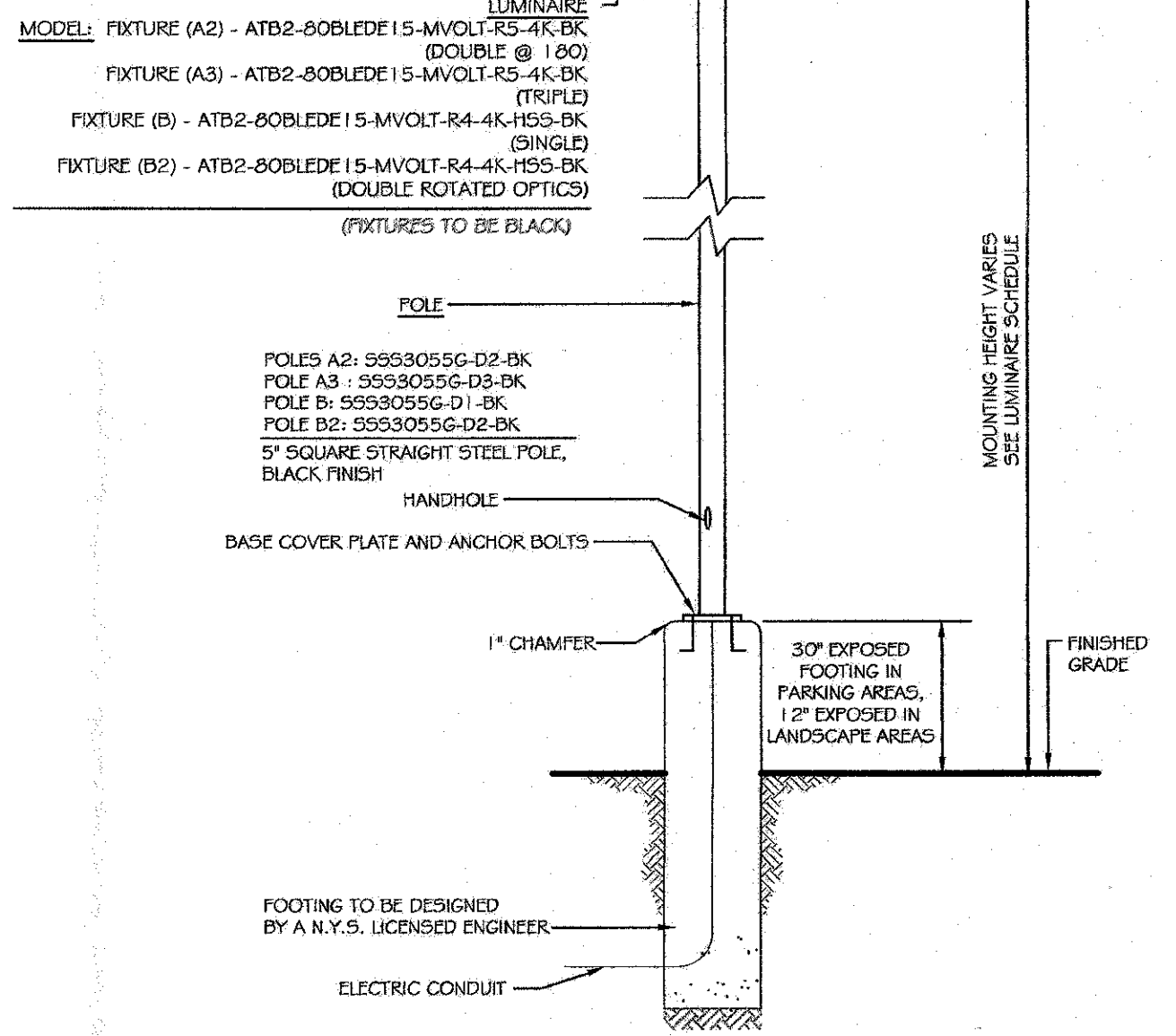
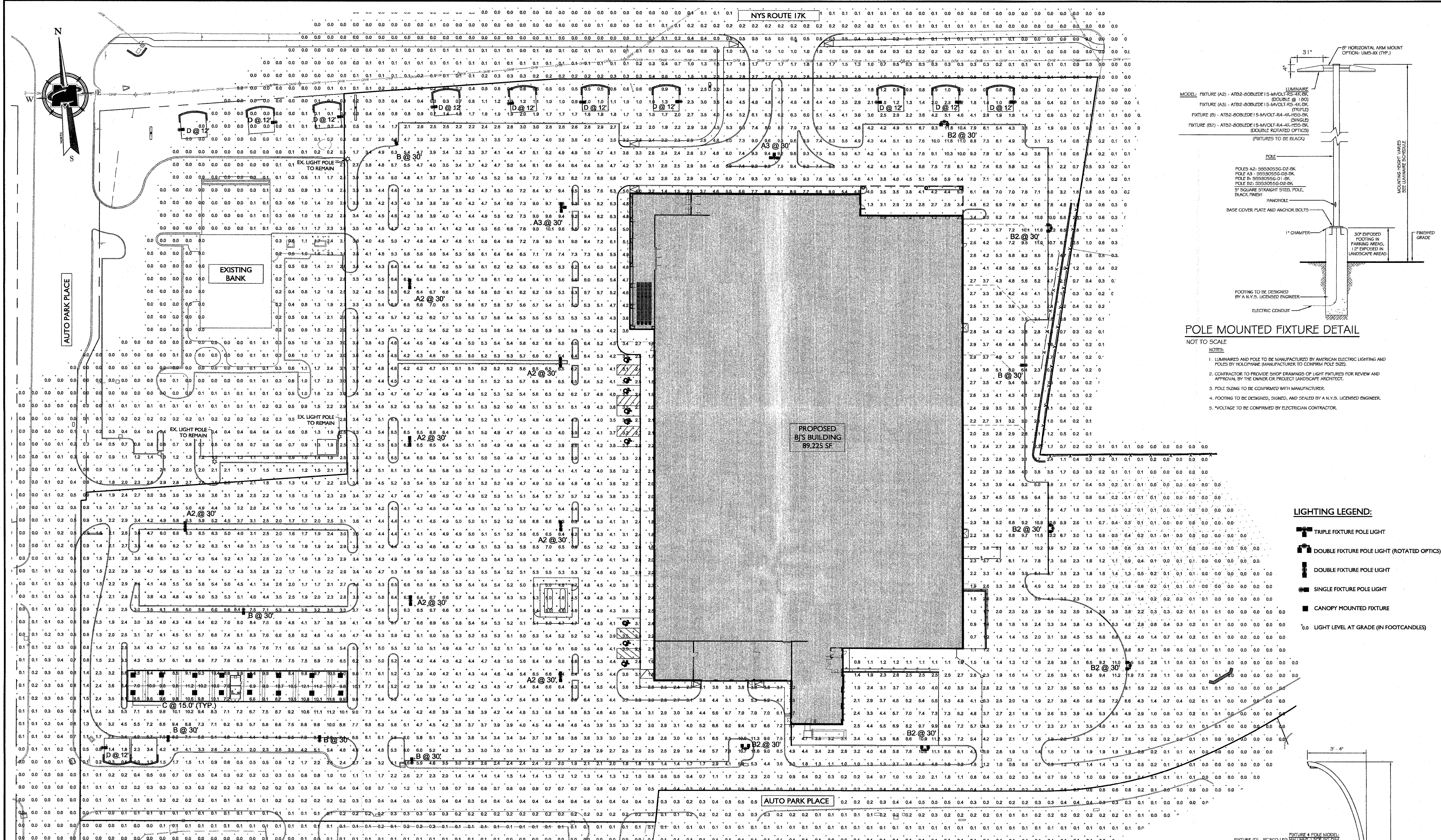


PLAN NOTE:
 1. THIS PLAN IS TO BE USED FOR LANDSCAPE PURPOSES ONLY.

LANDSCAPE NOTES:

- LOCATIONS OF ALL PLANT MATERIAL AND PLANTING BED OUTLINES IS APPROXIMATE AND MAY VARY DUE TO THE DIRECTION OF SITE IMPROVEMENTS AND/OR BUILDINGS.
- FINAL LOCATION OF ALL PLANT MATERIAL AND PLANTING BED OUTLINES SHALL BE DETERMINED IN THE FIELD UNDER THE DIRECTION OF THE PROJECT LANDSCAPE ARCHITECT.
- ALL AREAS WITHIN THE PLANTING BED LIMITS SHALL BE MULCHED WITH 3" OF SHREDDED HARDWOOD BARK MULCH.
- LAWN AREAS ON-SITE SHALL BE STABILIZED WITH SEED.
- ALL PLANT MATERIAL SHALL CONFORM TO GUIDELINES AS SET FORTH IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S STANDARD FOR NURSERY STOCK.
- NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE MADE WITHOUT WRITTEN CONSENT FROM THE PROJECT LANDSCAPE ARCHITECT OR THE TOWN OF NEWBURGH LANDSCAPE CONSULTANT.
- ALL LANDSCAPING SHALL CONTINUE TO BE MAINTAINED IN A HEALTHY GROWING CONDITION THROUGHOUT THE DURATION OF THE STRUCTURE OR USE WHICH IT IS INTENDED TO SERVE.





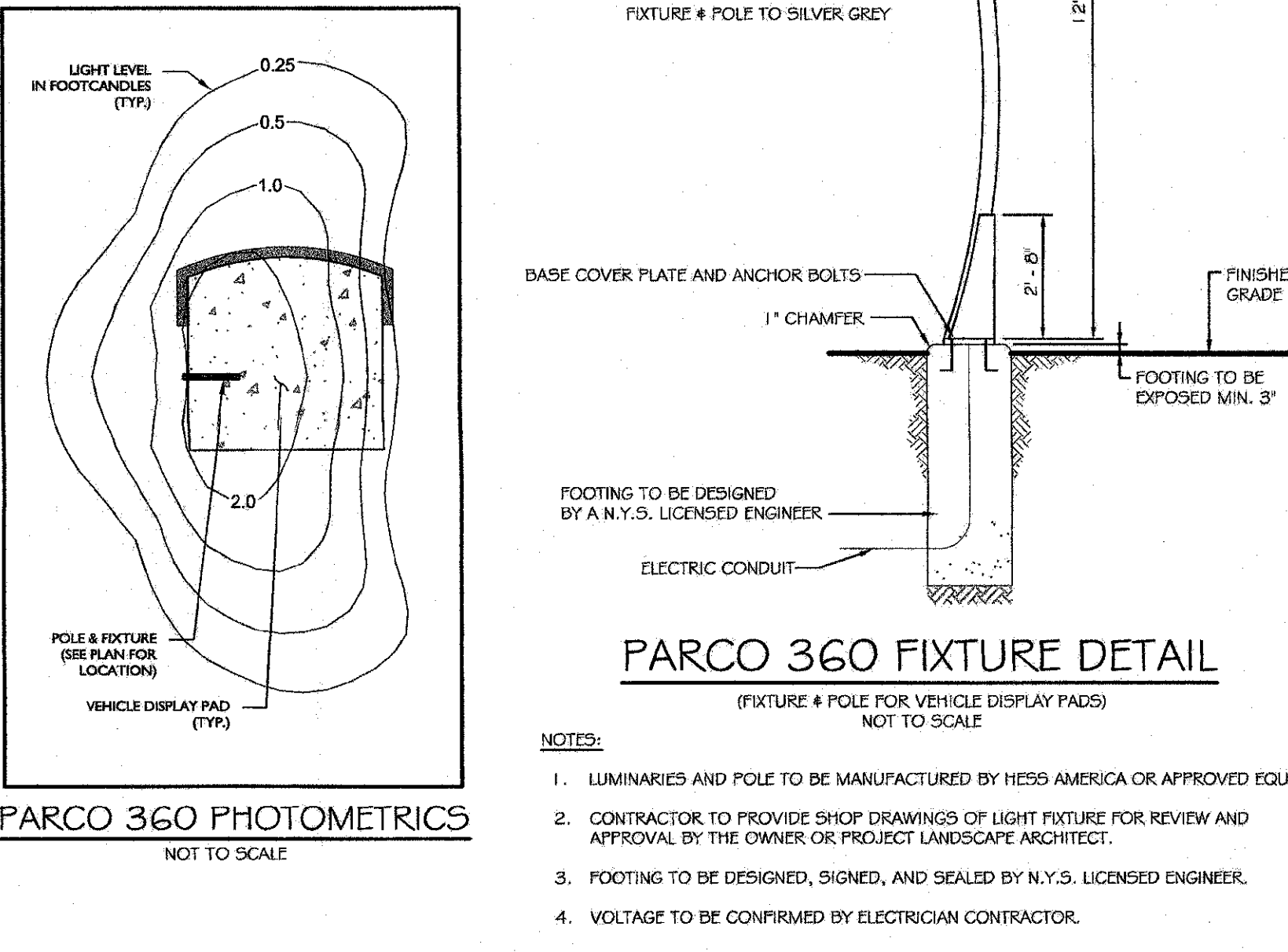
POLE MOUNTED FIXTURE DETAIL
 NOT TO SCALE

NOTES:
 1. LUMINAIRES AND POLE TO BE MANUFACTURED BY AMERICAN ELECTRIC LIGHTING AND POLES BY HOLOPHANE (MANUFACTURER TO CONFIRM POLE SIZE).
 2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES FOR REVIEW AND APPROVAL BY THE OWNER OR PROJECT LANDSCAPE ARCHITECT.
 3. POLE SIZING TO BE CONFIRMED WITH MANUFACTURER.
 4. FOOTING TO BE DESIGNED, SIGNED, AND SEALED BY A N.Y.S. LICENSED ENGINEER.
 5. VOLTAGE TO BE CONFIRMED BY ELECTRICIAN CONTRACTOR.

LIGHTING LEGEND:

- ☐ TRIPLE FIXTURE POLE LIGHT
- ☐ DOUBLE FIXTURE POLE LIGHT (ROTATED OPTICS)
- ☐ DOUBLE FIXTURE POLE LIGHT
- ☐ SINGLE FIXTURE POLE LIGHT
- ☐ CANOPY MOUNTED FIXTURE
- LIGHT LEVEL AT GRADE (IN FOOTCANDLES)

- LIGHTING NOTES:**
- THIS PLAN IS TO BE USED FOR LIGHTING PURPOSES ONLY.
 - POLES, LUMINAIRES AND FIXTURES AS SUPPLIED BY: CANOPY FIXTURES & POLES - HOLOPHANE POLE FIXTURES - AMERICAN ELECTRIC LIGHTING
 - LAMPS ARE TO BE LED. A LIGHT LOSS FACTOR (LLF) WAS USED AS SHOWN IN THE LUMINAIRE SCHEDULE.
 - FIXTURES AND POLES ARE TO BE BLACK. CANOPY FIXTURES TO BE WHITE.
 - POLE FIXTURES TO BE FIT WITH PHOTOCELL TO TURN FIXTURES ON (DUSK) AND FIXTURES TO BE TURNED OFF VIA THE CLOCK CONTROL (ONE (1) HOUR AFTER CLUB CLOSURE). RECEIVING/DELIVERY AREA FIXTURES TO BE TURNED OFF VIA PHOTOCELL (SUNRISE).
 - POLE MOUNTED FIXTURES SHALL BE PLACED A MINIMUM OF TWO (2) FEET BEHIND CURBS OR RETAINING WALLS IN CAR PARKING AREAS.
 - PROPOSED LIGHT FIXTURE LOCATIONS ARE CRITICAL TO PROVIDE THE LIGHTING LEVELS DEPICTED ON THIS PLAN. THE LIGHTING CONTRACTOR SHALL FIELD VERIFY FIXTURE LOCATIONS PRIOR TO INSTALLATION. IF ADJUSTMENT TO ANY LIGHT FIXTURE LOCATION IS REQUIRED DUE TO FINAL CONSTRUCTION OF UTILITIES AND SITE IMPROVEMENTS, THE LIGHTING CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
 - LIGHTING SHOWN ON PLAN DEPICTS AVERAGE MAINTAINED FOOTCANDLE LEVELS AT GRADE.
 - CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES FOR REVIEW AND APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT.
 - ELECTRICAL PLANS FOR WIRING LAYOUT BY OTHERS.
 - POLE BASE INSTALLATION SHALL INCLUDE A SUPPLEMENTARY GROUND ROD AND WIRE LEAD TO BASE FOR POWER CONNECTION. DETAILS PER PROJECT ELECTRICAL ENGINEER.



PARCO 360 FIXTURE DETAIL
 NOT TO SCALE

NOTES:
 1. LUMINAIRES AND POLE TO BE MANUFACTURED BY HESSO AMERICA OR APPROVED EQUAL.
 2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURE FOR REVIEW AND APPROVAL BY THE OWNER OR PROJECT LANDSCAPE ARCHITECT.
 3. FOOTING TO BE DESIGNED, SIGNED, AND SEALED BY N.Y.S. LICENSED ENGINEER.
 4. VOLTAGE TO BE CONFIRMED BY ELECTRICIAN CONTRACTOR.

LUMINAIRE SCHEDULE

KEY	QTY.	DESCRIPTION	ARRANGEMENT	MTG. HT.	LUMENS/LAMP	LLF	CATALOG #
A2	7	AMERICAN ELECTRIC LIGHTING - ATB2 SERIES LED	DOUBLE	30'	44,744	0.87	ATB2 80BLEDE15 MVOLT R5 4K BK
A3	2	AMERICAN ELECTRIC LIGHTING - ATB2 SERIES LED	TRIPLE	30'	44,744	0.87	ATB2 80BLEDE15 MVOLT R5 4K BK
B	6	AMERICAN ELECTRIC LIGHTING - ATB2 SERIES LED	SINGLE	30'	32,900	0.87	ATB2 80BLEDE15 MVOLT R4 4K BK HSS
B2	6	AMERICAN ELECTRIC LIGHTING - ATB2 SERIES LED	DOUBLE - ROTATED OPTICS	30'	32,900	0.87	ATB2 80BLEDE15 MVOLT R4 4K BK HSS
C	16	HOLOPHANE PARKPARK SQUARE - CANOPY LED	SINGLE	15'	5,583	0.93	PPSOL2 P40 40K FC TSM SSM WHSDP
D	11	HESSAMERICA - PARCO 360 12"	SINGLE	12'	2,486	0.87	PC360LED(X)WJN-12CR-SG

NOTE:
 1. LIGHT FIXTURE VOLTAGE REQUIREMENTS TO BE CONFIRMED BY CONTRACTOR PRIOR TO ORDERING.

CALCULATION SUMMARY

DESCRIPTION	CALC. TYPE	UNITS	AVG.	MAX.	MIN.	AVG. / MIN.
ROUTE 17K ENTRANCE DRIVEWAY AREA	ILLUMINANCE	FC	7.2	9.9	3.6	2.0:1
FUELING AREA	ILLUMINANCE	FC	6.6	12.1	1.3	5.1:1
MEMBER AREA - ADJACENT TO BREEZEWAY	ILLUMINANCE	FC	5.5	10.1	2.4	2.3:1
MEMBER AREA - ADJACENT TO TIRE CENTER	ILLUMINANCE	FC	5.2	11.3	1.4	3.7:1
PARKING AREAS	ILLUMINANCE	FC	4.5	7.7	1.1	4.1:1
RECEIVING AREAS (EASTERN SIDE OF BUILDING)	ILLUMINANCE	FC	4.6	12.2	0.7	6.6:1

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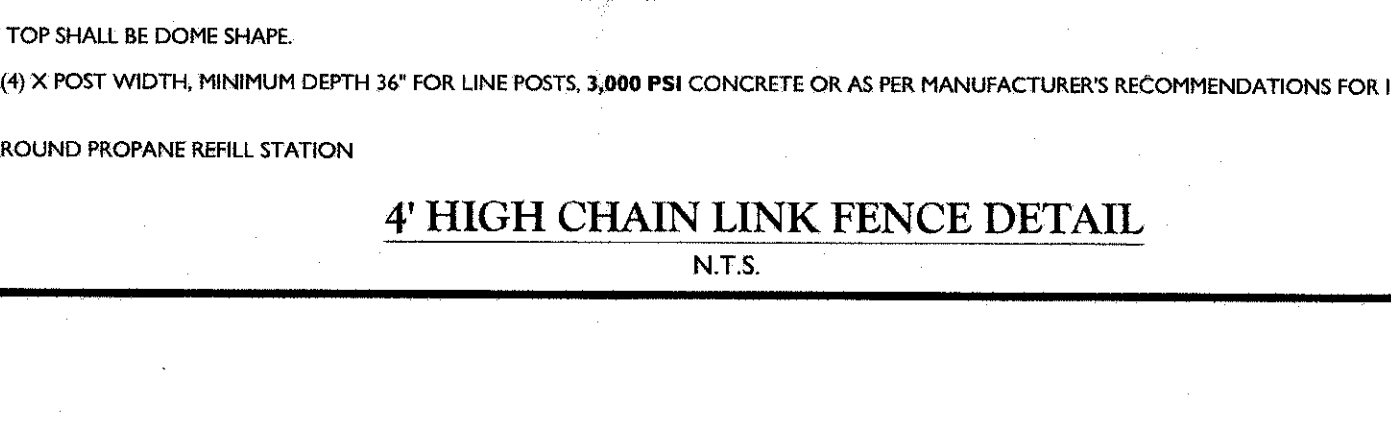
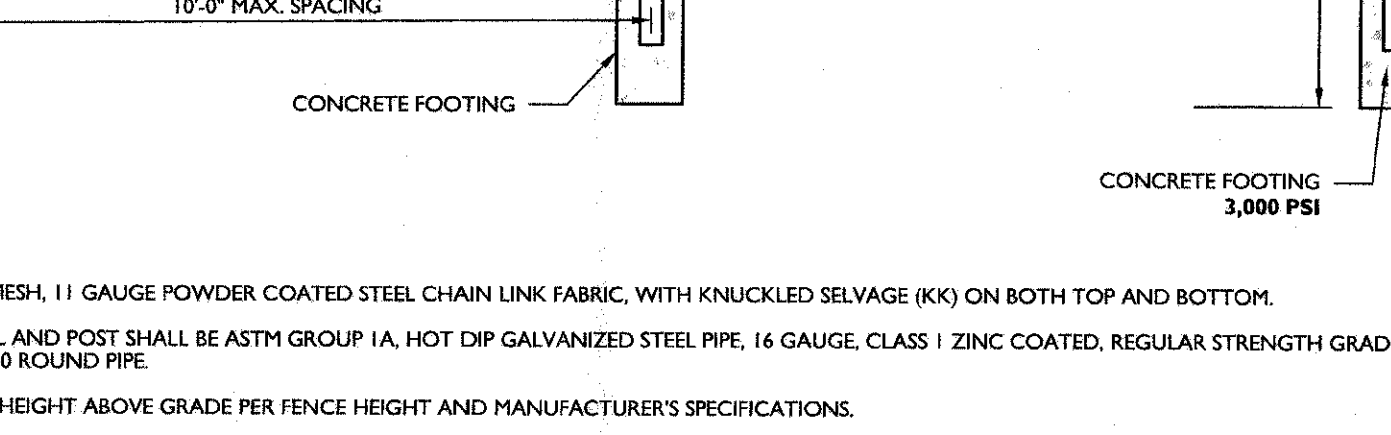
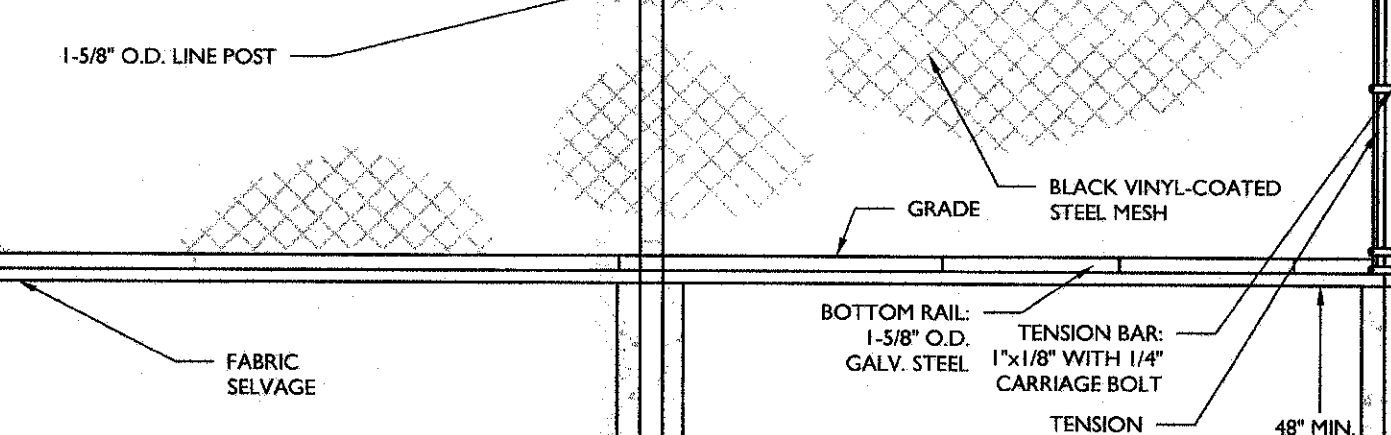
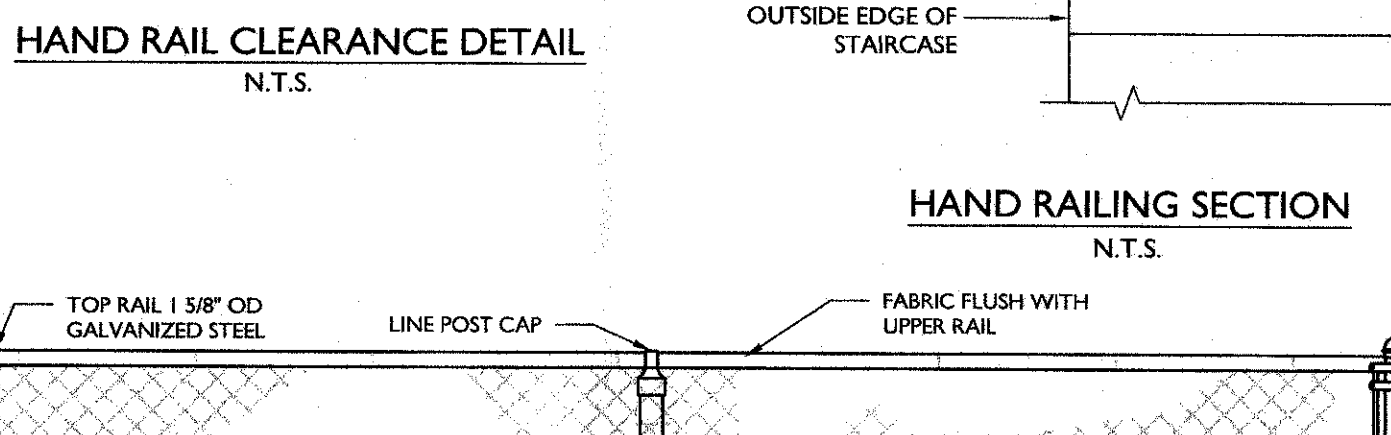
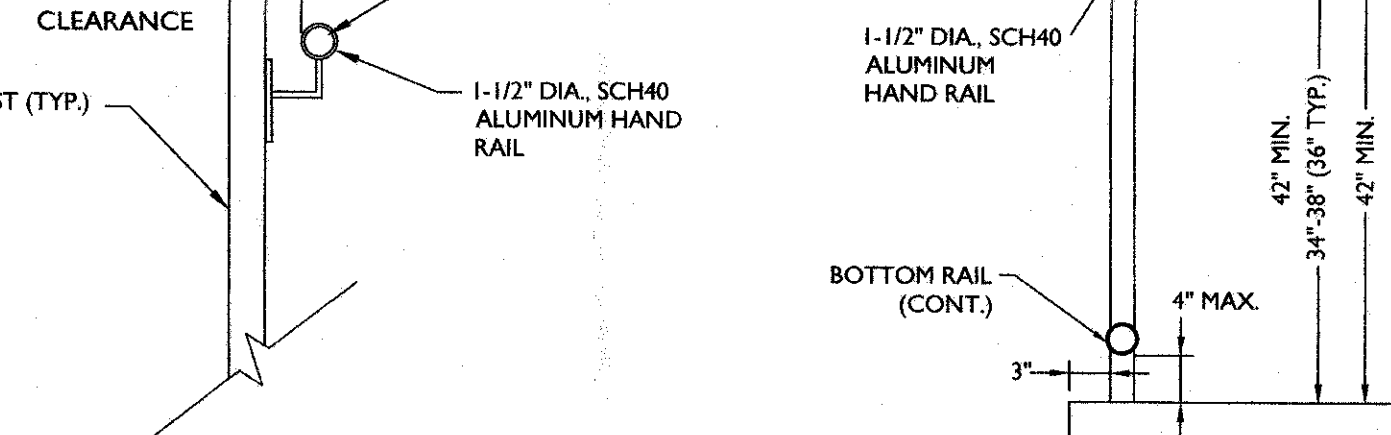
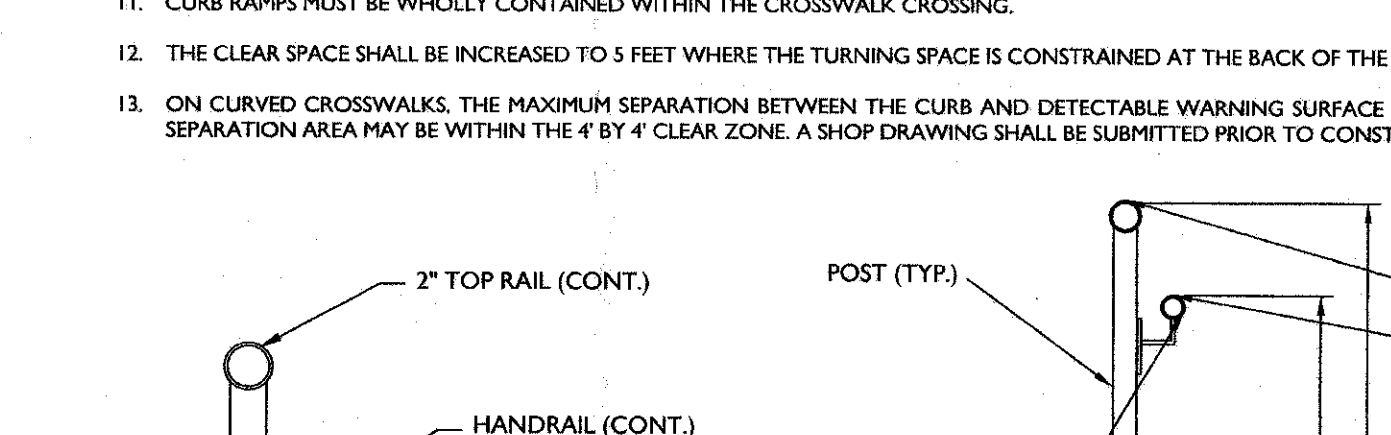
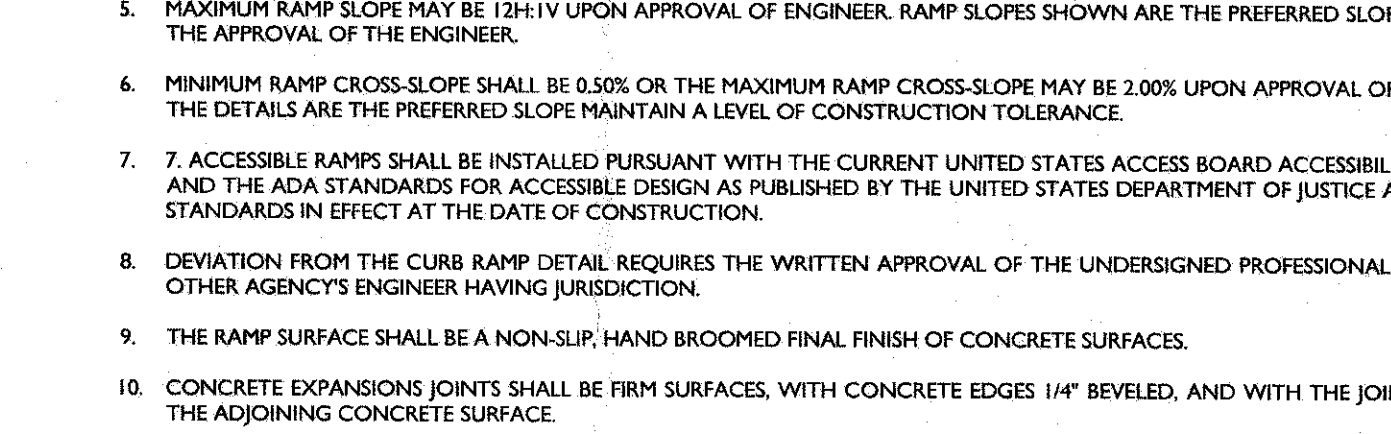
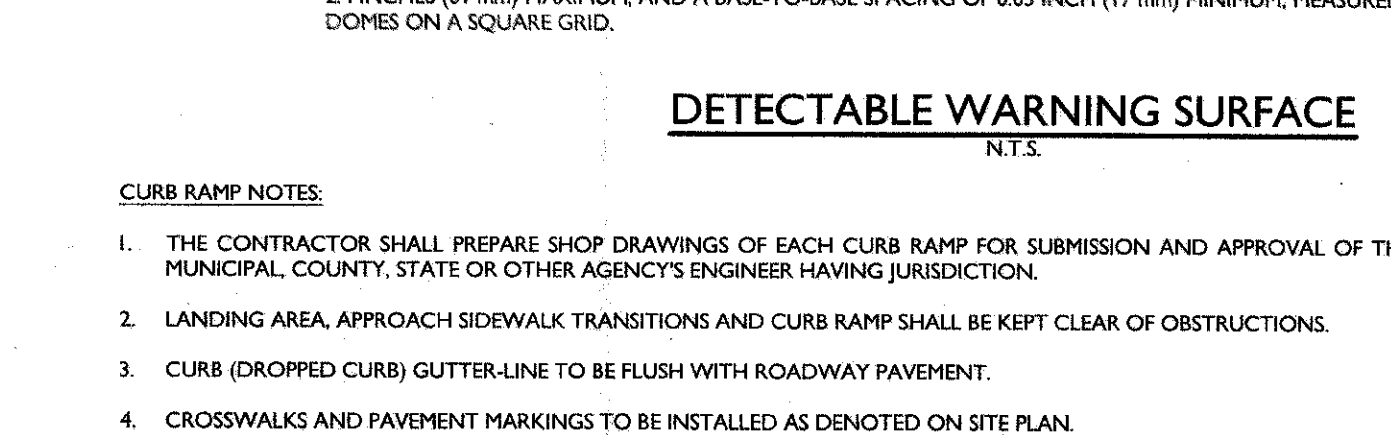
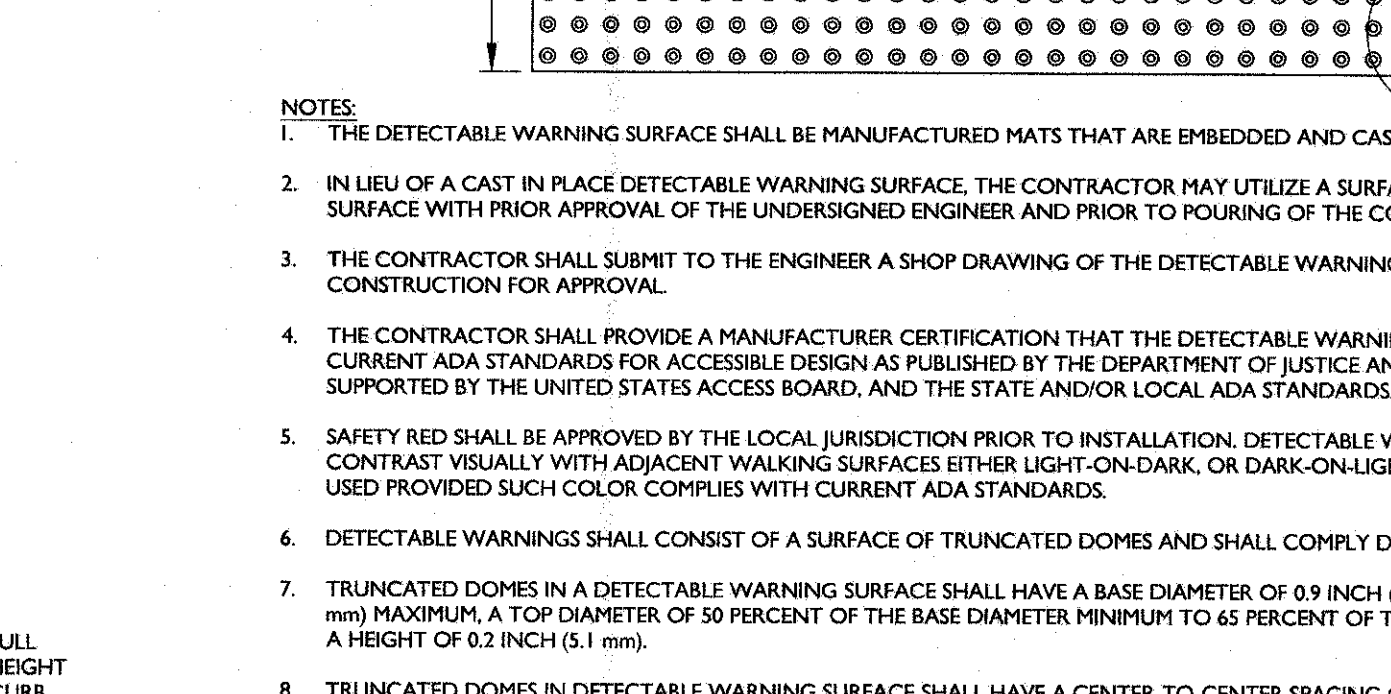
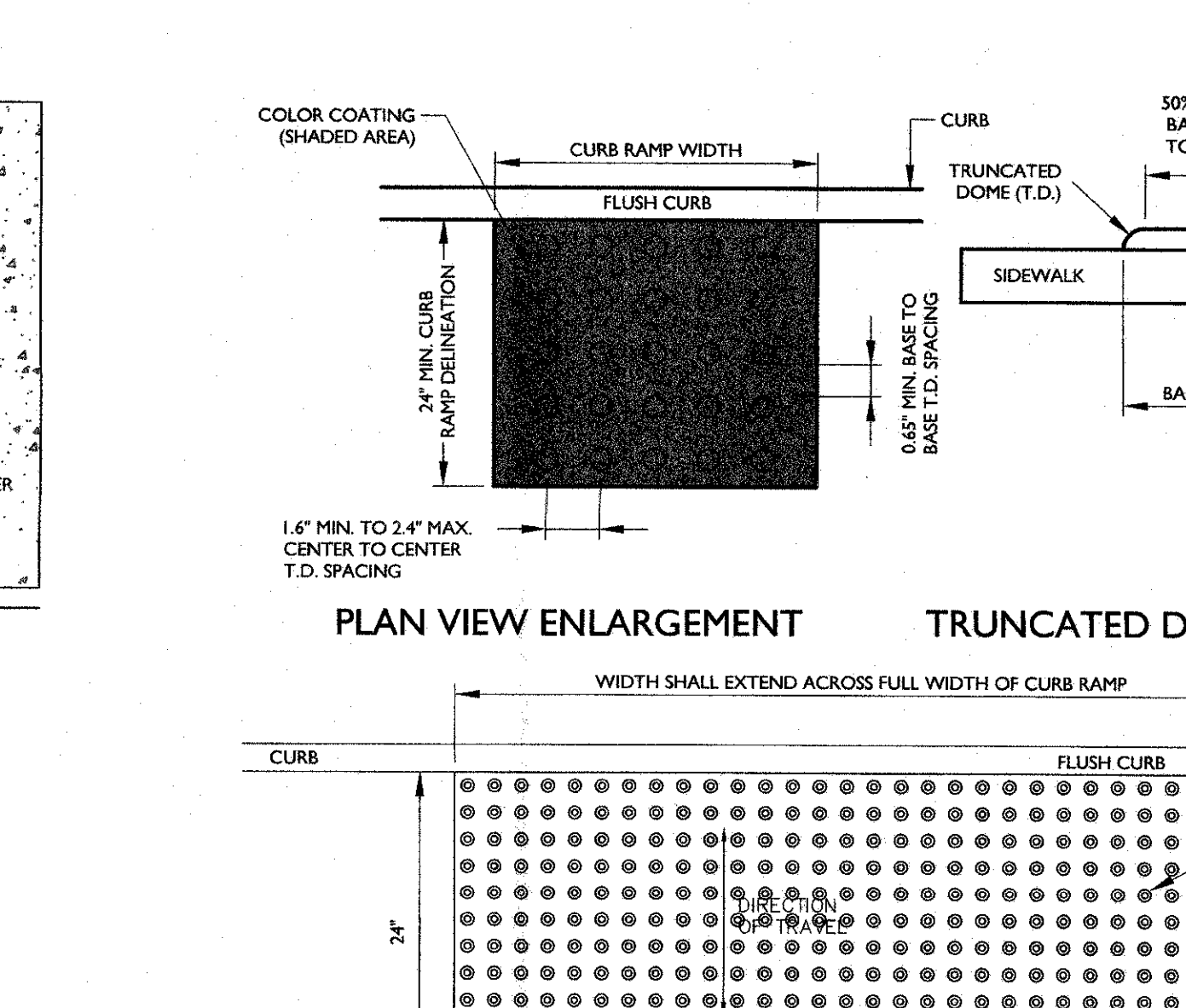
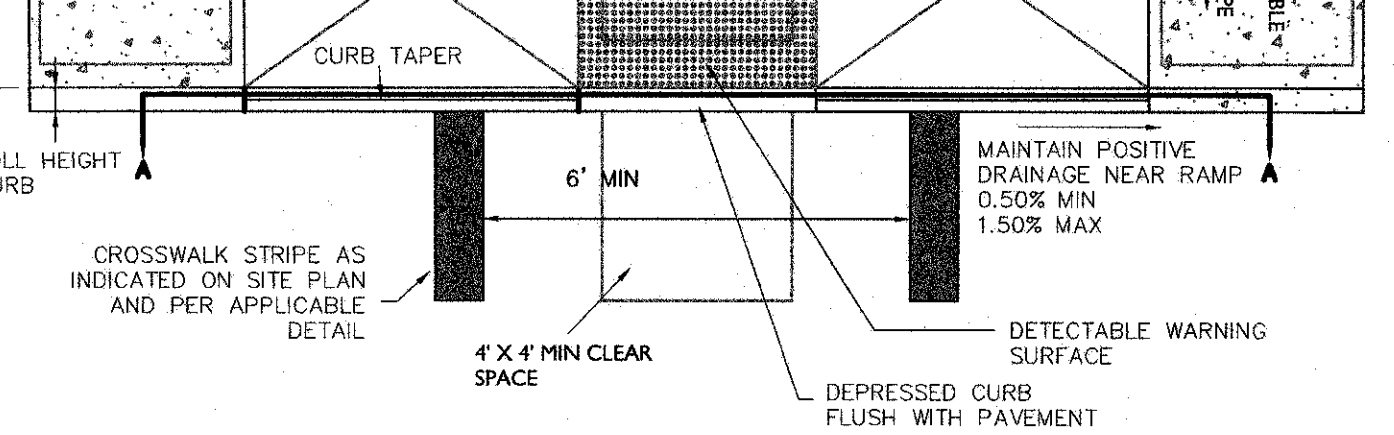
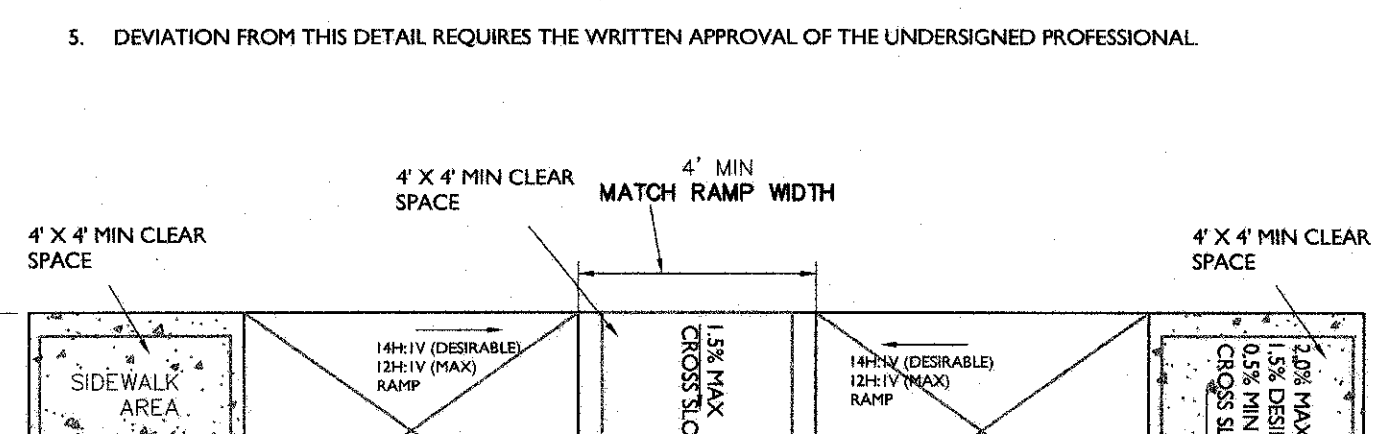
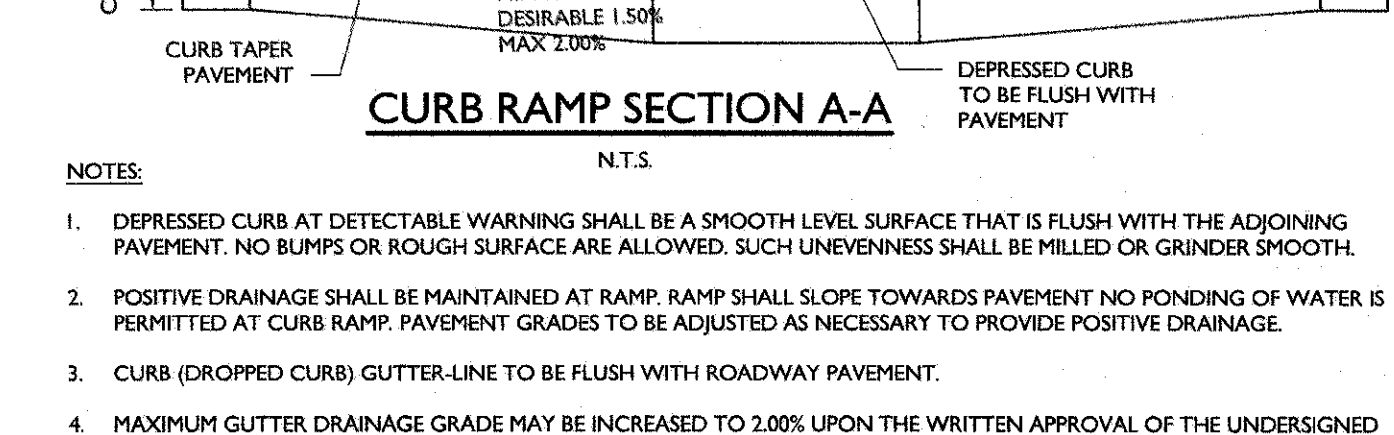
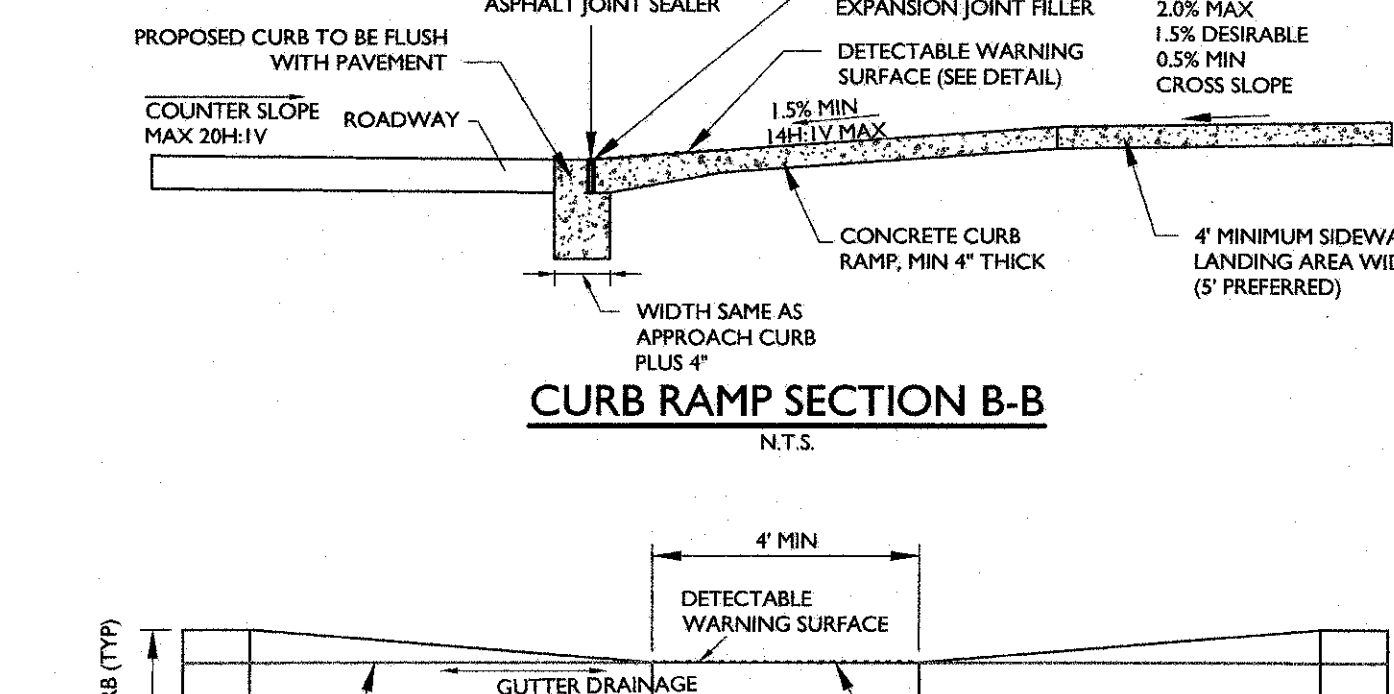
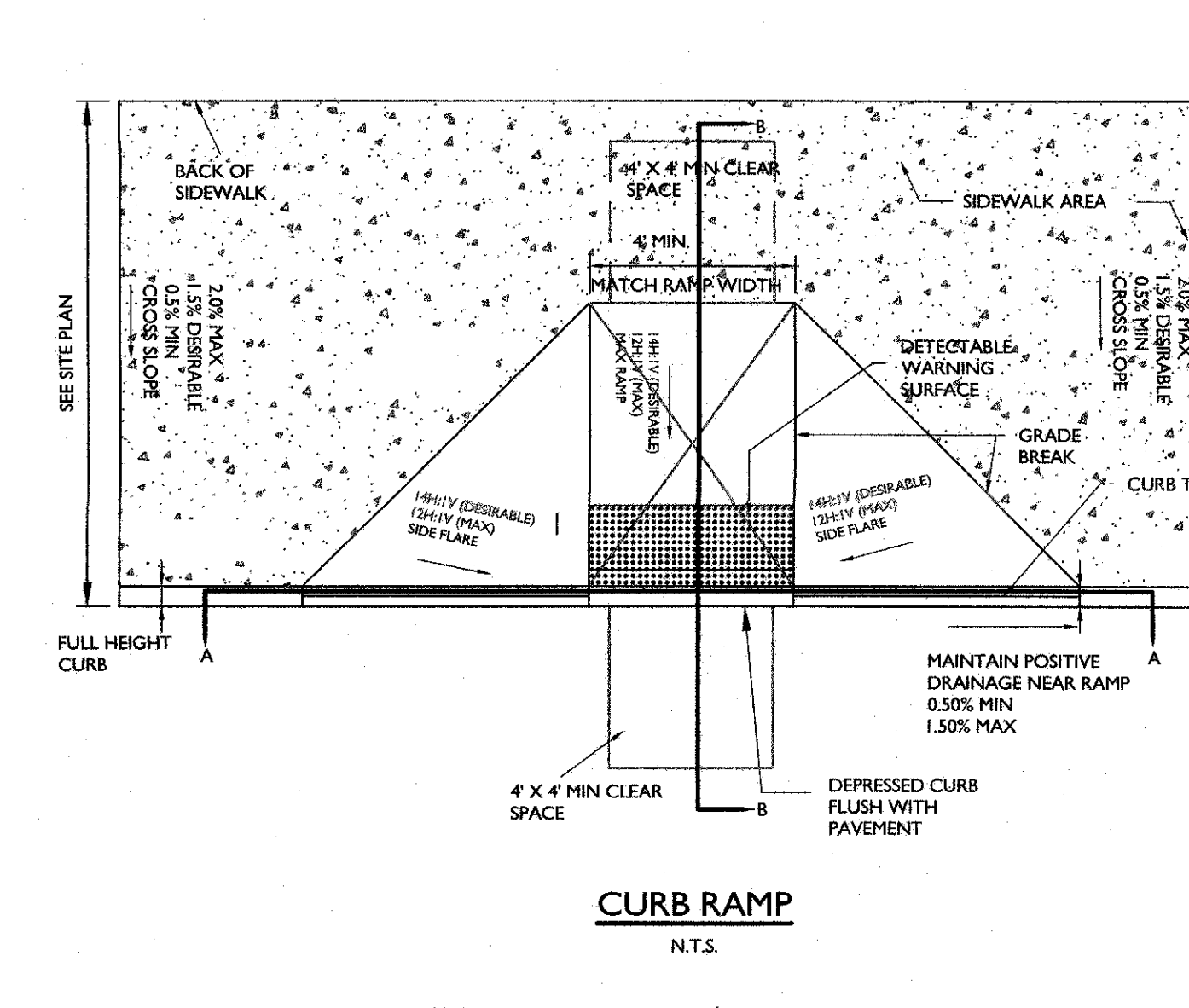
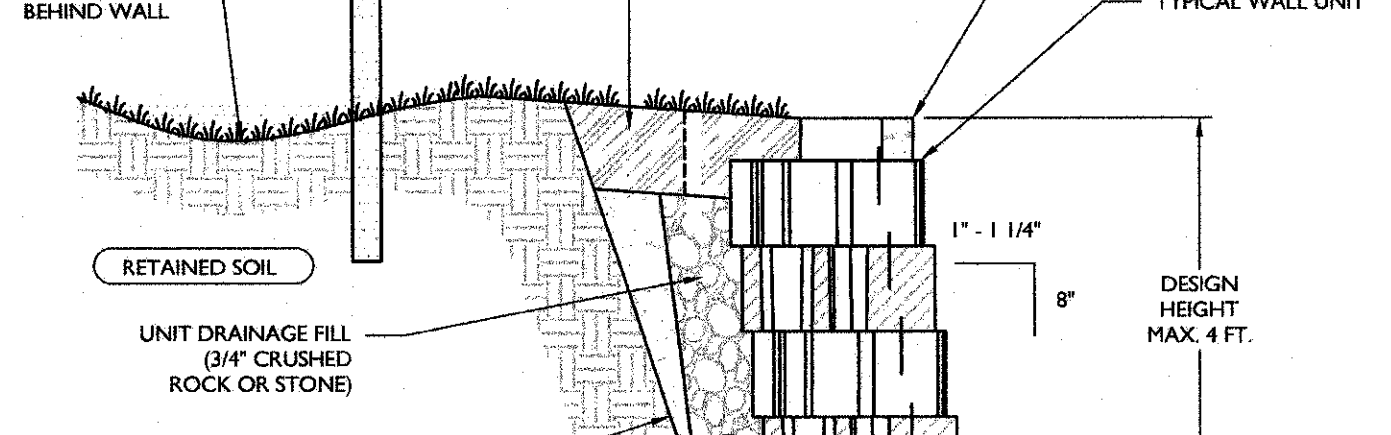
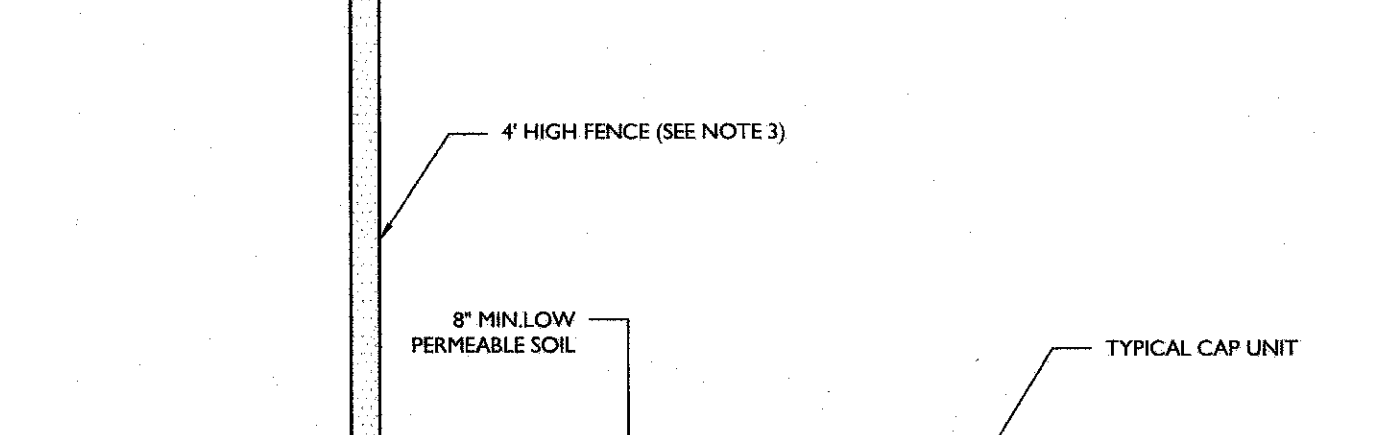
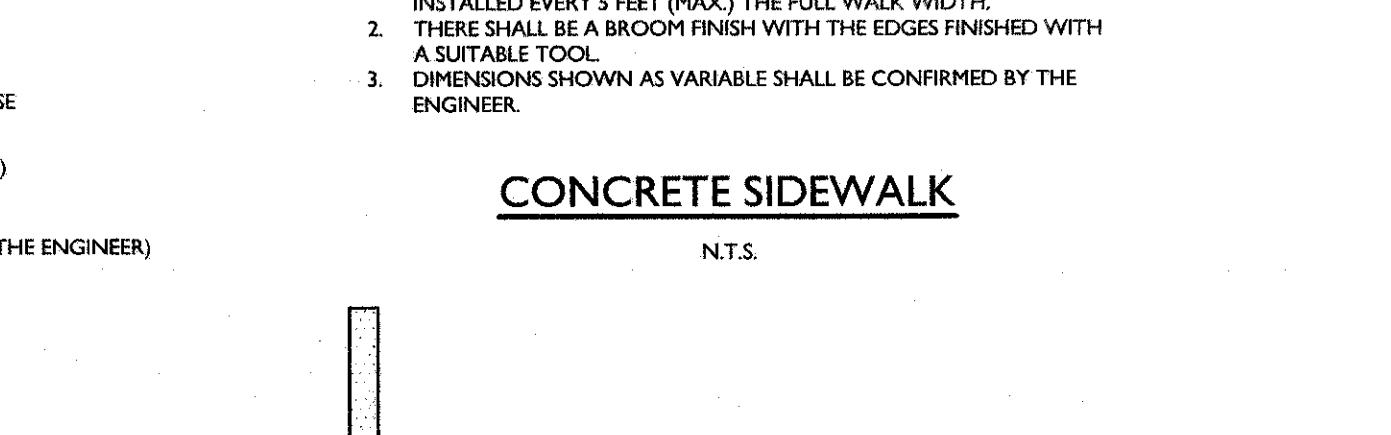
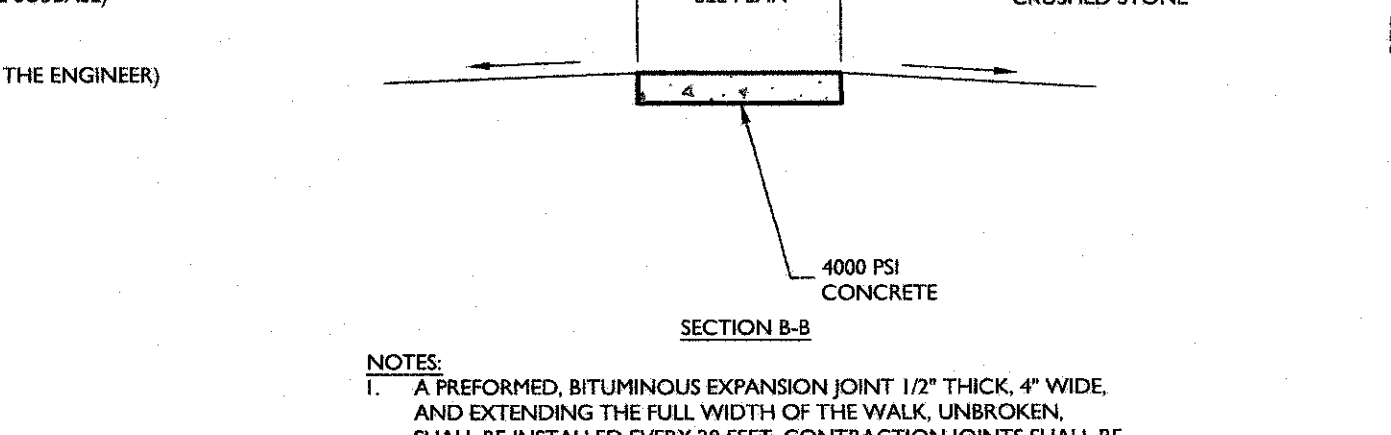
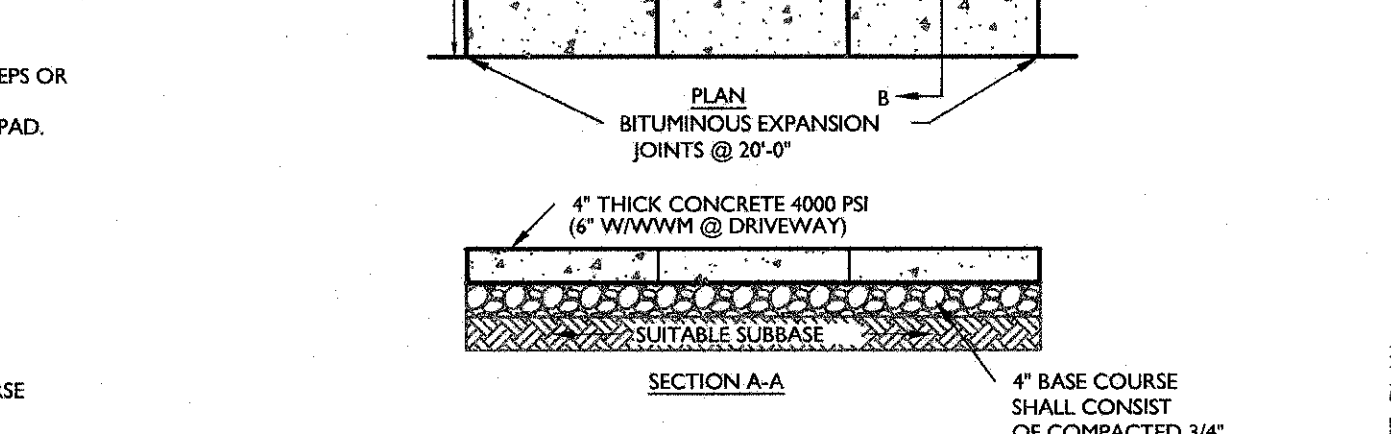
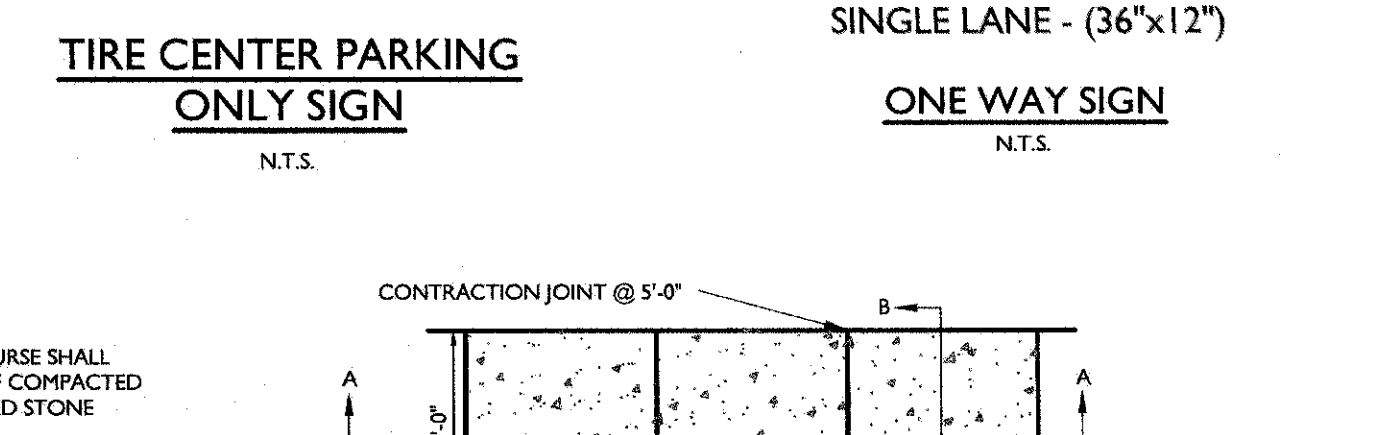
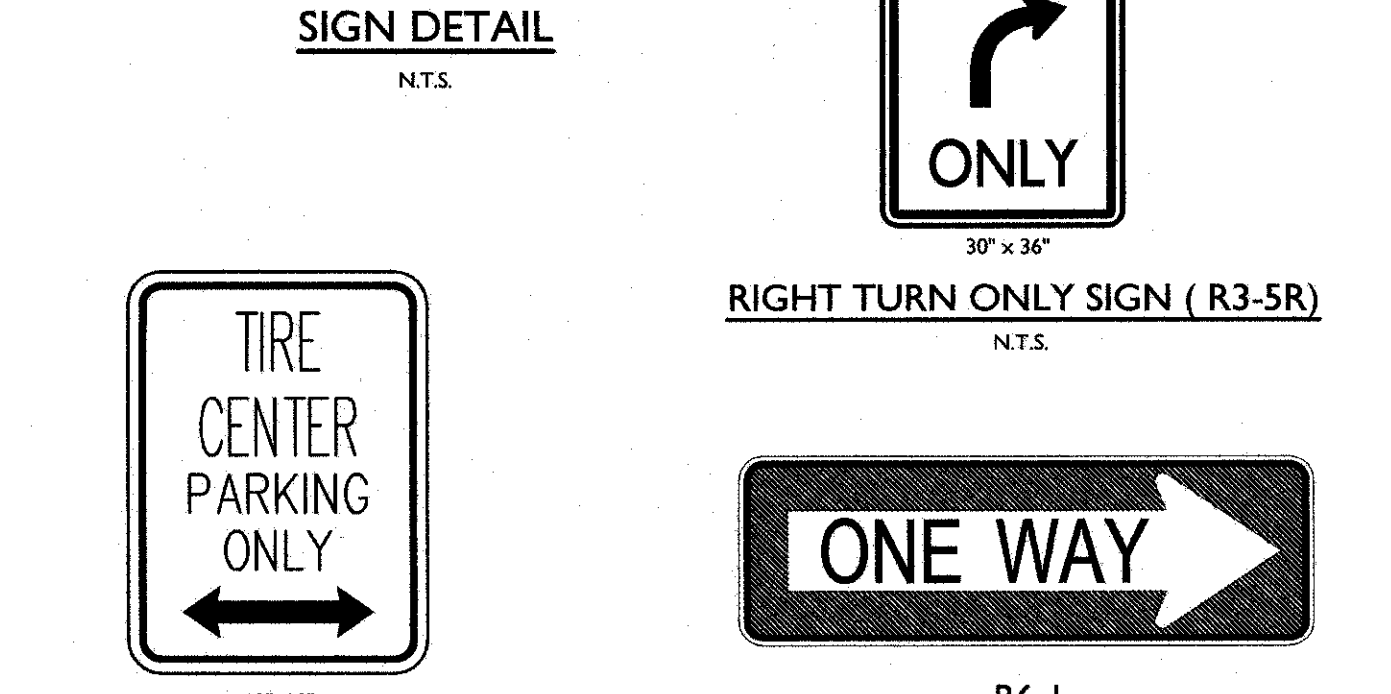
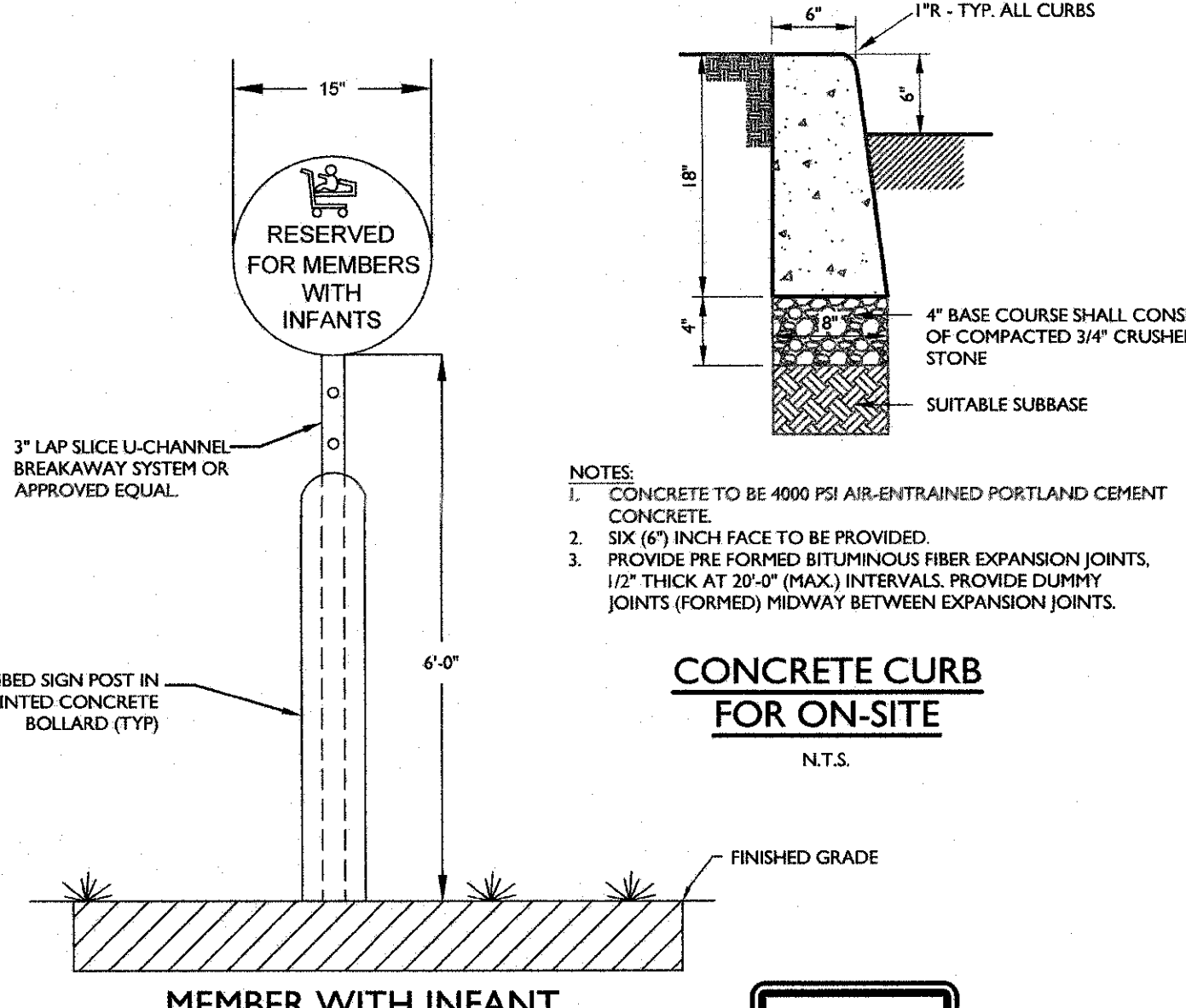
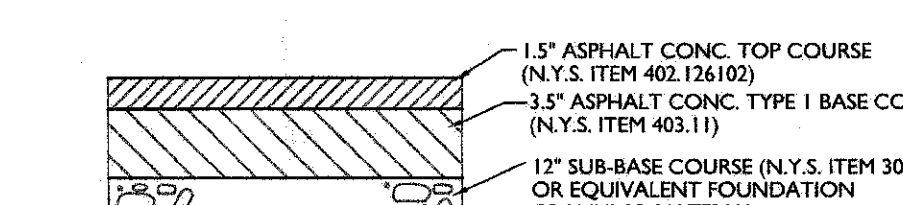
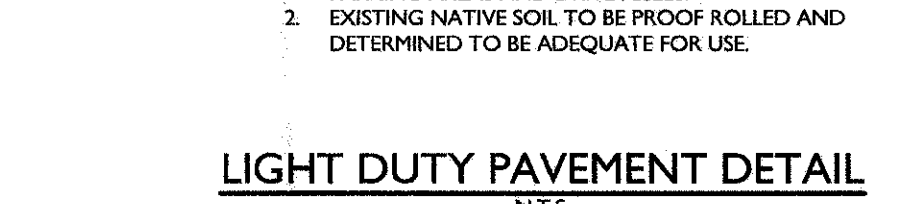
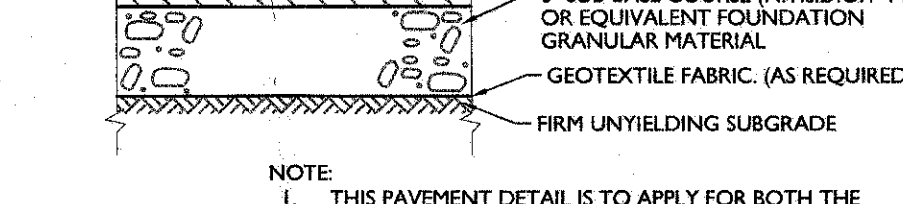
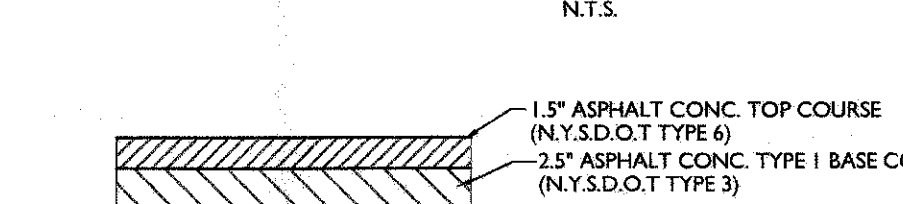
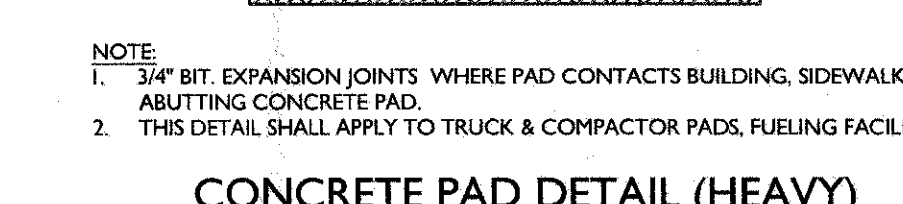
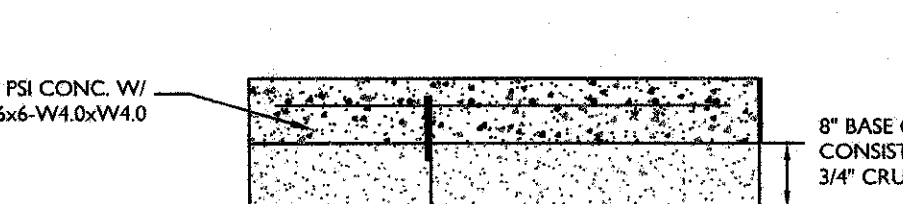
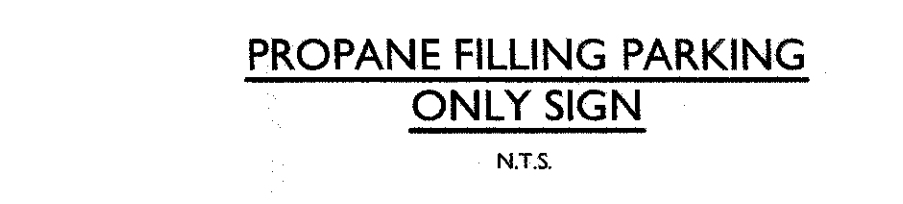
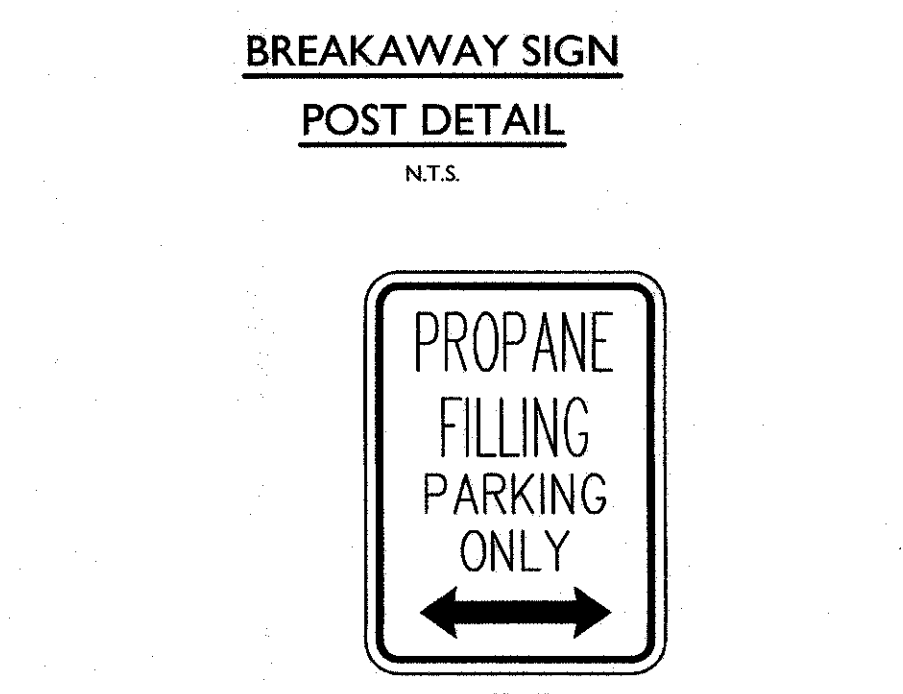
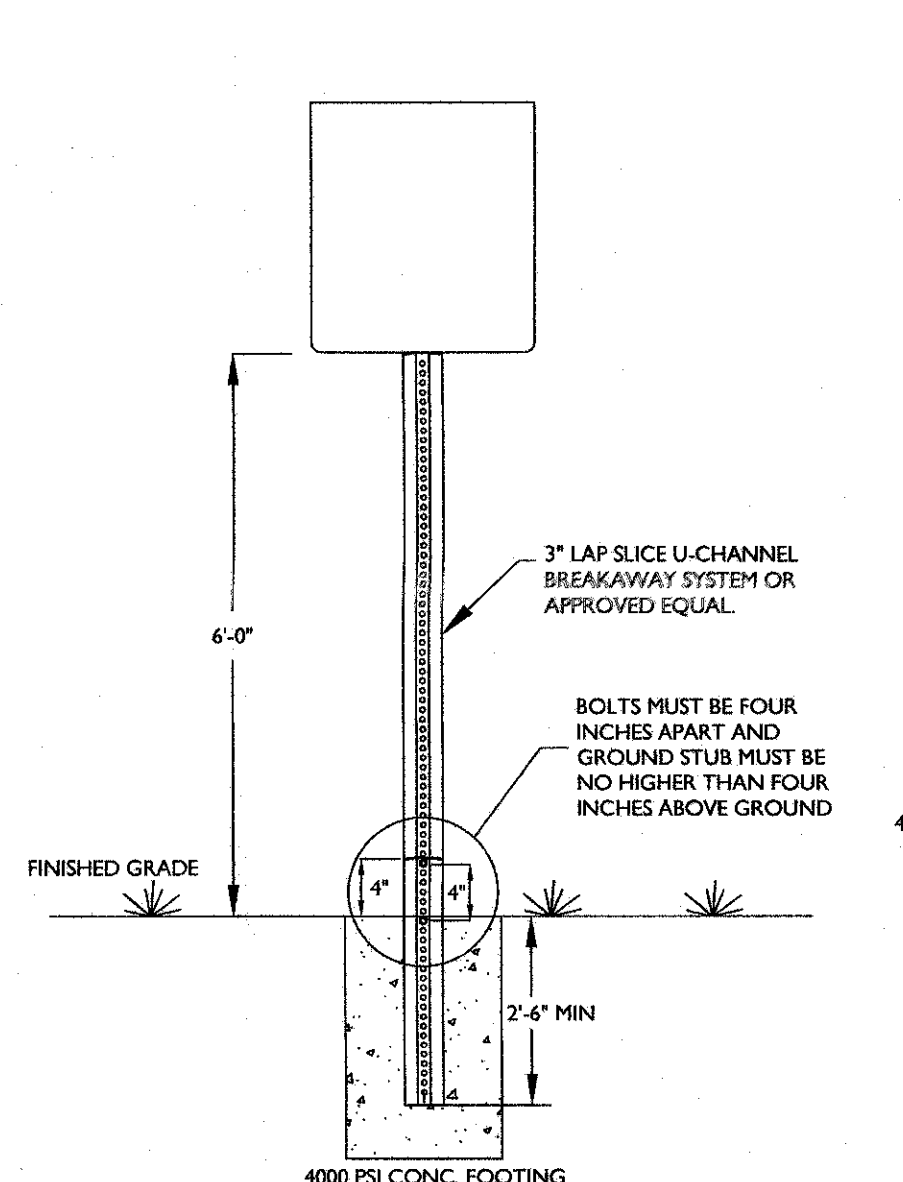
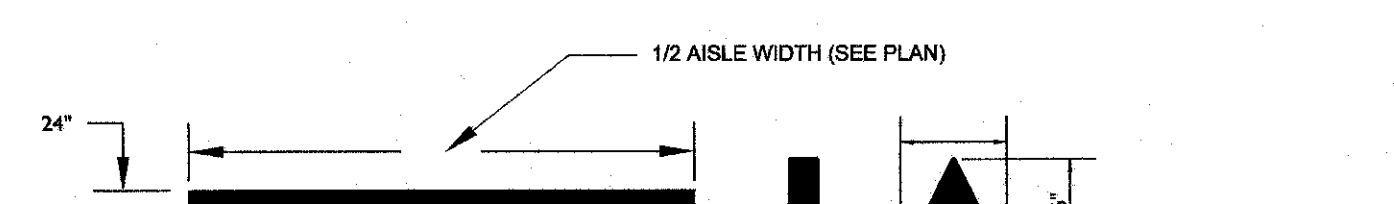
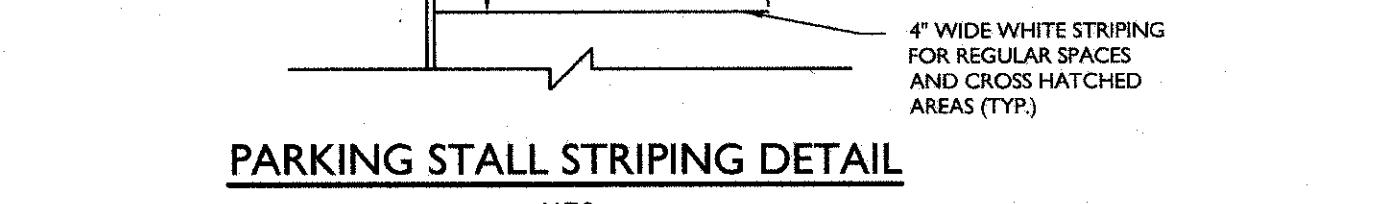
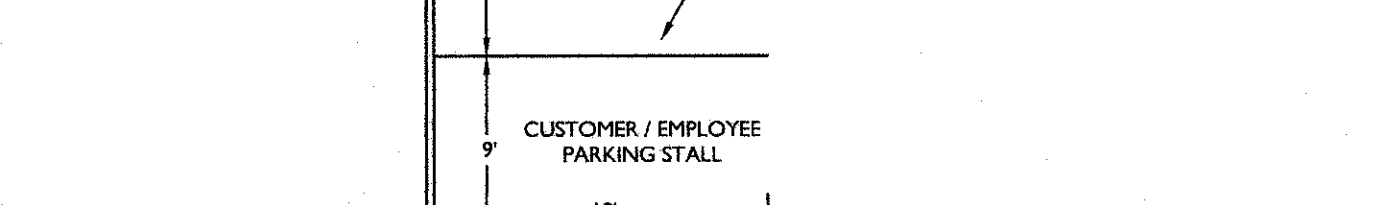
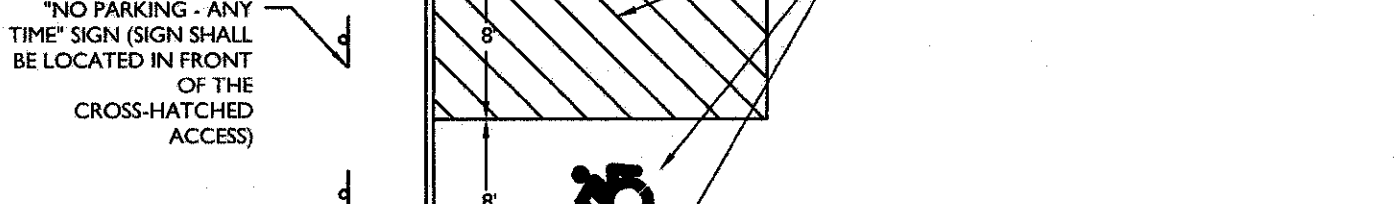
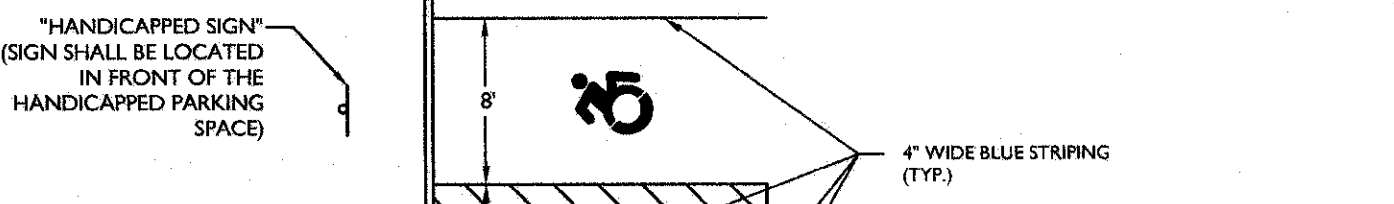
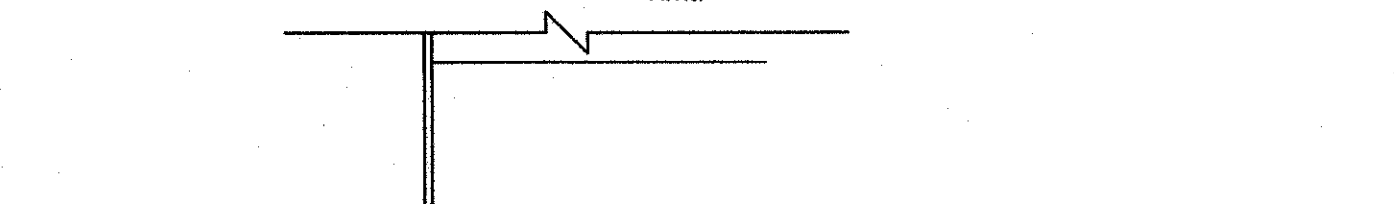
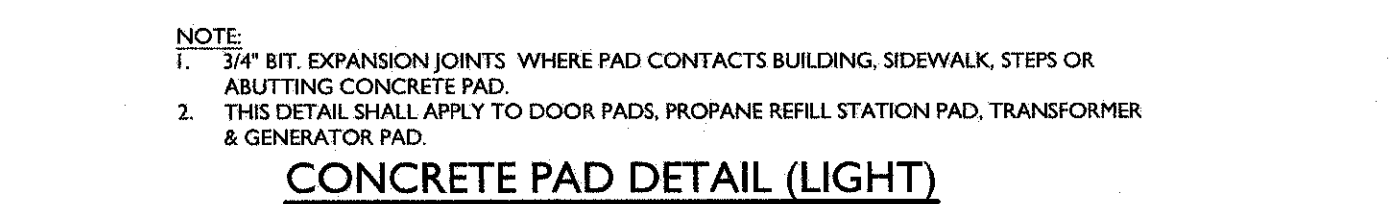
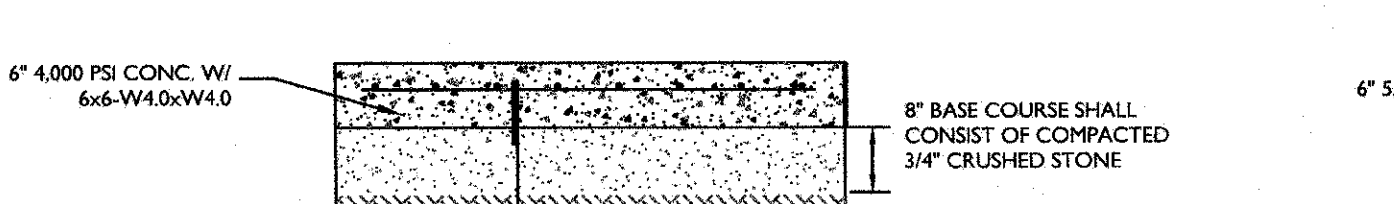
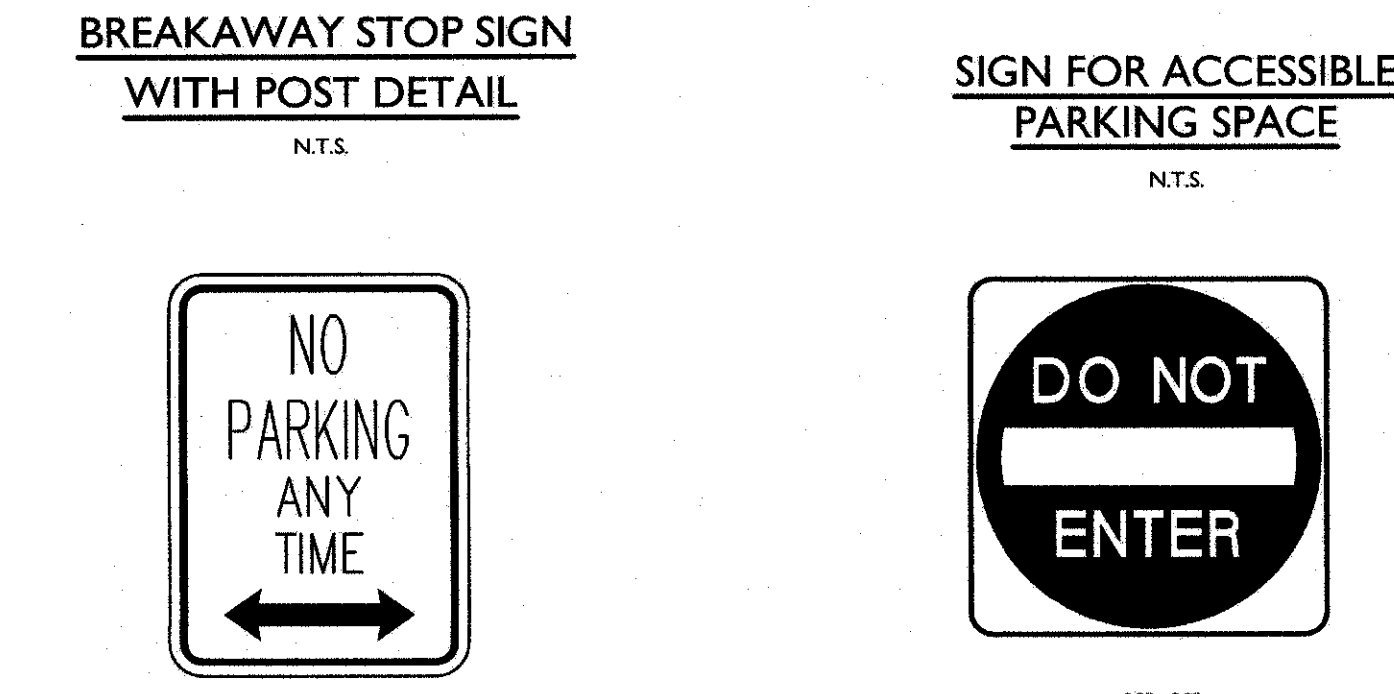
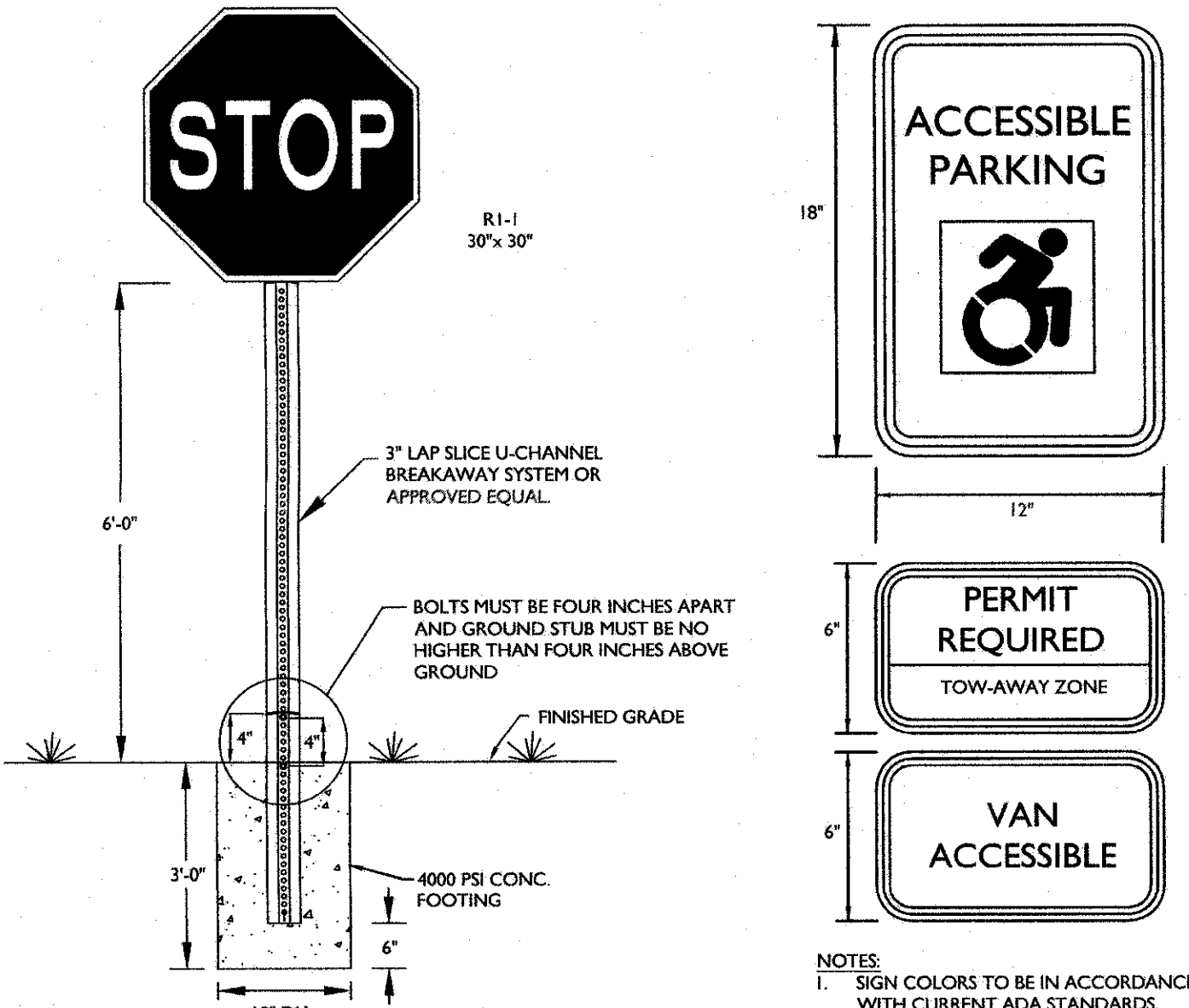
TOWN OF NEWBURGH
 ORANGE COUNTY
 NEW YORK STATE

NEW WINDSOR OFFICE
 555 Hudson Valley Avenue
 Suite 101
 New Windsor, NY 12553
 Phone: 845.564.4495
 Fax: 845.567.1025

SCALE: AS SHOWN 05/24/17 DRAWN BY: CPM CHECKED BY: JED
 PROJECT NUMBER: 1800471A DRAWING NAME: CLIGHT

LIGHTING PLAN

10 of 15



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NO.	DATE	DESCRIPTION
1	08/11/18	ISSUED FOR PERMITTING AND SWIRE DESIGN
2	07/11/19	REVISED PER PLANNING BOARD COMMENTS & DODCH SUBMISSION
3	08/21/19	REVISED PER TOWN, OCCDH, & INTERNAL CAD/CAM COMMENTS

ANDREW B. FETHERSTON
NEW YORK LICENSED PROFESSIONAL ENGINEER - LICENSE NUMBER 07355-1

BJ'S WHOLESALE CLUB
FOR **GDPBJ, LLC**

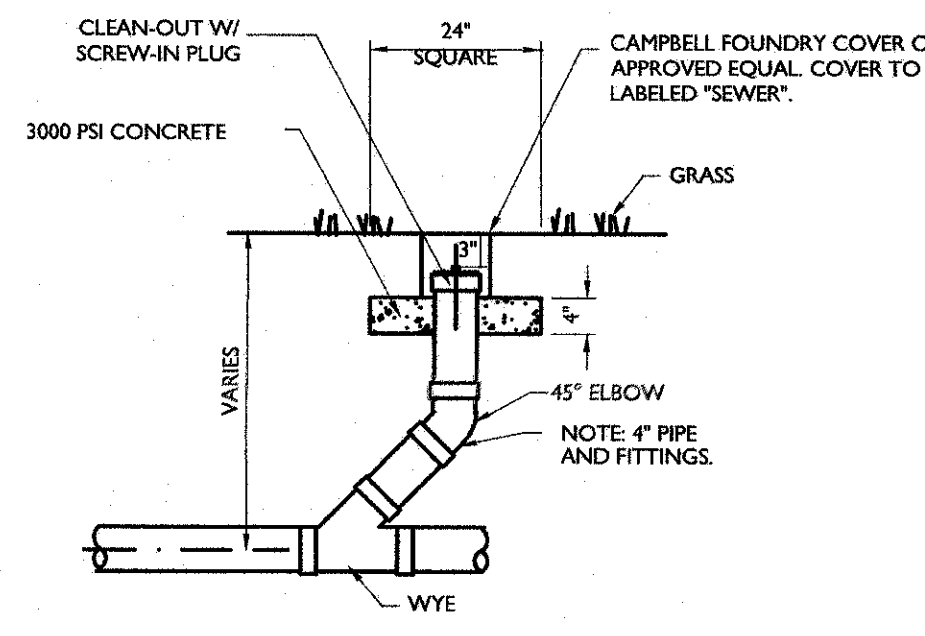
SECTION 97
BLOCK 2
LOTS 27.32, 44, 45 & 46.2

TOWN OF NEWBURGH
ORANGE COUNTY
NEW YORK STATE

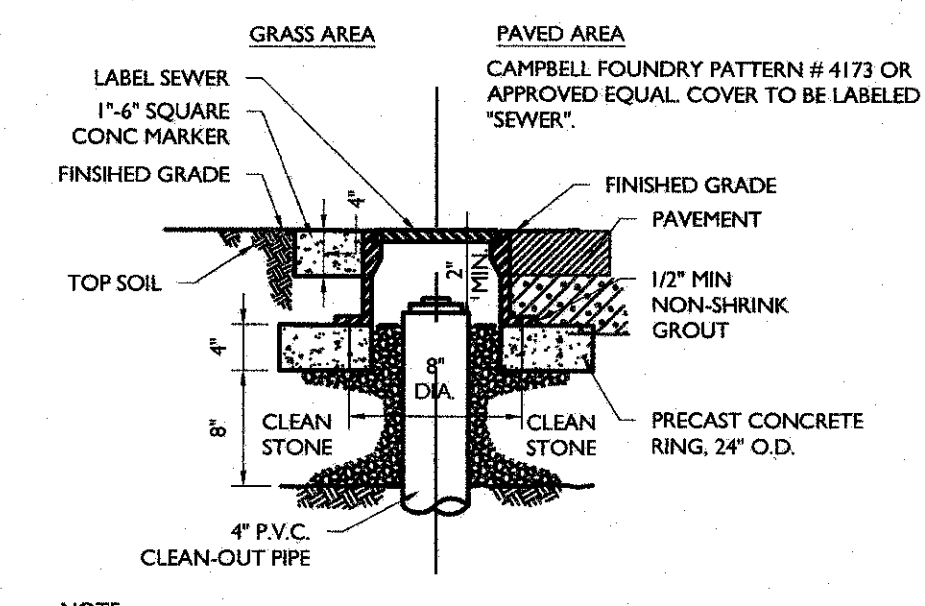
CONSTRUCTION DETAILS
11 of 15

SANITARY SEWER NOTES

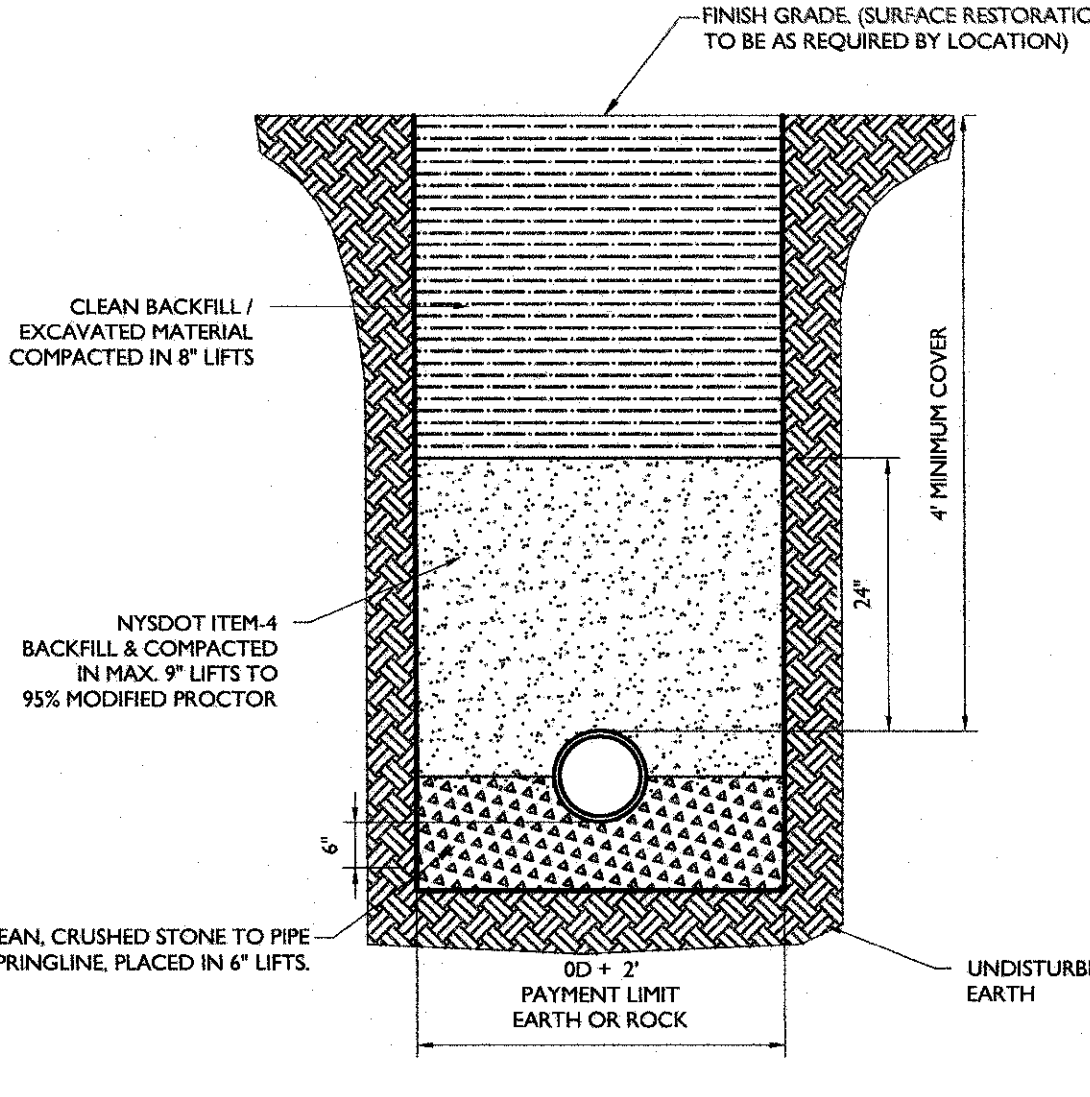
1. SANITARY SEWERS ARE TO BE OF SDR 35 PVC (OR HEAVIER IF REQUIRED BY THE MUNICIPALITIES ENGINEER DUE TO LOADING CONDITIONS).
 2. ALL LATERALS TO BE INSTALLED BY PLUMBERS LICENSED IN THE MUNICIPALITY AND ALL WORK SHALL BE INSPECTED BEFORE BACKFILLING.
 3. ALL PIPE SHALL BE BEDDED (CUSHIONED) ON MINIMUM OF 6" THICK LAYER OF 3/4" CRUSHED STONE. ADDITIONALLY, THE 3/4" CRUSHED STONES SHALL BE PLACED 1/4 THE HEIGHT OF THE PIPE ZONE.
 4. SANITARY SEWER CONSTRUCTION SHALL MEET ALL SEWER CONSTRUCTION SPECIFICATIONS FOR THE TOWN OF NEWBURGH.
 5. A REPRESENTATIVE FROM THE TOWN MUST BE PRESENT FOR ALL TESTING OF THE SANITARY SEWERS.
 6. TEST RESULTS FOR THE FOLLOWING TESTS MUST BE SUBMITTED AND ACCEPTED BY THE TOWN PRIOR TO USE. TV INSPECTION SHALL BE PERFORMED ON SANITARY SEWERS AS REQUIRED BY THE TOWN.
- VACUUM TEST**
THE VACUUM TEST SHALL MEET THE REQUIREMENTS OF C1344.01 STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY THE NEGATIVE AIR PRESSURE (VACUUM) TEST PRIOR TO BACKFILL.
- LEAKAGE TESTS**
LEAKAGE TESTS SHALL BE SPECIFIED. THIS MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING. THE TESTING METHODS SELECTED SHOULD TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGN LIFE OF THE SEWER.
- WATER (HYDROSTATIC) TEST**
THE LEAKAGE EXFILTRATION OR INFILTRATION SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER HOLE PER DAY (102 MM/INCH OF PIPE DIAMETER/DAY) FOR ANY SECTION OF THE SYSTEM. AN EXFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET (600 MM).
- DEFLECTION TEST**
DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL. PIPE SYSTEMS NO PIPE SHALL EXCEED A DEFLECTION OF 5 PERCENT. IF DEFLECTION EXCEEDS 5 PERCENT, REPLACEMENT OR CORRECTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH REQUIREMENTS IN THE APPROVED SPECIFICATIONS. THE RIGID BALL OR MANHOLE USED FOR THE DEFLECTION TEST SHALL HAVE A DIAMETER NOT LESS THAN 95 PERCENT OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX, TO WHICH THE PIPE IS MANUFACTURED. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
- LAMP ALIGNMENT TEST**
INFLUXION EXFILTRATION AND VISUAL TESTS BY MEANS OF LIGHT FLASHING BETWEEN MANHOLES SHALL BE AS PER REQUIREMENTS OF TOWN ENGINEER. NO TESTS SHALL BE MADE UNTIL TWO (2) WEEKS BACKFILLING OF SANITARY SEWERS OR LONGER IF CONDITIONS, IN THE AFTER OPINION OF THE TOWN ENGINEER, WARRANT IT.
7. THE SANITARY SEWER MAIN INSTALLATION SHALL BE INSPECTED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK AND SHALL BE CERTIFIED TO THE MUNICIPALITY. BILLING INSPECTOR THAT THE IMPROVEMENTS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DESIGN PLANS AND CODE REQUIREMENTS.
 8. IF GROUNDWATER IS ENCOUNTERED DURING TRENCH EXCAVATION, THE CONTRACTOR SHALL DEWATER THE TRENCH PRIOR TO INSTALLATION. ALL DEWATERING OPERATIONS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
 9. CONTRACTOR TO VERIFY INVERT ELEVATIONS OF EXISTING SEWER MAIN PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 10. CONTRACTOR SHALL CALL THE MUNICIPALITY SEWER DEPARTMENT AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF SEWERS.
 11. CONTRACTORS SHALL CALL UNDERGROUND MARKOUT AT 1-800-245-2828 AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF SEWERS FOR COMPLETE UTILITY MARKOUT.



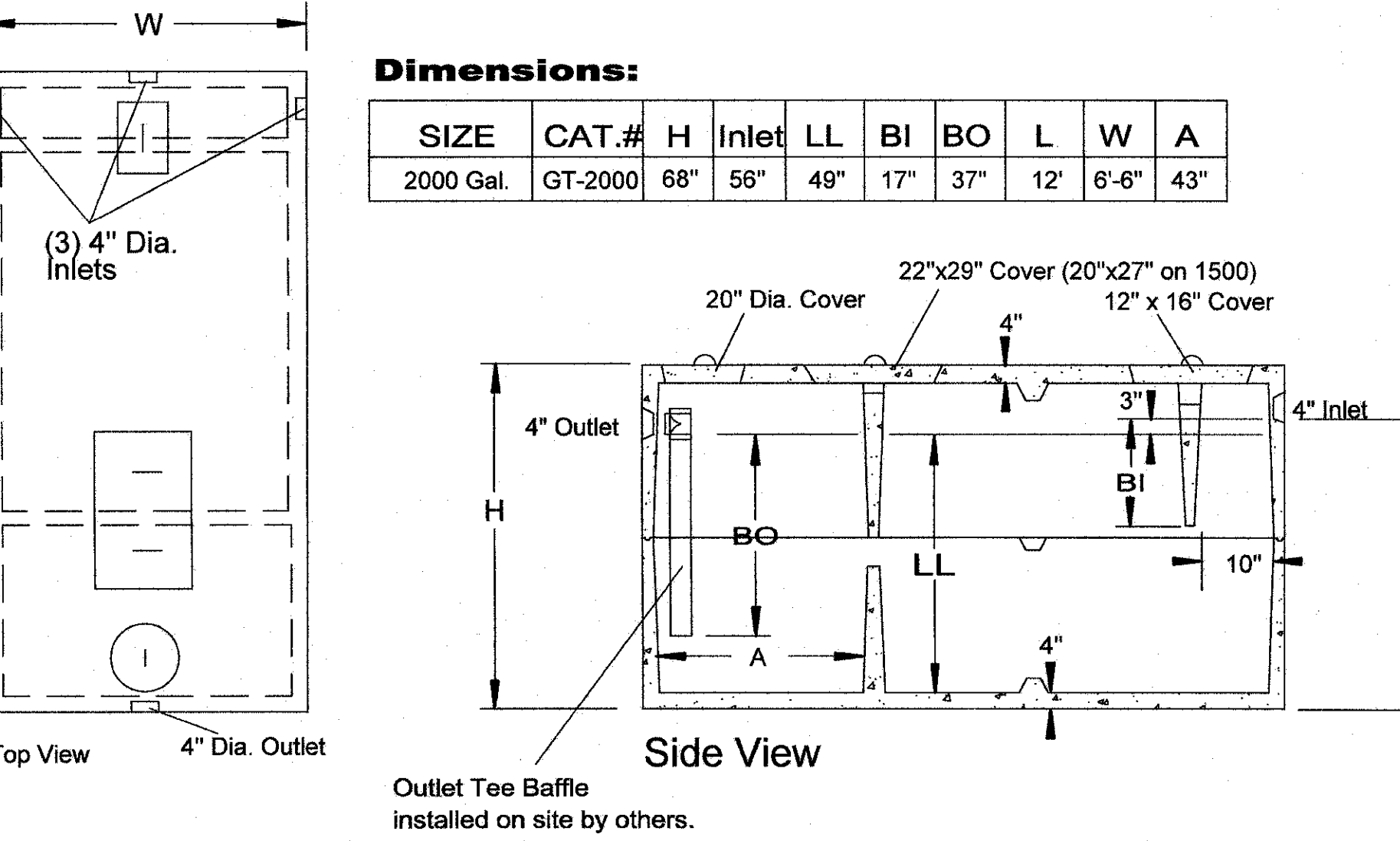
SANITARY SEWER CLEANOUT INLINE



CLEAN-OUT PROTECTION BOX

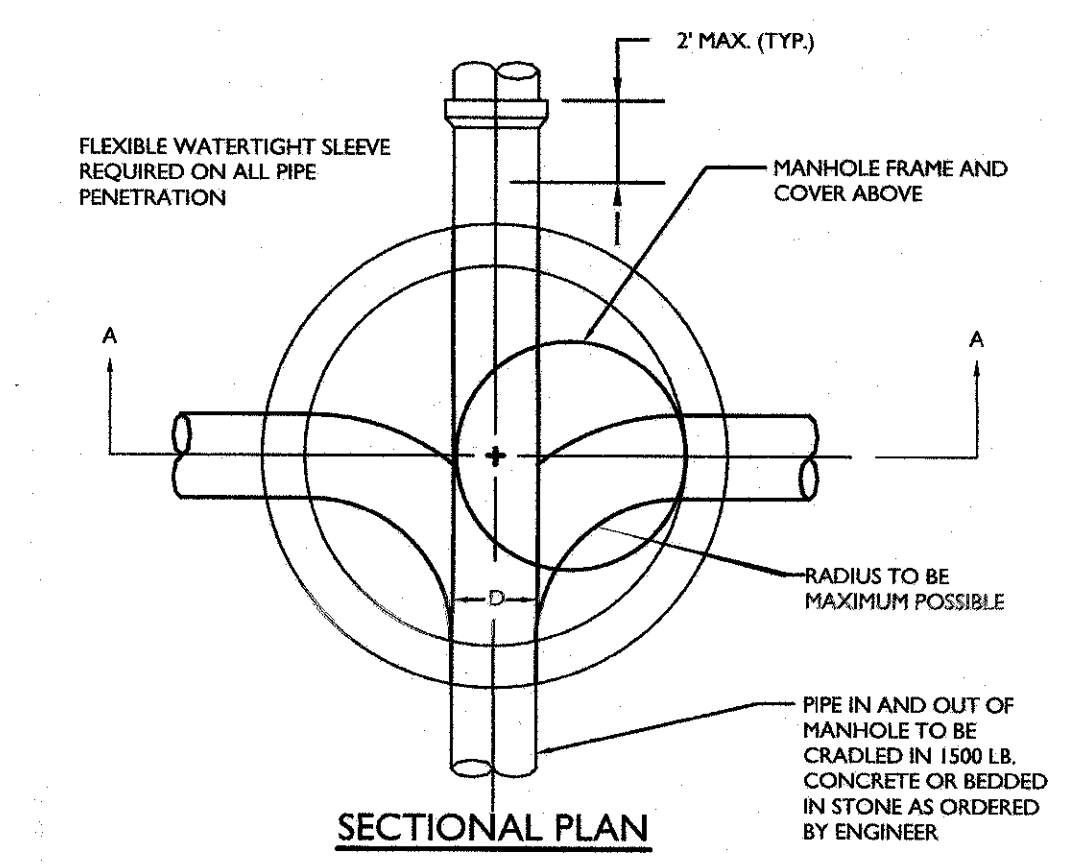


SANITARY SEWER TRENCH & PIPE BEDDING DETAIL

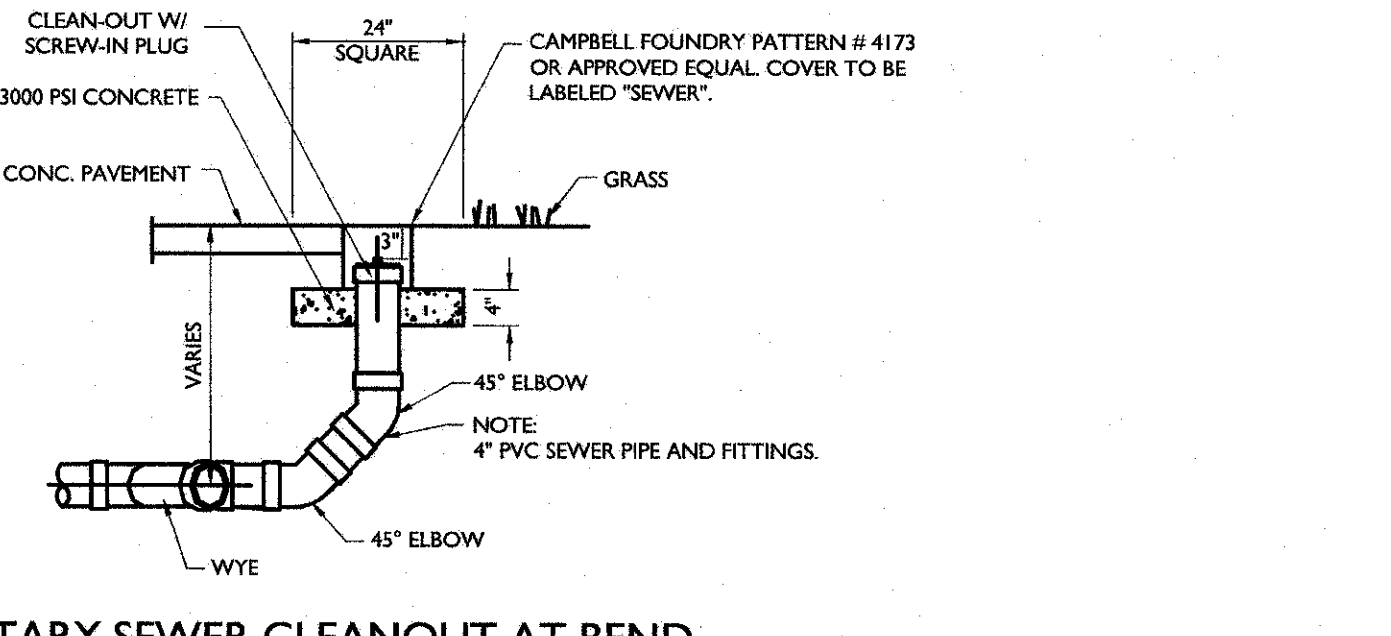


SPECIFICATIONS		PRECAST GREASE TRAPS 1500 TO 3000 GALLONS	
Concrete Min. Strength: 4,000 psi at 28 days		Woodard's Concrete Products, Inc. 629 Lybolt Road, Bullville, NY 10915 (845) 361-3471 / Fax 361-1050	
Reinforcement: #3 Rebar, 6x6x10/10 WWM			
Air Entrainment: 6%			
Construction Joint: Butyl Rubber Sealant			
Pipe Connection: Polylok Seal (patented)			
Load Rating: 300 psf			
		Page 8C 7/18/14	

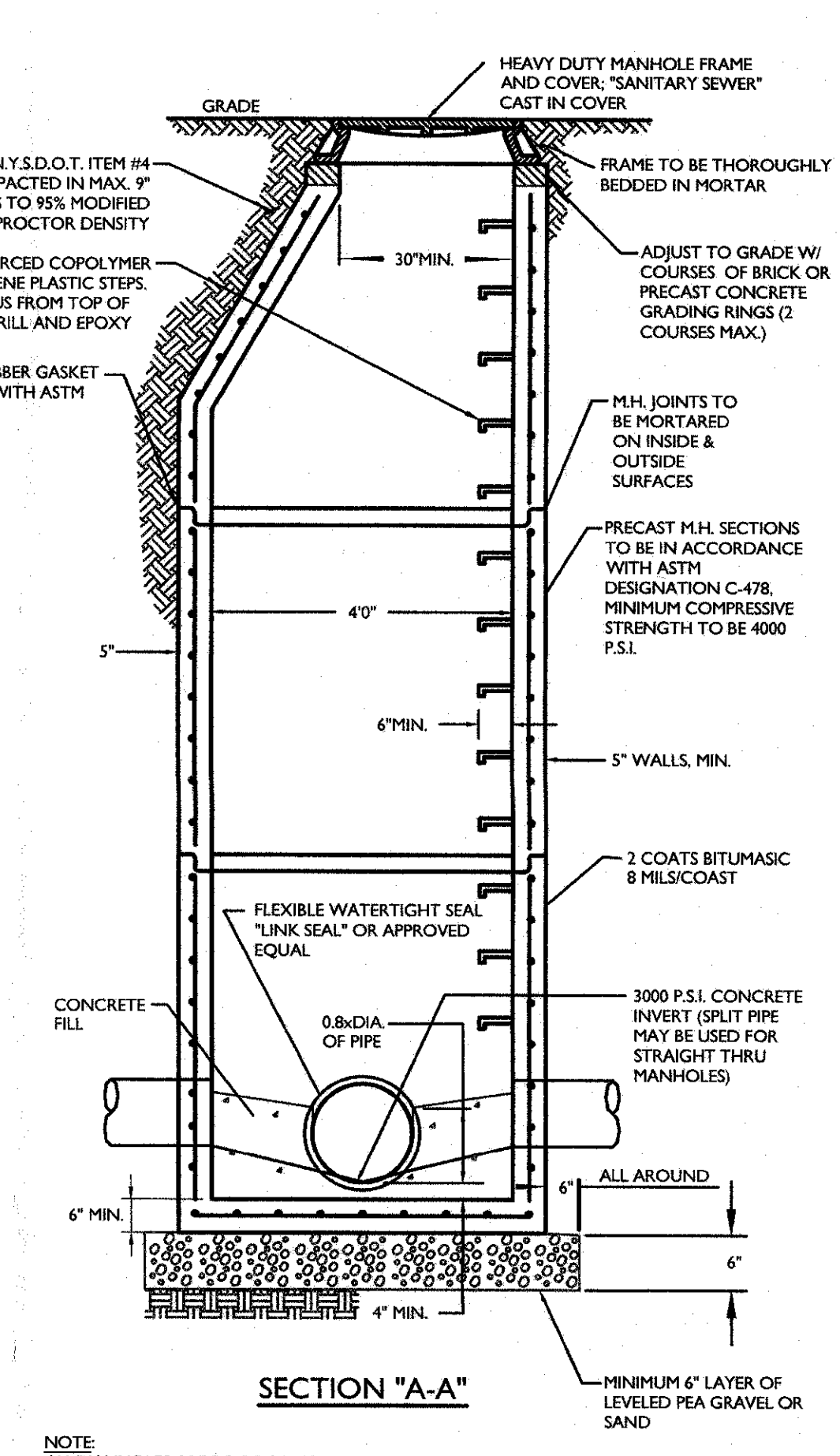
2,000 GALLON GREASE TRAP (F.O.G. INTERCEPTOR)
N.T.S.



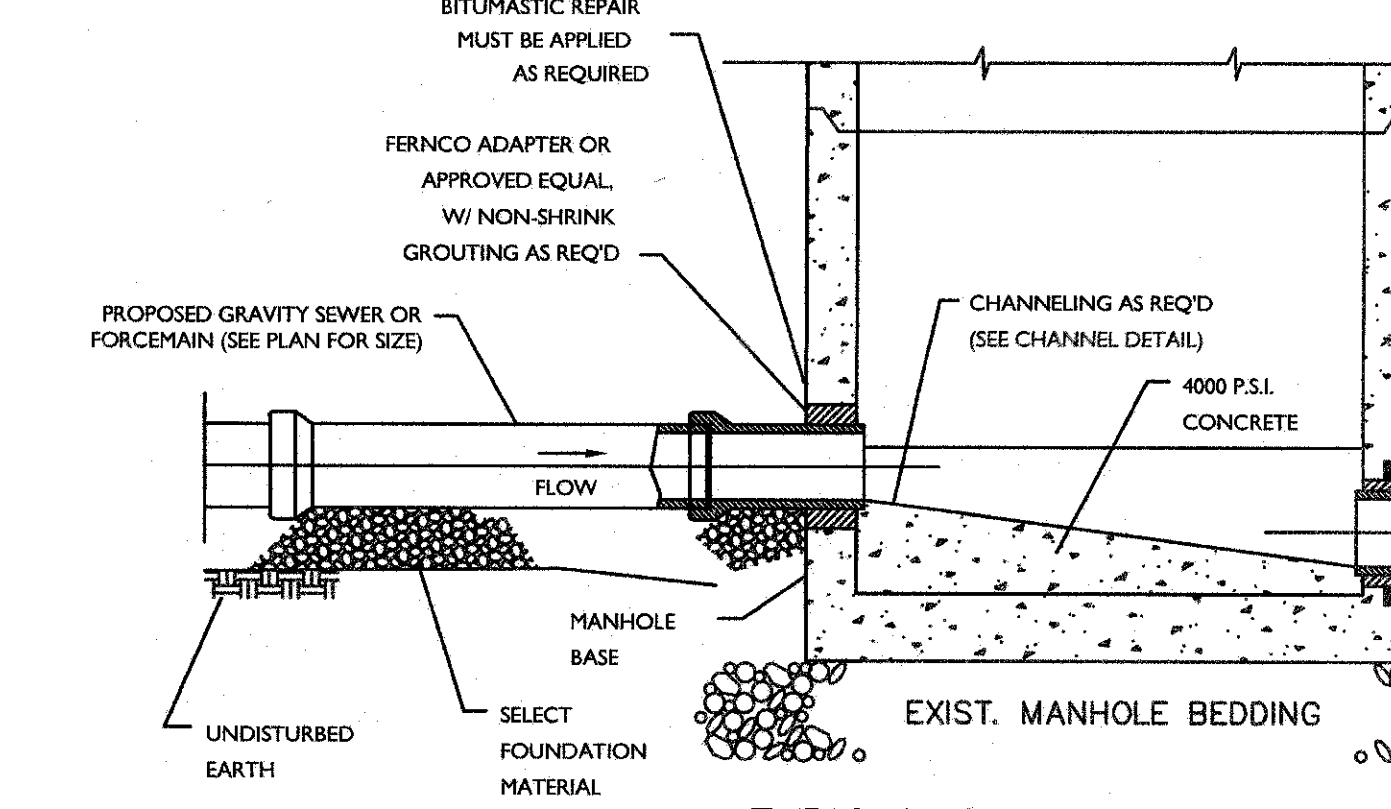
SECTIONAL PLAN



SANITARY SEWER CLEANOUT AT BEND

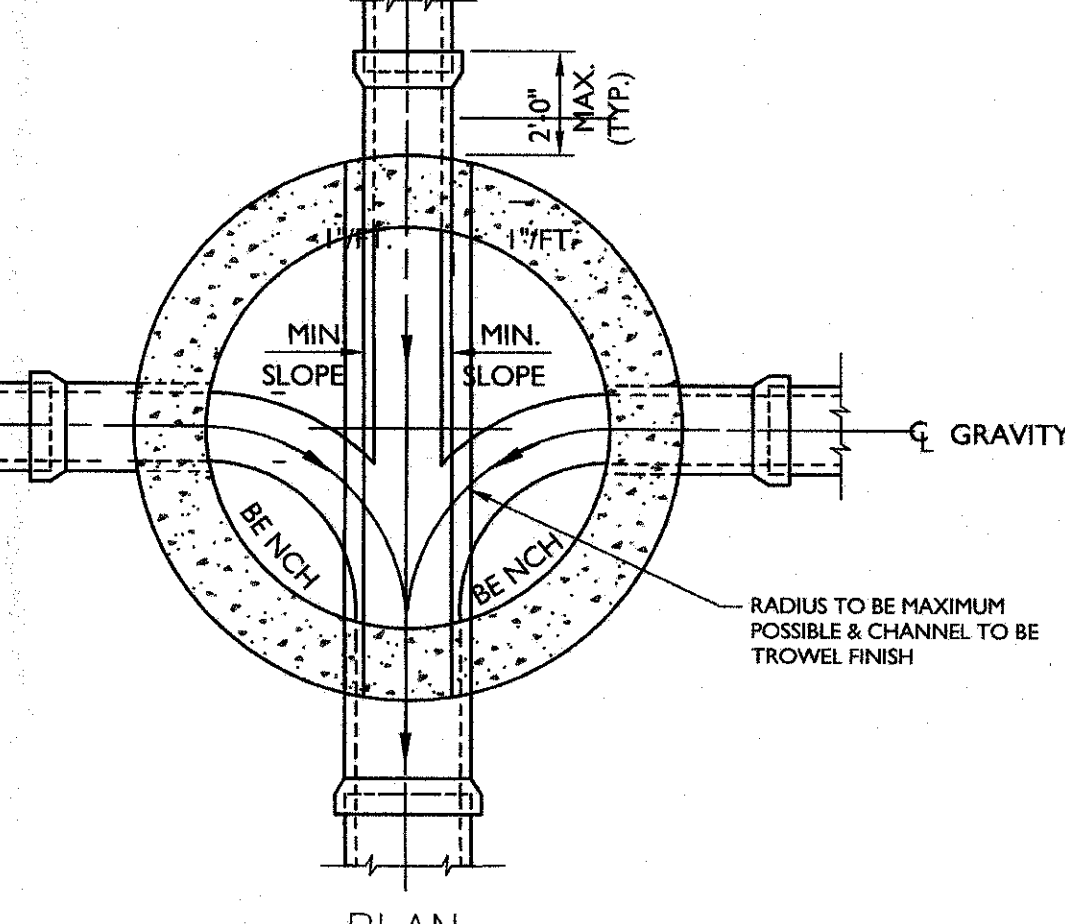


PRECAST STANDARD SEWER MANHOLE DETAIL



TYPICAL SECTION

- CONSTRUCTION NOTES:**
1. GRAVITY SEWER AND/OR FORCEMAINS SHALL ENTER A MANHOLE NO HIGHER THAN TWO (2) FEET ABOVE THE FLOW LINE OF THE RECEIVING MANHOLE. THE FOLLOWING SHALL BE ADHERED TO DURING CONSTRUCTION:
 A) THE DISCHARGE SHOULD BE TO THE BOTTOM OF THE MANHOLE, IN LINE WITH THE FLOW IF POSSIBLE.
 B) WHERE PIPING IS INSTALLED TO BRING THE DISCHARGE TO THE BOTTOM OF THE MANHOLE, IT SHOULD BE ADEQUATELY BRACED TO PREVENT MOVEMENT, AND VENTED ON THE TOP. ACCESS SHOULD BE PROVIDED TO THE FORCE MAIN FOR CLEANING PURPOSES.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OPERATION OF THE EXISTING SEWERS CONNECTED TO THE EXISTING MANHOLE. AT NO TIME SHALL THE CONSTRUCTION OF THE NEW SEWER MAIN IMPEDRE THE OPERATION OF THE EXISTING SANITARY SEWERS.
 3. WHERE NEW PIPE IS TO BE CONNECTED INTO AN EXISTING MANHOLE, THE CONTRACTOR SHALL CORE DRILL ALL HOLES INTO MANHOLE AND SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY FOR CHANNEL AND BENCH RECONSTRUCTION TO CHANNEL FLOW INTO EXISTING SEWER.
 PIPE SHALL BE SEALED USING FERROCE MANHOLE ADAPTERS OR EQUAL, AND NON-SHRIK GROUT.
 EXISTING BENCH SHALL BE CHIPPED AND CUT AWAY TO ALLOW FOR NEW CHANNEL TO BE CONSTRUCTED AND TO PROVIDE A GOOD, SOUND SURFACE FOR BONDING WITH NEW CONCRETE CHANNEL AND BENCH.
 ALL LOOSE CONCRETE, RUST OF REINFORCING RODS, AND OTHER FOREIGN MATERIALS SHALL BE REMOVED AND THE CAVITY CLEANED WITH WATER OR AIR UNDER PRESSURE, AS NECESSARY. APPLY EPOXY BONDING AGENT PRIOR TO POURING CONCRETE.
 4. ANY DAMAGE TO THE EXISTING MANHOLE CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
 5. CONNECTION TO EXISTING MANHOLES SHALL BE DONE WITH A CORE DRILL.



PLAN

SEWER CONNECTION TO EXISTING MANHOLE DETAIL
N.T.S.

SEWER CONNECTION TO EXISTING MANHOLE DETAIL

NOT FOR ORANGE COUNTY DEPARTMENT OF HEALTH REVIEW

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REV	DATE	DESCRIPTION

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ANDREW B. FETHERSTON
NEW YORK LICENSED PROFESSIONAL
ENGINEER - LICENSE NUMBER: 07555-1

BJ'S WHOLESALE CLUB
FOR
GDPBJ, LLC

SECTION 97
BLOCK 2
LOTS 27.32, 44, 45 & 46.2

TOWN OF NEWBURGH
ORANGE COUNTY
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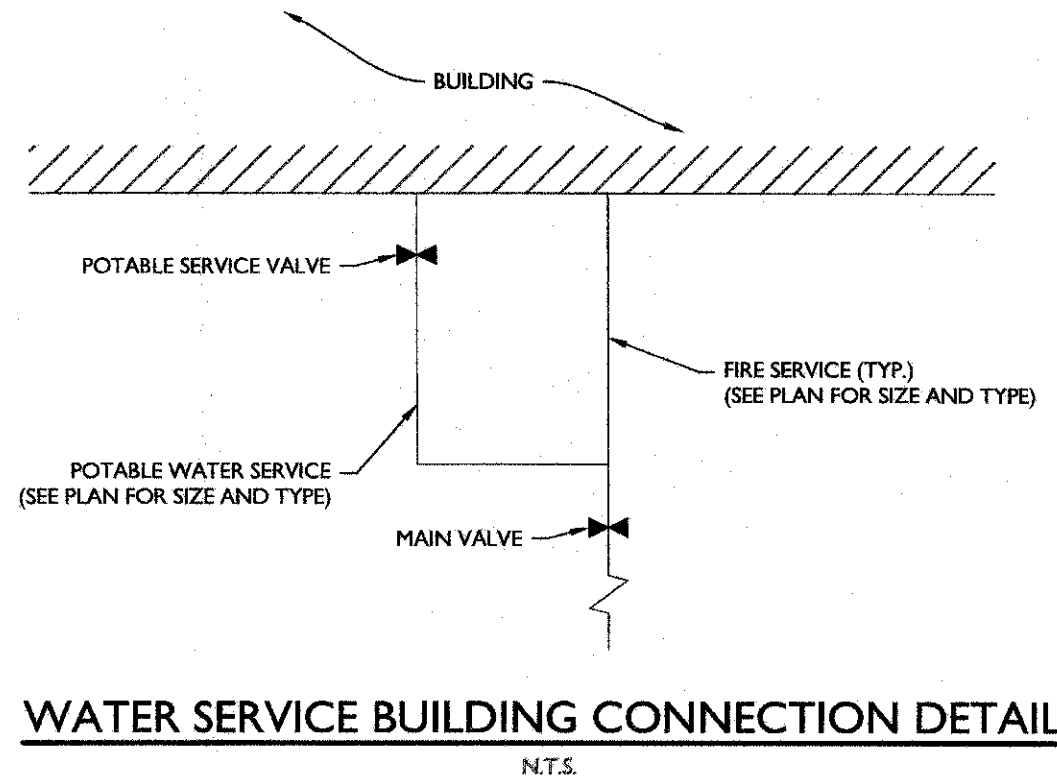
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SCALE	DATE	DRAWN BY	CHECKED BY
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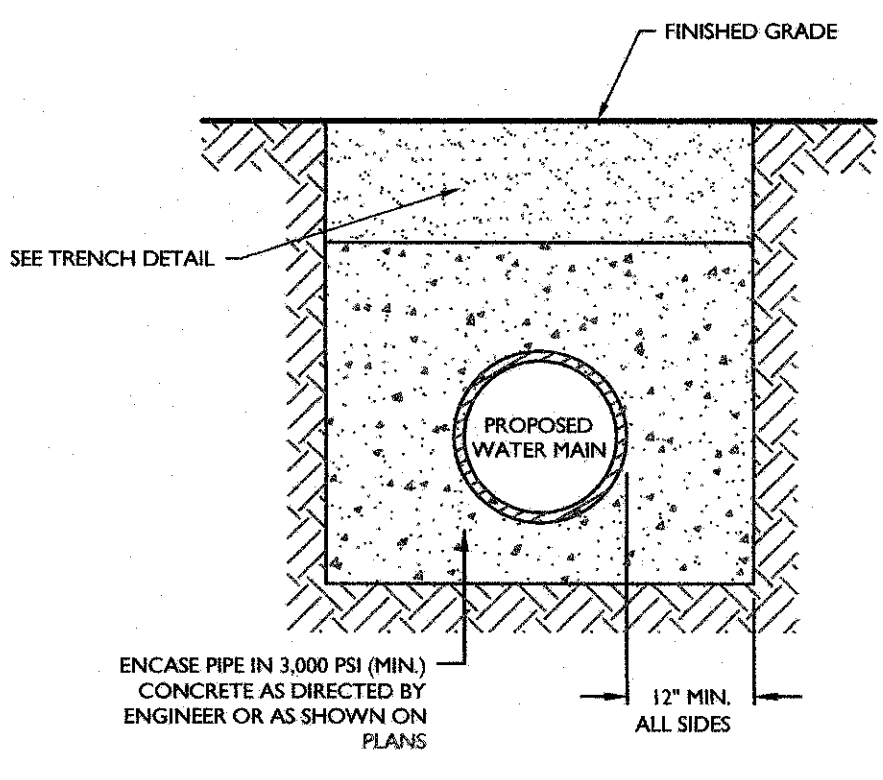
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180047A	C-07L5

SHEET TITLE
CONSTRUCTION DETAILS

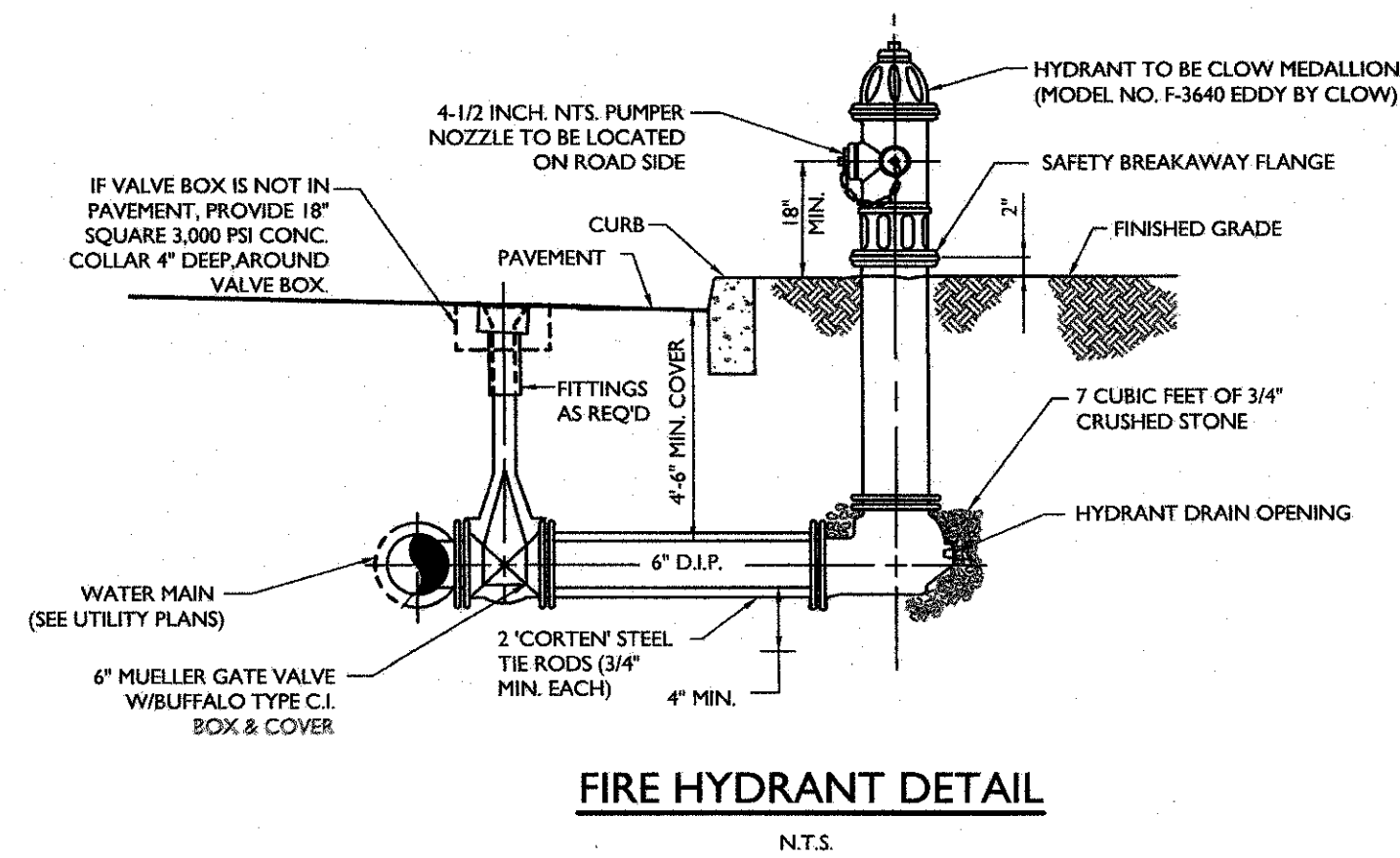
SHEET NUMBER	TOTAL SHEETS
12	of 15



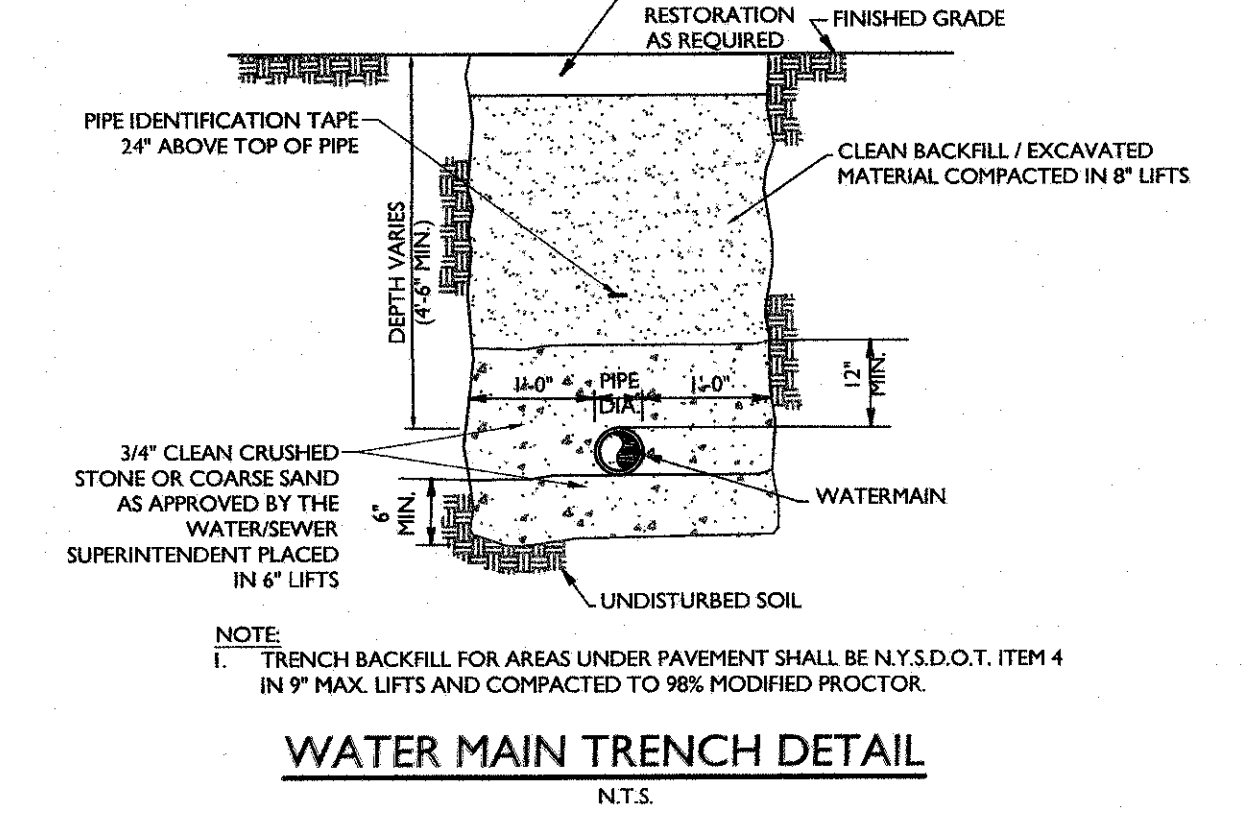
WATER SERVICE BUILDING CONNECTION DETAIL
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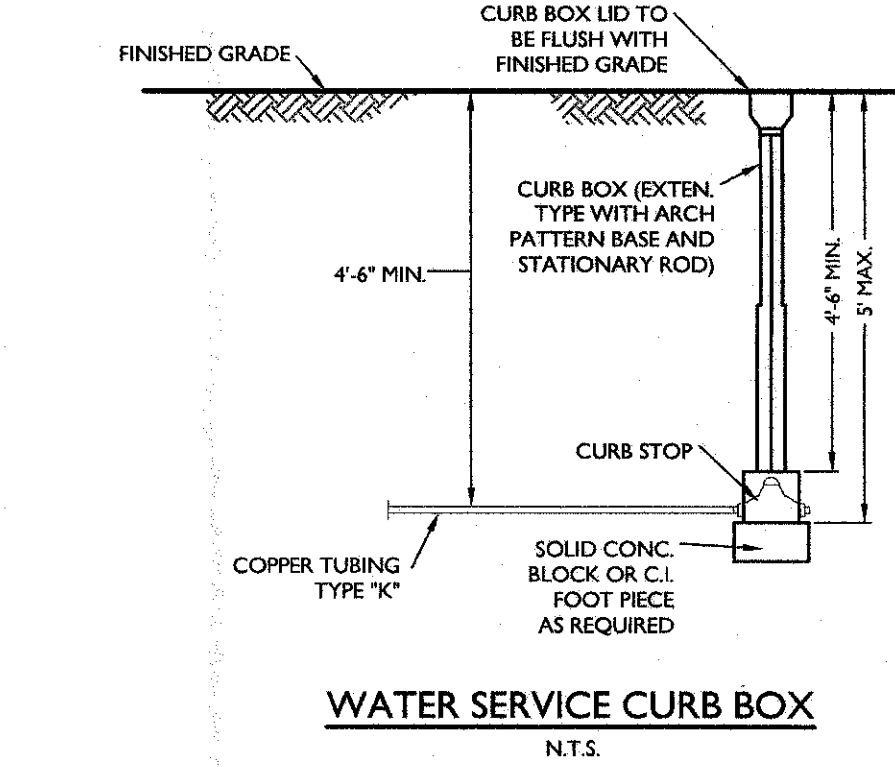
WATER MAIN CONCRETE ENCASUREMENT DETAIL
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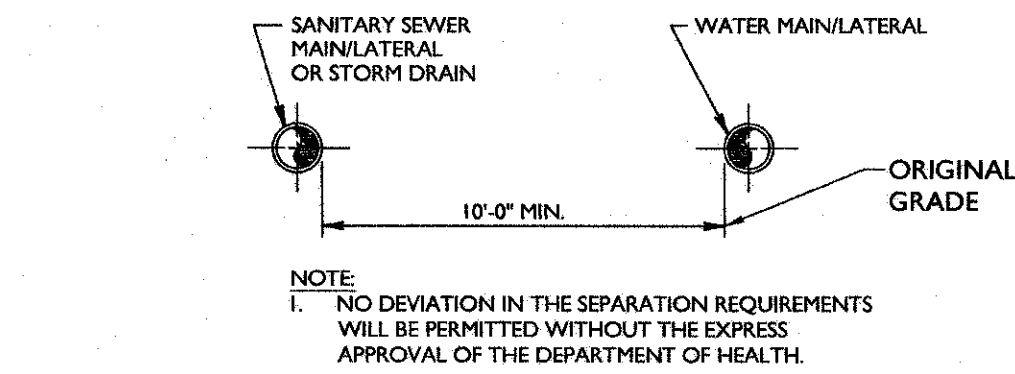
FIRE HYDRANT DETAIL
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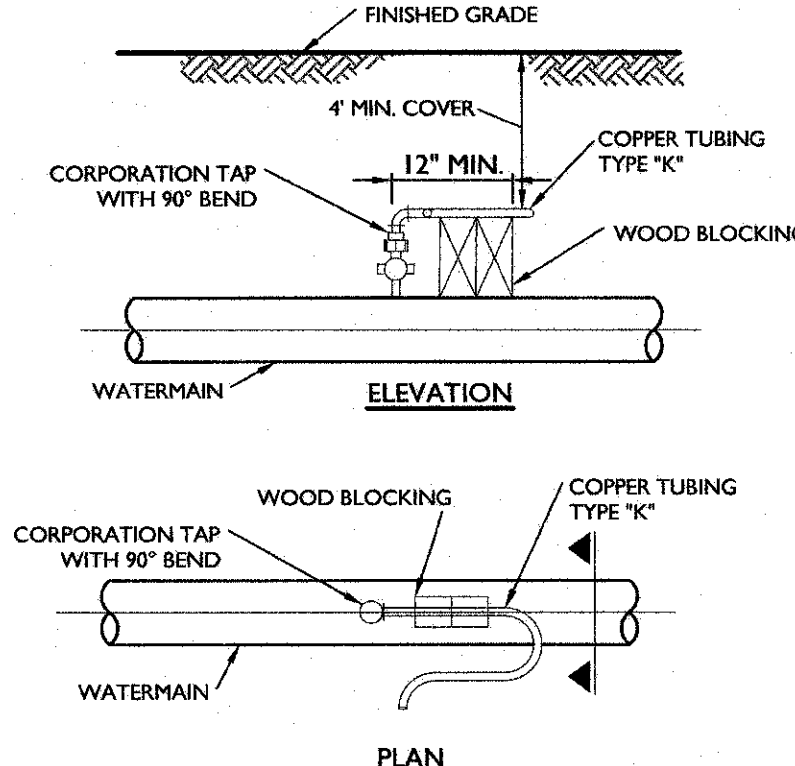
WATER MAIN TRENCH DETAIL
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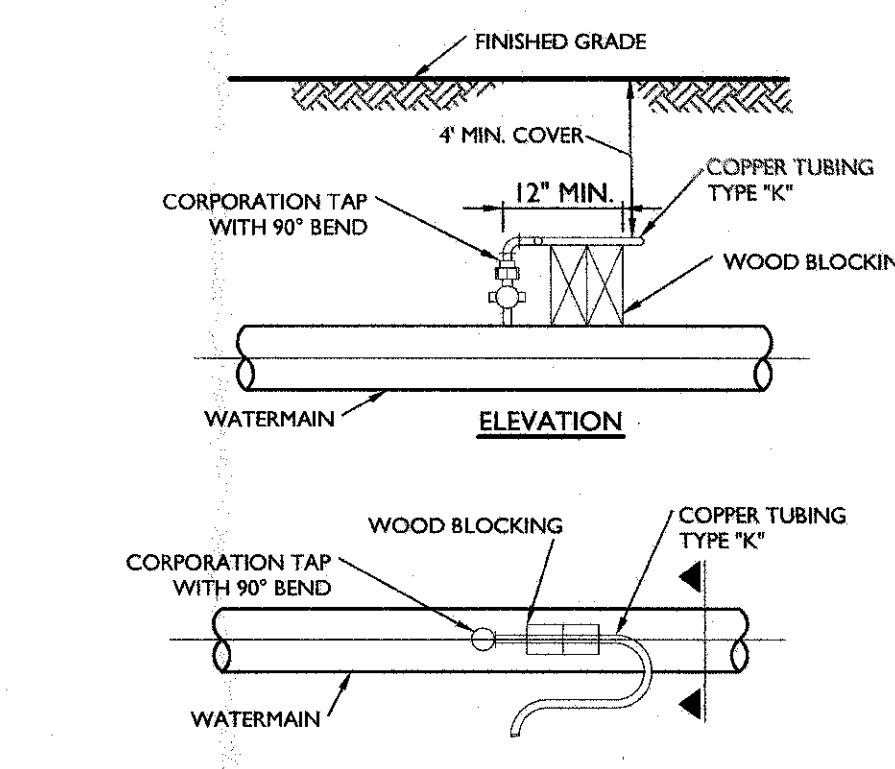
WATER SERVICE CURB BOX
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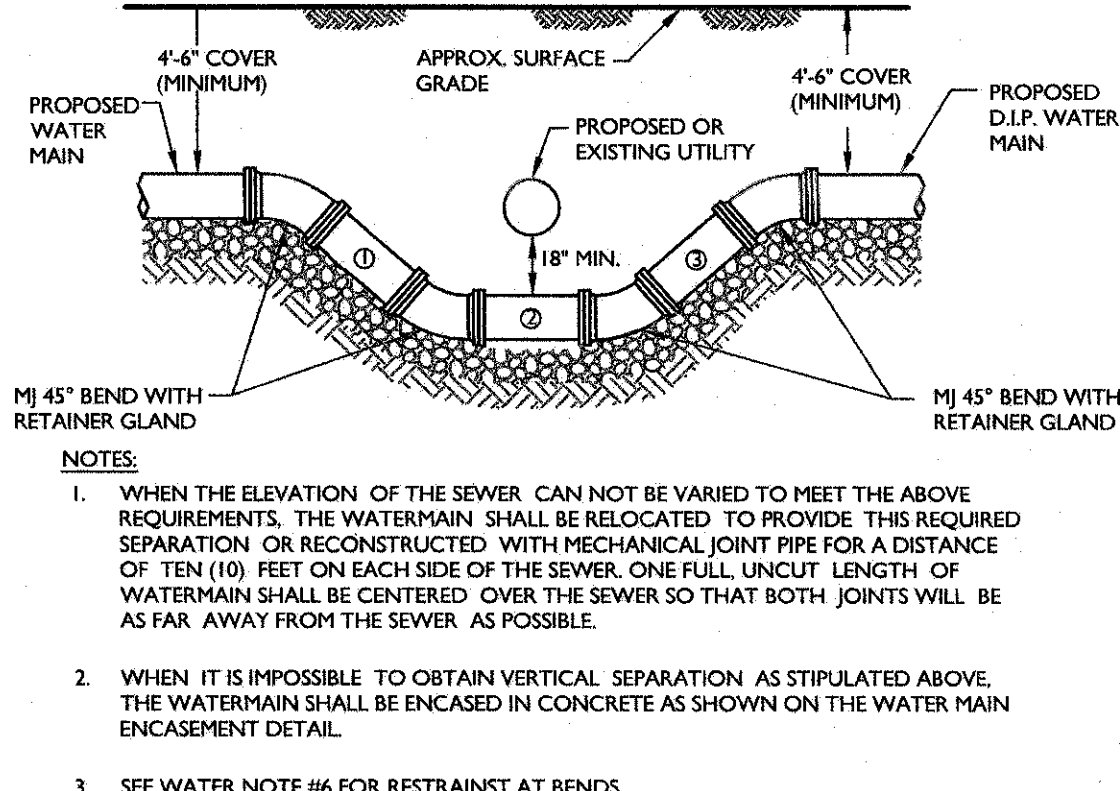
SANITARY/STORM SEWER-WATER SERVICE SEPARATION DETAIL
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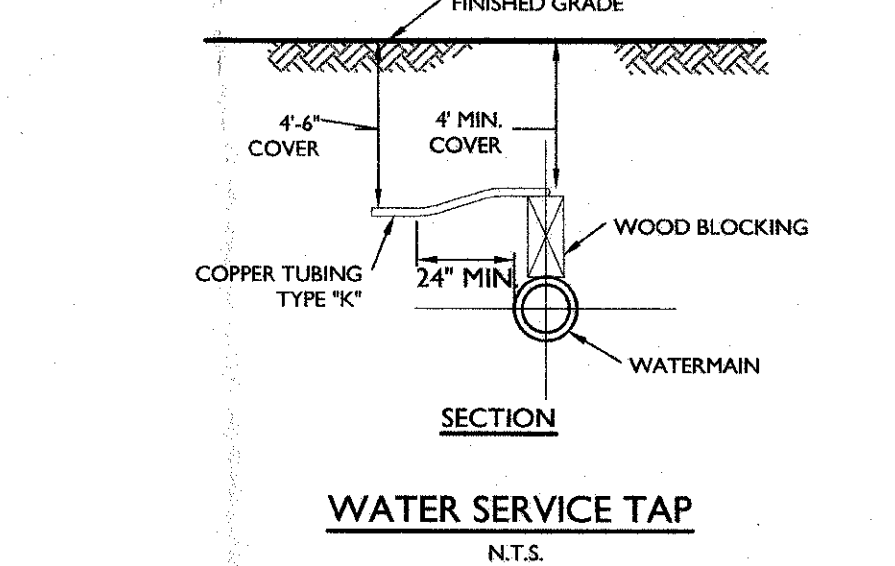
WATER SERVICE TAP
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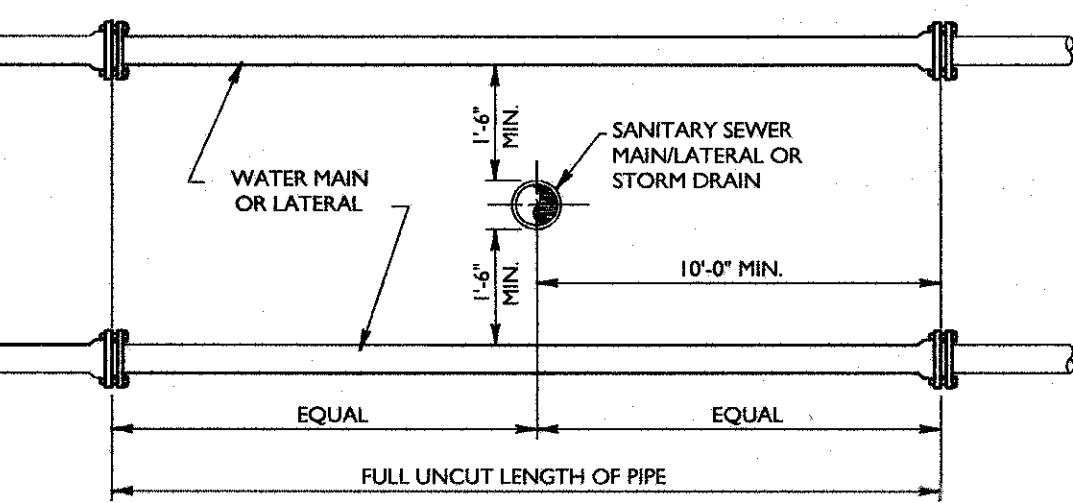
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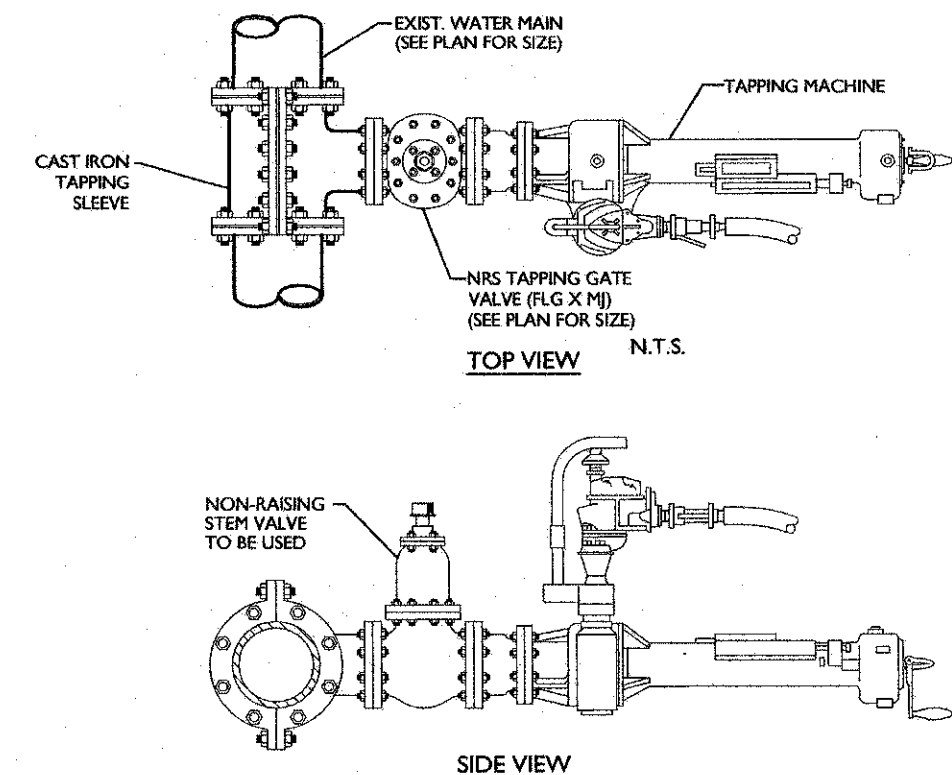
UTILITY CROSSING DETAIL
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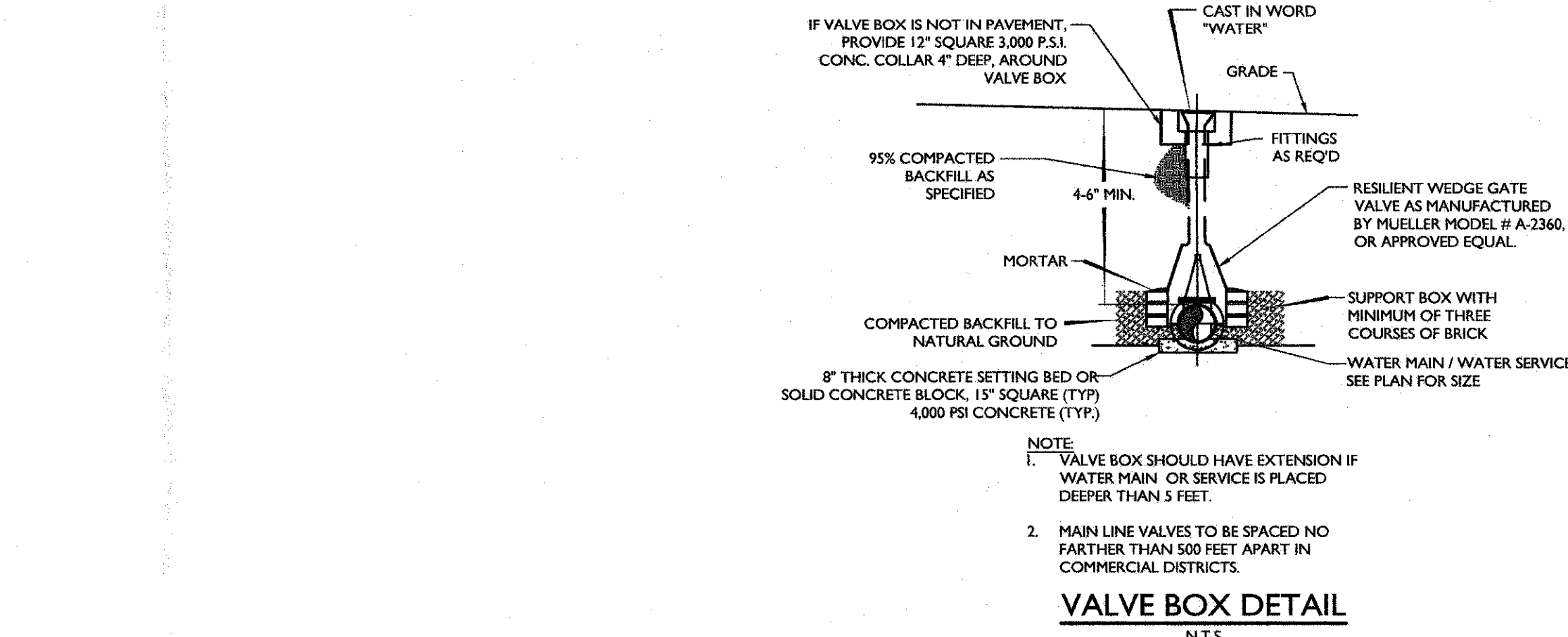
WATER SERVICE TAP
N.T.S.



VERTICAL SEPARATION
N.T.S.



WET TAP DETAIL
N.T.S.



VALVE BOX DETAIL
N.T.S.

PIPE SIZE IN INCHES	90° TEE OR DEAD END PLUG	45°	22 1/2°
4	30'	10'	5'
6	40'	10'	5'
8	50'	15'	5'
10	60'	20'	5'
12	70'	20'	5'
14	80'	25'	5'
16	80'	25'	5'

NOTES:

- LENGTH OF PIPE TO BE RESTRAINED IS FOR EACH SIDE OF BEND
- USE OF MECHANICAL JOINT RETAINER GLANDS SHALL PROVIDE A THRUST RESTRAINT SYSTEM, NO THRUST BLOCKS SHALL BE USED.
- LENGTHS ARE BASED ON THE FOLLOWING CRITERIA: 150 PSI MAXIMUM PRESSURE AND 3/4" MIN. COVER. TABLE FOR USE WITH CU-DIP ONLY. IF TEST CONDITIONS ARE MORE SEVERE OR LARGER PIPES ARE PROPOSED, THEN SPECIAL COMPUTATIONS MUST BE PROVIDED BY LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK.

JOINT RESTRAINT SCHEDULE

WATER NOTES:

- ALL METHODS, MATERIALS, FITTINGS, DEVICES, DIMENSIONAL REQUIREMENTS AND PROCEDURES NECESSARY TO COMPLETE THE WORK SHOWN HEREON SHALL MEET THE APPROPRIATE CURRENT AWWA SPECIFICATIONS IN EFFECT AS WELL AS ALL REQUIREMENTS DERIVED APPLICABLE BY THE MUNICIPALITY OR ANY OTHER GOVERNMENTAL BODY HAVING JURISDICTION OVER SAID WORK.
- ALL WATER MAIN PIPE SHALL BE AWWA C115 (A.1), S1-03 THICKNESS CLASS FIFTY-TWO (52) CEMENT LINED DUCTILE IRON PUSH-ON (RUBBER GASKET) TYPE AND INSTALLED WITH TWO (2) BRONZE WEDGES PER JOINT. JOINT INSTALLATION SHALL BE TYPE 2" AS DESCRIBED IN THE LATEST REVISION OF AWWA C600. MECHANICAL JOINTS SHALL HAVE RETAINER GLANDS.
- ALL PIPE FITTINGS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE AWWA SPECIFICATION C115 (A.2), S3-00.
- ALL GATE VALVES SHALL BE "MULLER" OR APPROVED EQUAL. RESILIENT-SEATED GATE VALVES WITH MECHANICAL JOINT CONNECTIONS. OPENING SHALL BE LEFT (CCV) AND OPERATION SHALL BE BY 2" SQUARE WRENCH NUT. MINIMUM WORKING PRESSURE SHALL BE 250 PSI. GATE VALVES ARE TO BE IN ACCORDANCE WITH LATEST REVISION OF AWWA SPECIFICATION C399.
- ALL VALVE BOXES SHALL BE TWO-PIECE SLIDING BUFFALO TYPE SET ON CONCRETE OR BLOCK POSITIONED PERPENDICULAR TO THE PIPE AND ON COMPACTED BACKFILL.
- ALL CHANGES IN PIPE LINE DIRECTION, BOTH HORIZONTAL AND VERTICAL SHALL BE TIE-RODDED AS DIRECTED BY THE ENGINEER.
- FLUSH OUT ALL WATER MAINS AND APPURTENANCES AS DIRECTED BY THE MUNICIPALITY UNTIL THE WATER RUNS CLEAN AND FREE OF RUST AND DIRT. PRESSURIZE ALL LINES AND APPURTENANCES FOR FORTY EIGHT (48) HOURS OR AS DIRECTED BY THE MUNICIPALITY, TO REVEAL ANY LEAKS OR BROKEN PIPE. THIS SHALL BE DONE EITHER AS A TOTAL PROJECT OR BETWEEN VALVED SECTIONS AS DIRECTED BY THE TOWN. IF PRESSURE TESTING REVEALS ANY LEAKS OR DIFFICULTIES THE CONTRACTOR SHALL PROMPTLY UNCOVER THE LEAK OR BROKEN PIPE AND IMMEDIATELY REPAIR AND RETEST SAME. THIS SHALL BE REPEATED AS MANY TIMES AS MAY BE REQUIRED TO DEMONSTRATE A TIGHT LINE TO THE SATISFACTION OF THE TOWN. THE NEW WATER MAIN AND APPURTENANCES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C-600. RESULTS OF TESTS ARE TO BE SUBMITTED AND ACCEPTED BY THE MUNICIPALITY.
- THE MUNICIPAL ENGINEER MUST BE NOTIFIED FORTY-EIGHT (48) HOURS PRIOR TO PRESSURE TESTING.
- ALL WATER LINES AND APPURTENANCES SHALL BE DISINFECTED TO THE SATISFACTION OF THE MUNICIPALITY, AND IN ACCORDANCE WITH THE STANDARDS OF THE DEPT. OF HEALTH. THIS SHALL ALSO BE DONE IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C651-14 (SECTION 5).
- WATER SERVICE CROSSING SEWER OR STORM SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER OR STORM. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS ABOVE OR BELOW THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER OR STORM AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER MAY BE REQUIRED.
- WATER SERVICE SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER MAIN OR SERVICE.
- WATER TIGHT PLUGS ARE TO BE INSTALLED IN THE ENDS OF PIPES WHEN WORK IS NOT IN PROGRESS.
- LEAKAGE AND HYDROSTATIC PRESSURE TESTING SHALL BE PERFORMED AT 1.5 TIMES THE WORKING PRESSURE OF THE MAIN, BUT IN NO CASE SHALL IT BE LESS THAN 150 PSI.
- THE MAXIMUM DEFLECTION ALLOWED AT PIPE JOINTS SHALL BE LIMITED TO 80% OF THAT ALLOWED BY AWWA OR IN ACCORDANCE WITH THE MUNICIPALITY. FOR AWWA ALLOWABLE JOINT DEFLECTIONS SEE LATEST REVISION OF AWWA SPECIFICATION C600.
- CONSTRUCTION MUST CONFORM TO ALL ORDINANCES.
- CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING WATER AND OTHER UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR TO CALL UNDERGROUND MARK-OUT PRIOR TO COMMENCEMENT OF CONSTRUCTION AT 1-800-967-7962 FOR COMPLETE UTILITIES MARK-OUT.
- CONTRACTOR TO CONTACT EACH MUNICIPALITY'S WATER DEPARTMENT AT LEAST 2 DAYS PRIOR TO CONSTRUCTION.
- ALL IMPROVEMENTS SHALL BE INSPECTED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND CERTIFICATION SHALL BE PROVIDED TO THE MUNICIPALITY THAT THE SUBJECT IMPROVEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS.
- CONTRACTOR TO NOTIFY ENGINEER OF ANY DEVIATION FROM THE HORIZONTAL OR VERTICAL ALIGNMENTS WITH REGARD TO DISTURBING UTILITIES.
- A CERTIFIED AS BUILT MAP OF THE WATER SYSTEM IMPROVEMENTS SHALL BE PROVIDED TO THE MUNICIPALITY'S WATER DEPARTMENT BY A LICENSED DESIGN PROFESSIONAL.

TOWN OF NEWBURGH WATER & SEWER NOTES:

- CONSTRUCTION OF SANITARY SEWER FACILITIES AND CONNECTION TO THE TOWN OF NEWBURGH SANITARY SEWER SYSTEM REQUIRES A PERMIT FROM THE TOWN OF NEWBURGH SEWER DEPARTMENT. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE NYSDEC AND THE TOWN OF NEWBURGH.
- ALL SEWER PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF NEWBURGH SEWER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS AS REQUIRED WITH THE TOWN OF NEWBURGH SEWER DEPARTMENT.
- ALL GRAVITY SANITARY SEWER SERVICE LINES SHALL BE 4 INCHES IN DIAMETER OR LARGER AND SHALL BE SDR-35 PVC PIPE CONFORMING TO ASTM D-3034-R. JOINTS SHALL BE PUSH-ON WITH ELASTOMERIC RING GASKET CONFORMING ASTM D-3212. FITTINGS SHALL BE AS MANUFACTURED BY THE PIPE SUPPLIER OR EQUAL AND SHALL HAVE A BELL AND SPOUT CONFIGURATION COMPATIBLE WITH THE PIPE.
- THE SEWER MAIN SHALL BE TESTED IN ACCORDANCE WITH TOWN OF NEWBURGH REQUIREMENTS. ALL TESTING SHALL BE COORDINATED WITH THE TOWN OF NEWBURGH SEWER DEPARTMENT.
- THE FINAL LAYOUT OF THE PROPOSED WATER AND/OR SEWER CONNECTION, INCLUDING ALL MATERIALS, SIZE AND LOCATION OF SERVICE AND ALL APPURTENANCES, IS SUBJECT TO THE REVIEW AND APPROVAL OF THE TOWN OF NEWBURGH WATER AND/OR SEWER DEPARTMENT. NO PERMITS SHALL BE ISSUED FOR A WATER AND/OR SEWER CONNECTION UNTIL A FINAL LAYOUT IS APPROVED BY THE RESPECTIVE DEPARTMENT.



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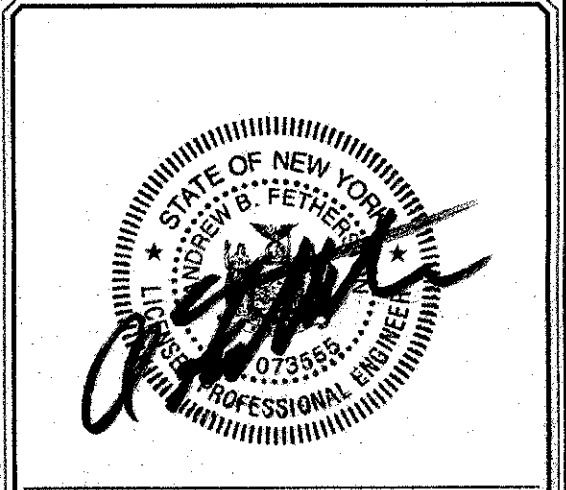
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NO.	REVISION	DATE	DESCRIPTION



ANDREW B. FETHERSTON
NEW YORK LICENSED PROFESSIONAL ENGINEER - LICENSE NUMBER 07355-1

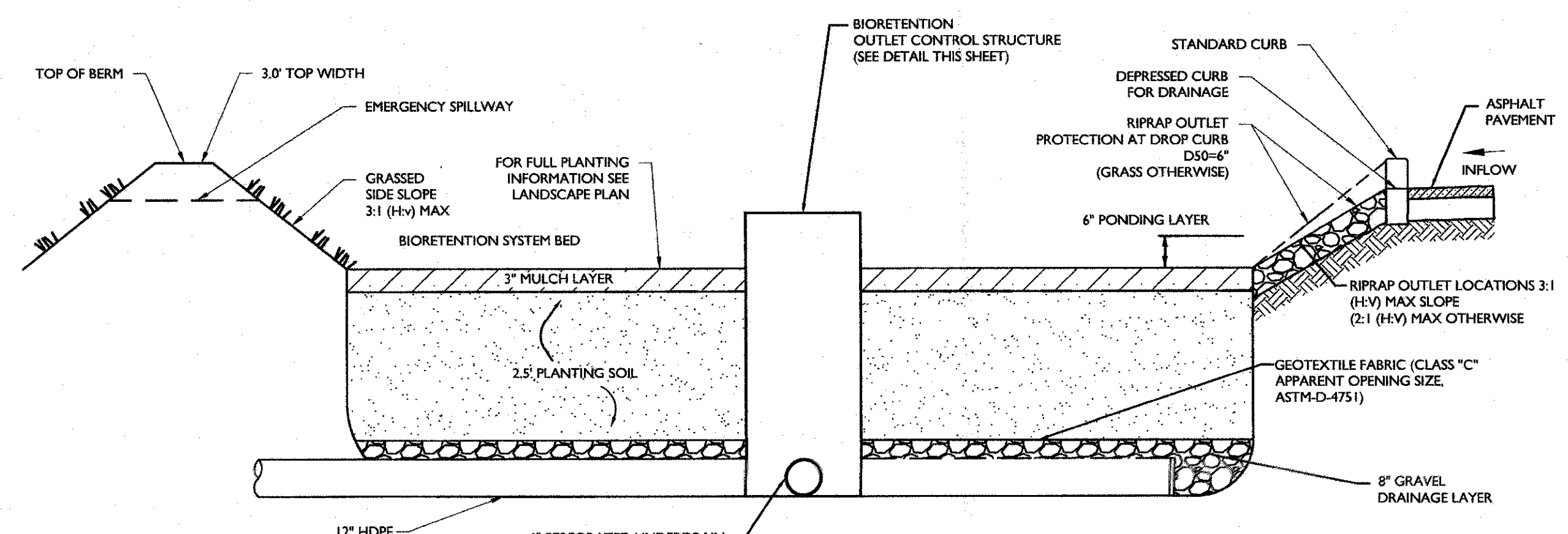
BJ'S WHOLESALE CLUB
FOR
GDPBJ, LLC

SECTION 97
BLOCK 2
LOTS 27, 32, 44, 45 & 46.2
TOWN OF NEWBURGH
ORANGE COUNTY
NEW YORK STATE

NEW Windsor OFFICE
353 Hudson Valley Avenue
Suite 101
New Windsor, NY 12553
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SCALE	DATE	DRAWN BY	CHECKED BY
AS SHOWN	09/26/19	CDR	ARF
PROJECT NUMBER	DRAWING NAME	DRAWING NUMBER	DRAWING DATE
18000416A	C-DT3		

SHEET TITLE: **CONSTRUCTION DETAILS**



- NOTES:**
- SEE PLAN FOR DROP CURB LOCATIONS AND BIORETENTION AREA CONFIGURATION.
 - PLANTING SOIL TO BE IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOUND WITHIN THE PROJECT SWPPP.

BIORETENTION ELEVATIONS

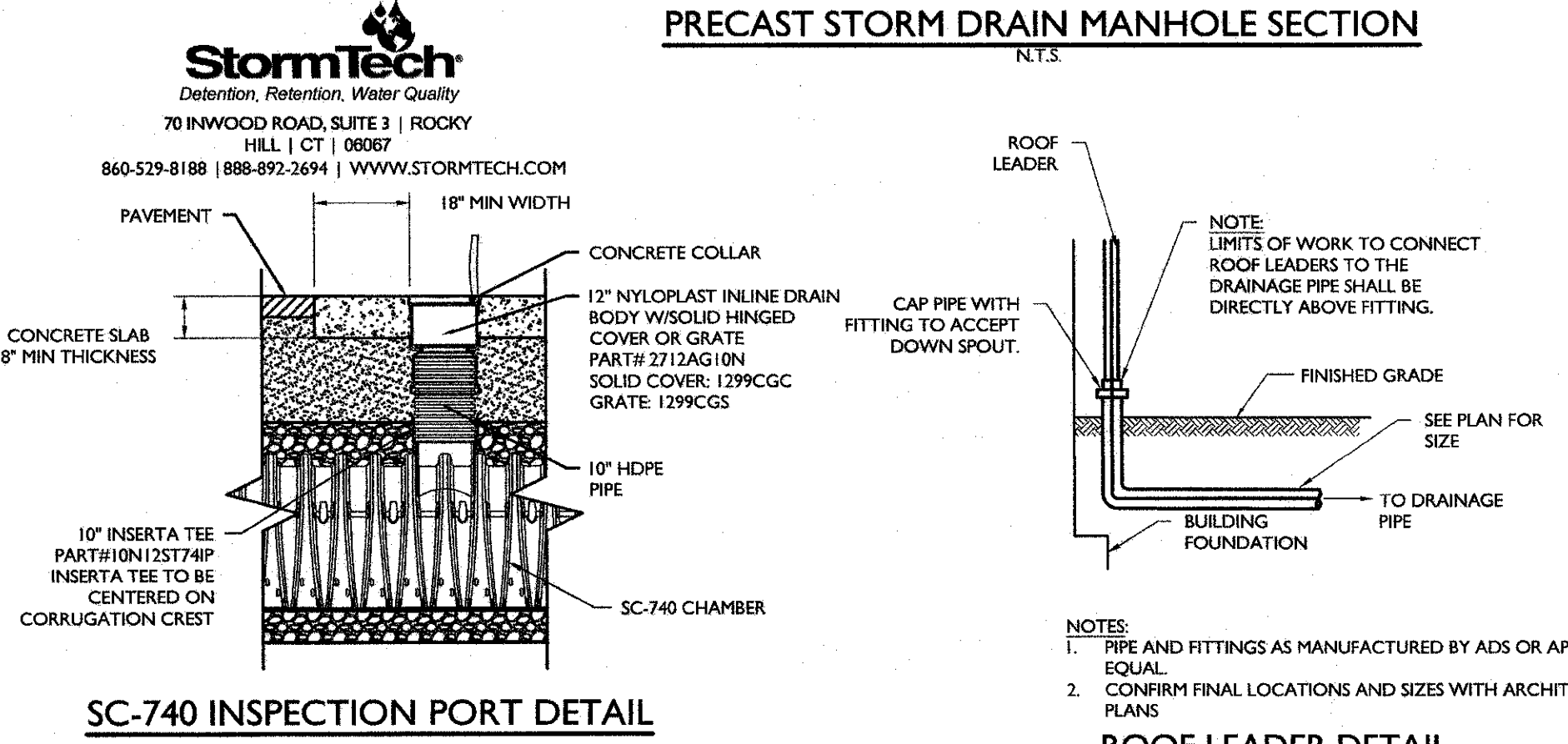
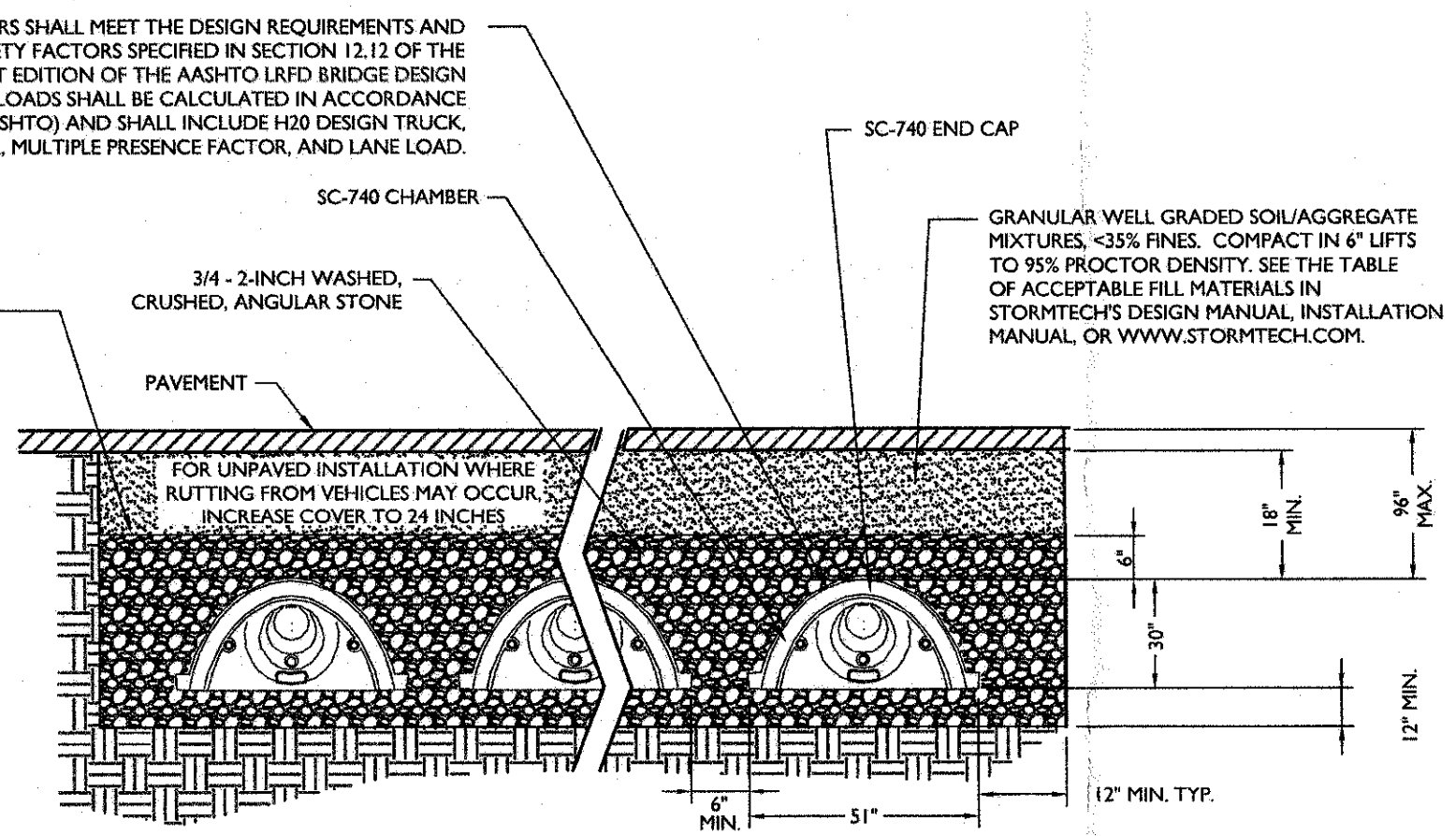
SYSTEM	OUTLET NAME	OUTLET SIZE	BED ELEVATION	100 YR PEAK ELEVATION	TOP OF BERM ELEVATION	EMERGENCY SPILLWAY EL.
BIO-A	OCS A	4"x6"	280.0	282.10	283.10	282.5

PLANTING SOIL NOTE

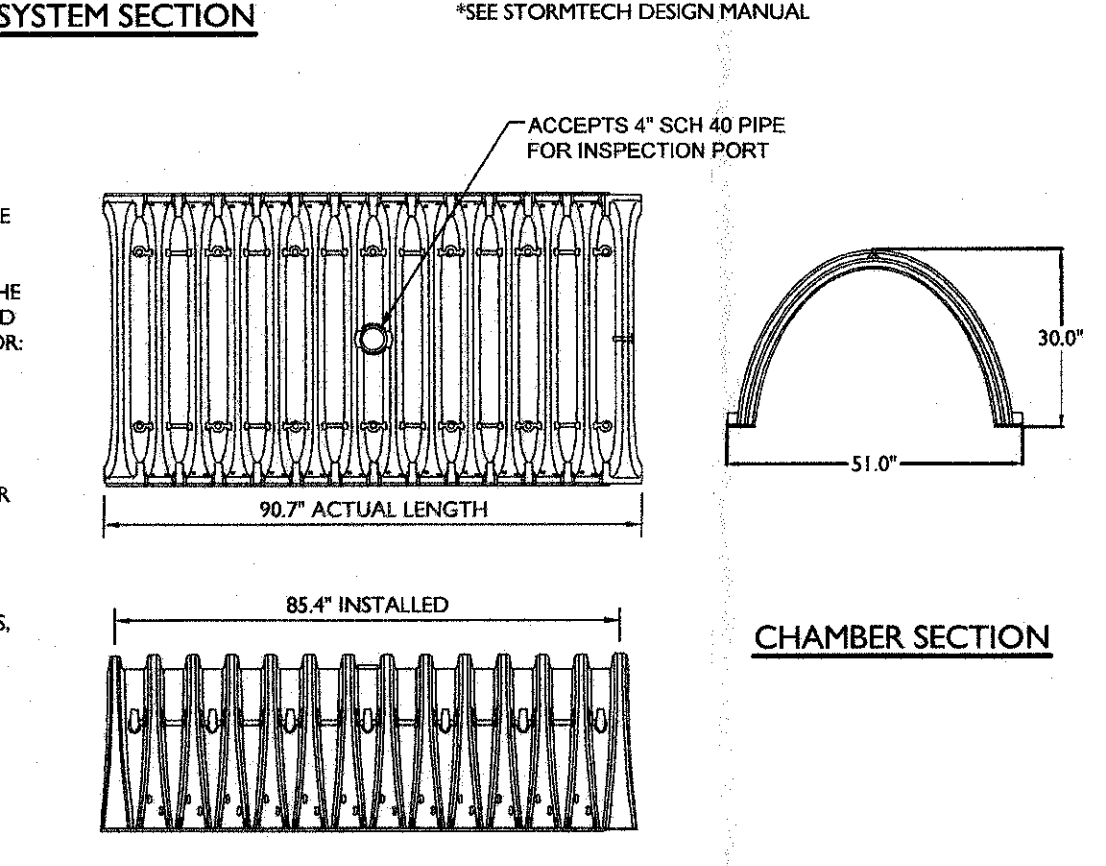
THE PLANTING SOIL SHOULD BE A SANDY LOAM, LOAMY SAND, LOAM (USDA), OR A LOAM/SAND MIX (SHOULD CONTAIN A MINIMUM 35 TO 60% SAND, BY VOLUME). THE CLAY CONTENT FOR THESE SOILS SHOULD BE LESS THAN 25% BY VOLUME. SOILS SHOULD FALL WITHIN THE SM, OR ML CLASSIFICATIONS OF THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS). A PERMEABILITY OF AT LEAST 1.0 FEET PER DAY (0.57HR) IS REQUIRED (A CONSERVATIVE VALUE OF 0.5 FEET PER DAY IS USED FOR DESIGN). THE SOIL SHOULD BE FREE OF STONES, STUMPS, ROOTS, OR OTHER WOODY MATERIAL COVER 1" IN DIAMETER, AND BRUSH OR SEED FROM NOXIOUS WEEDS. PLACEMENT OF THE PLANTING SOIL SHOULD BE IN LIFTS OF 12" TO 18", LOOSELY COMPACTED (TAMPED LIGHTLY WITH A DOZER OR BACKHOE BUCKET). THE SPECIFIC CHARACTERISTICS ARE AS FOLLOWS:

PARAMETER	VALUE
PH RANGE	5.2 TO 7.00
ORGANIC MATTER	1.5 TO 4.0%
MAGNESIUM	35 LBS. PER ACRE, MINIMUM
PHOSPHORUS (P ₂ O ₅)	75 LBS. PER ACRE, MINIMUM
POTASSIUM (K ₂ O)	85 LBS. PER ACRE, MINIMUM
SOLUBLE SALTS	500 ppm
CLAY	10 TO 25%
SILT	30 TO 55%
SAND	35 TO 60%

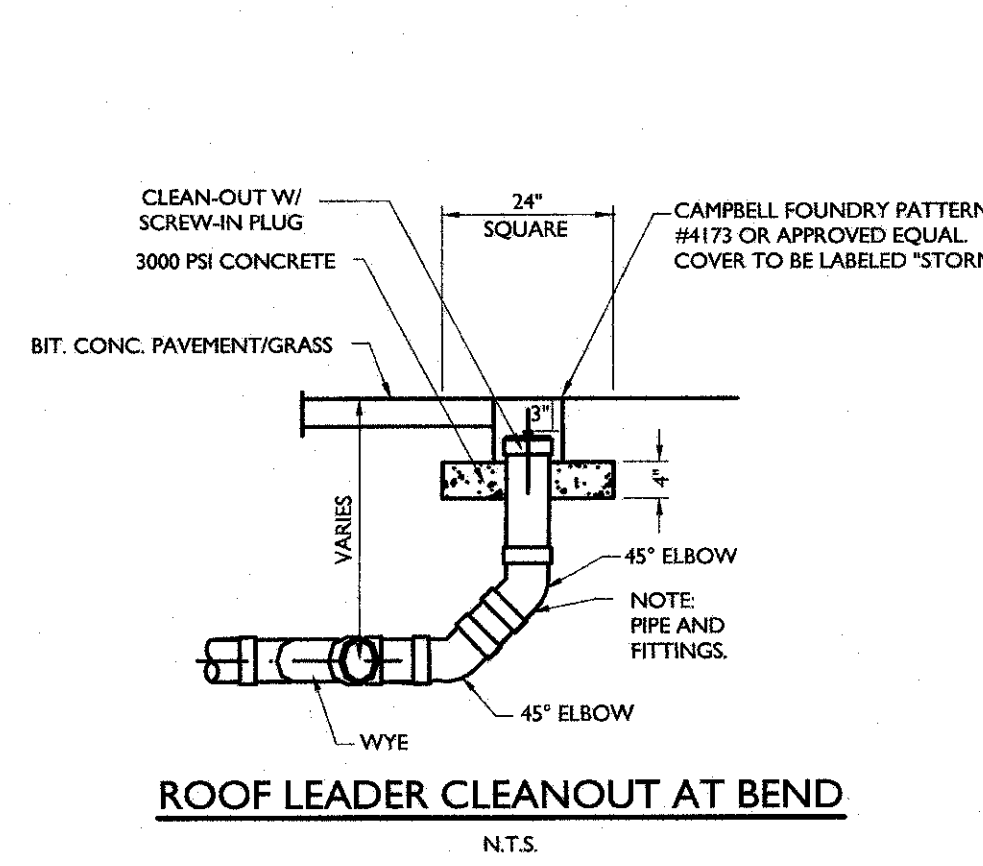
BIORETENTION SYSTEM CROSS SECTION



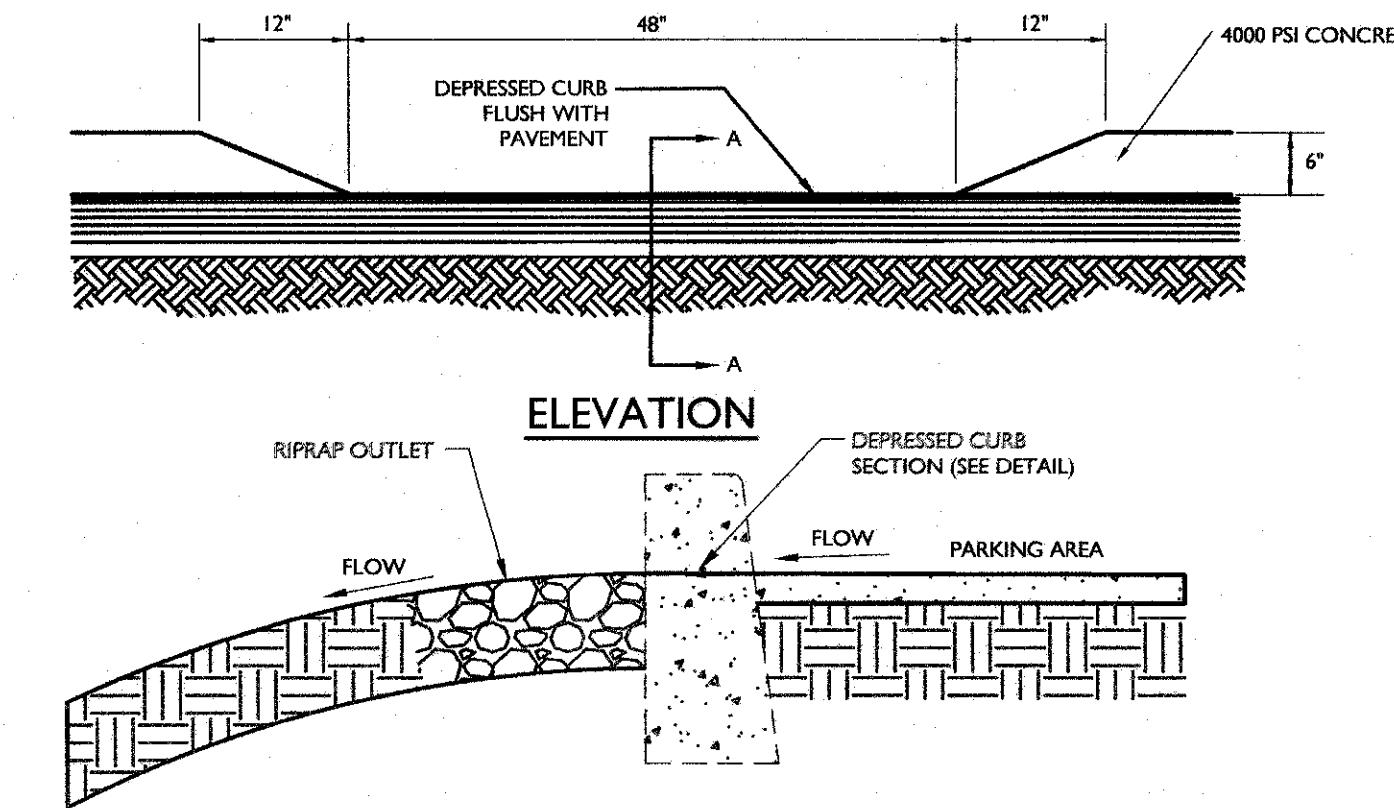
- STORMTECH NOTES:**
- CHAMBERS SHALL BE STORMTECH SC-740 OR APPROVED EQUAL.
 - CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
 - CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPIDE FLOW.
 - THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE ASHTO LRD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET FOR 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE ASHTO DESIGN TRUCK, WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
 - ONLY CHAMBERS THAT ARE APPROVED BY THE ENGINEER WILL BE ALLOWED. THE CONTRACTOR SHALL SUBMIT (3 SETS) OF THE FOLLOWING TO THE ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE.
 - A STRUCTURAL EVALUATION BY A REGISTERED STRUCTURAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE ASHTO LRD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET.
 - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL CROSS SECTION IS BASED.
 - THE INSTALLATION OF CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION INSTRUCTIONS.



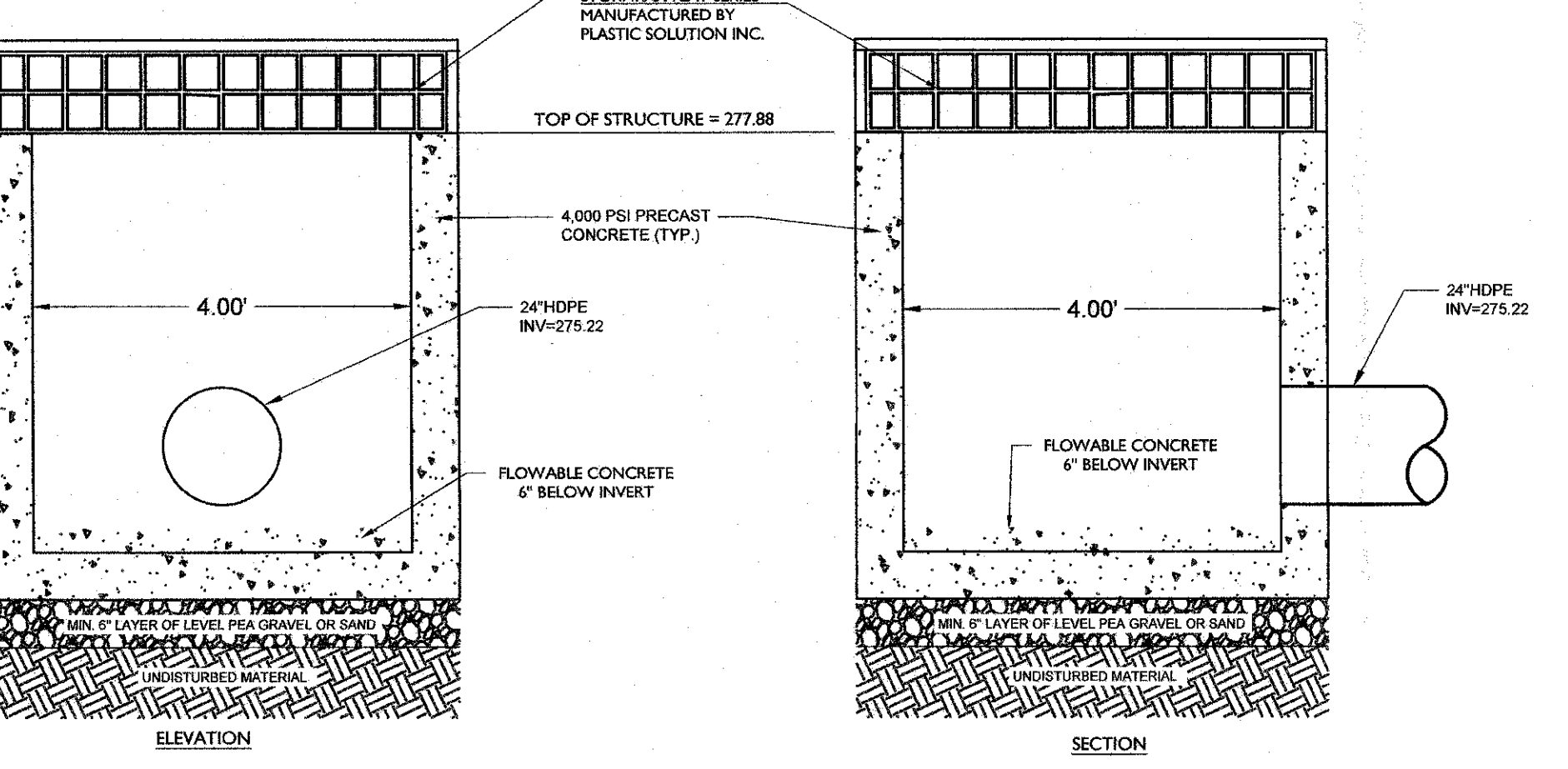
STORMTECH SC-740 CHAMBER



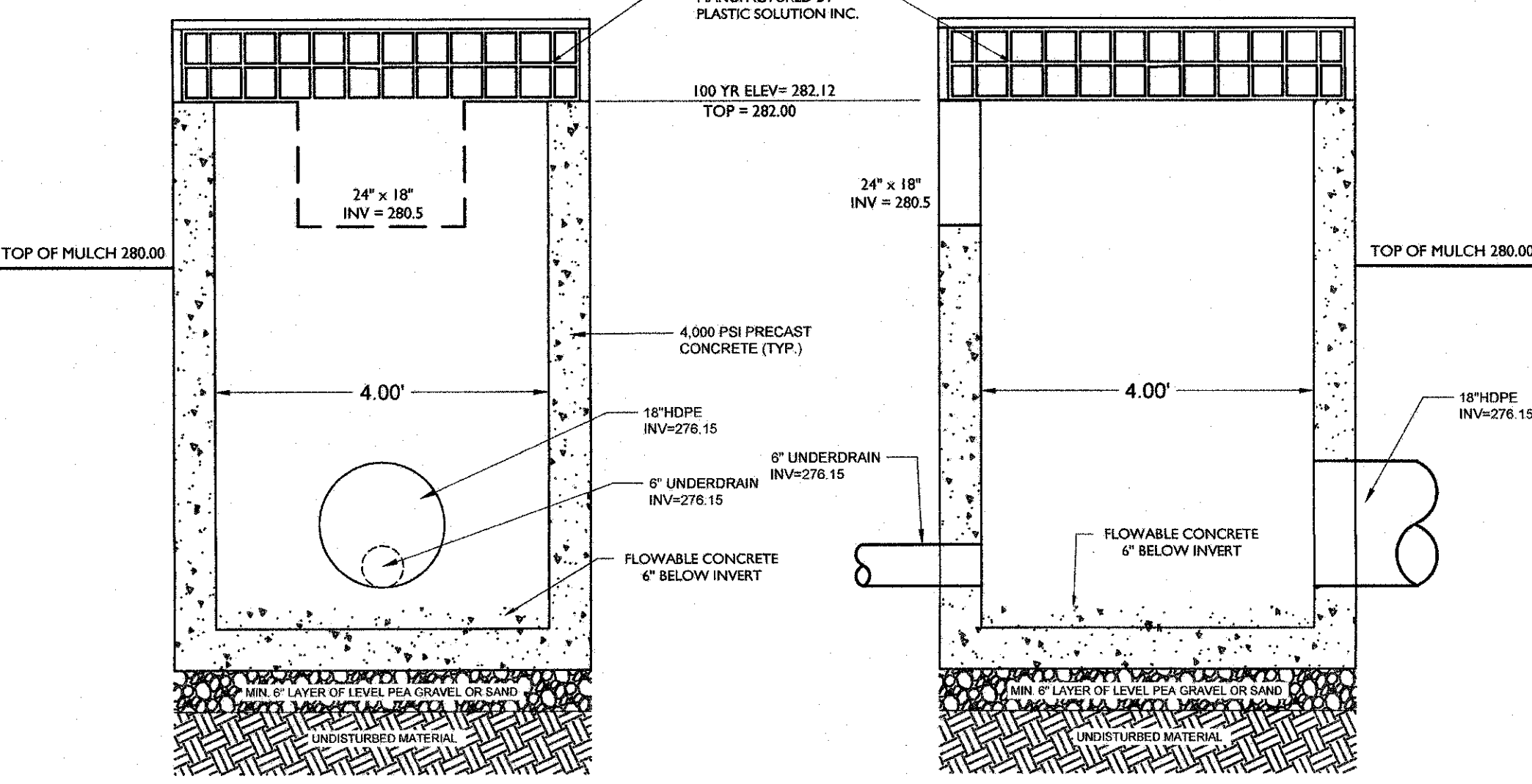
ROOF LEADER CLEANOUT AT BEND



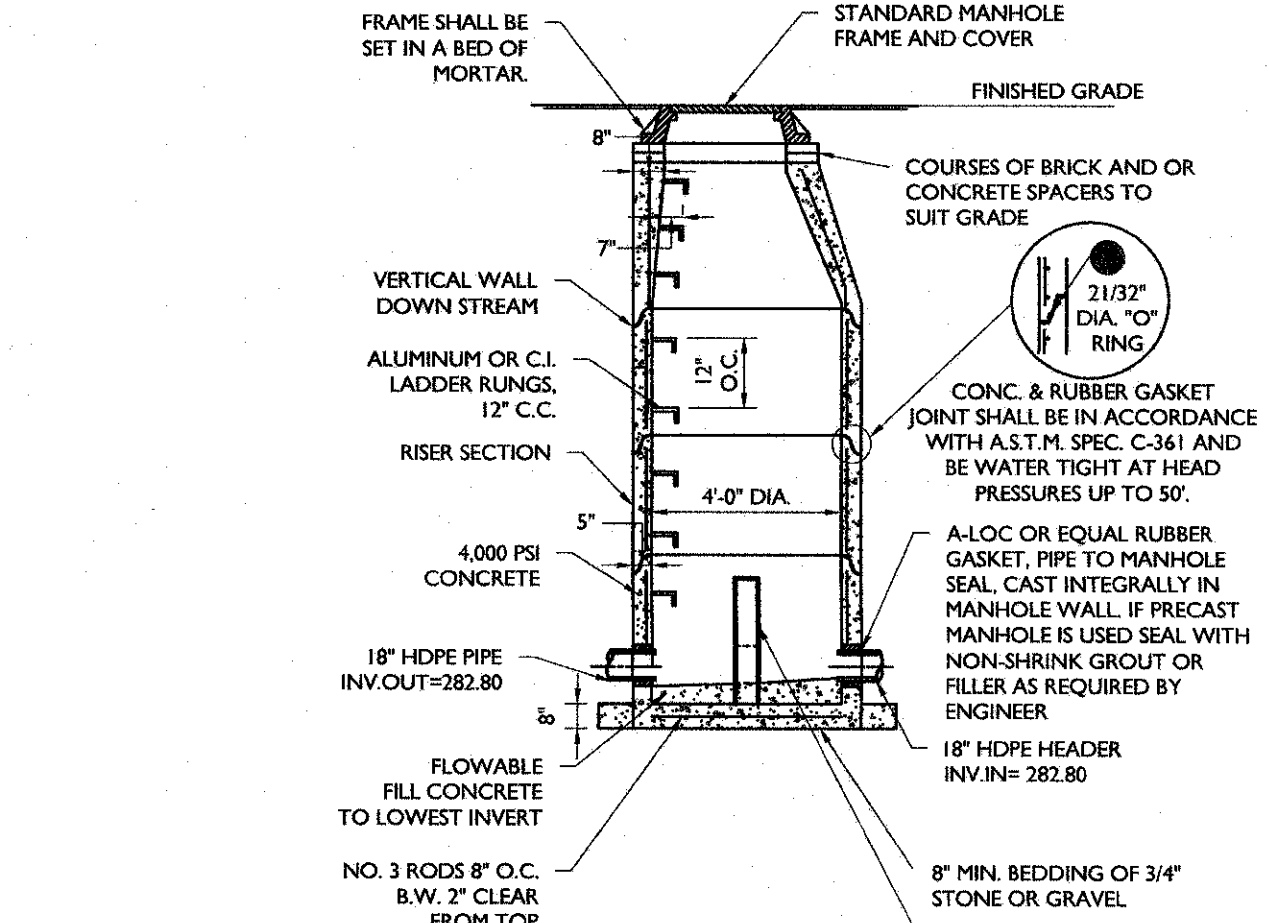
DEPRESSED CURB FOR DRAINAGE



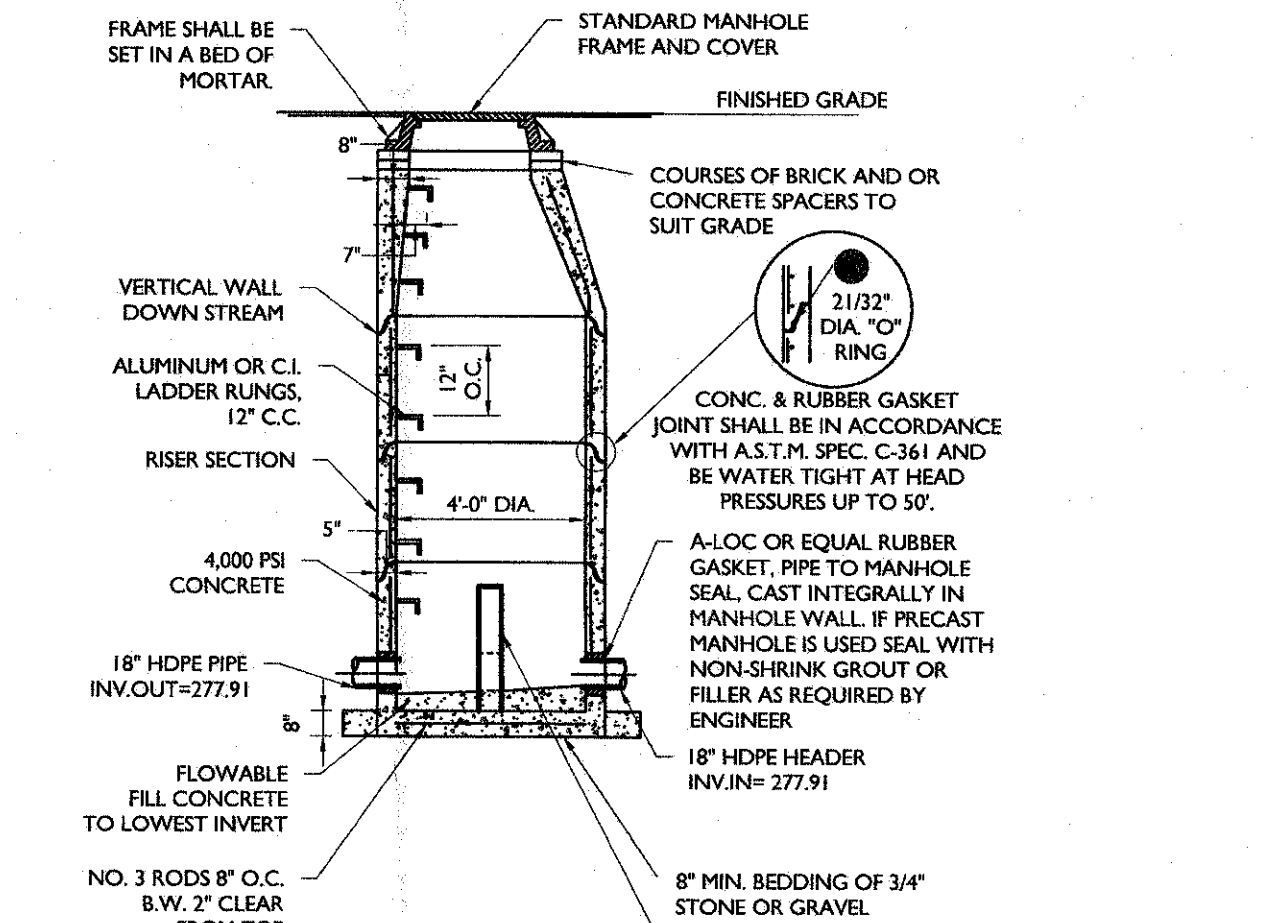
OUTLET CONTROL STRUCTURE DETAIL (OCS 1)



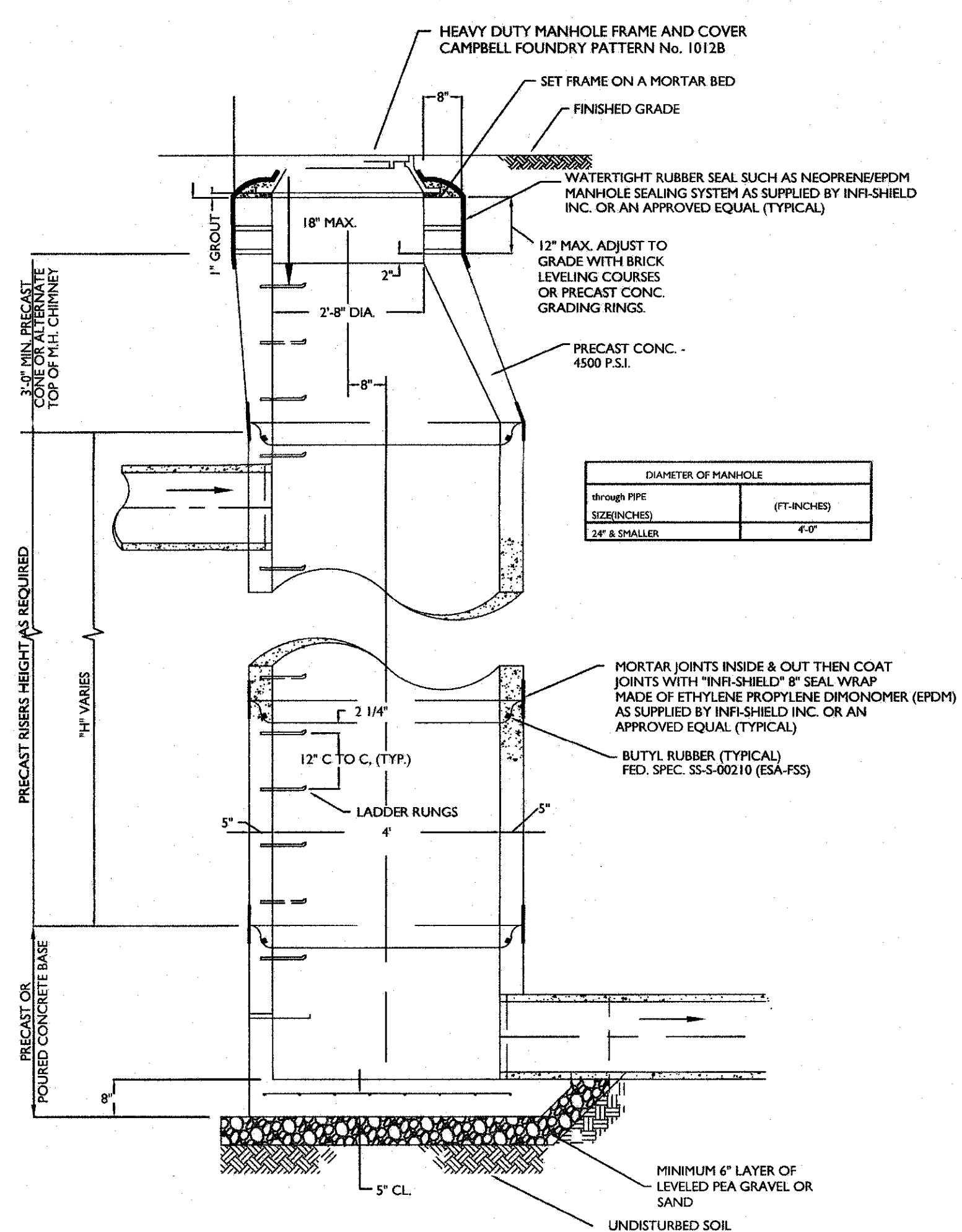
BIORETENTION AREA OUTLET CONTROL STRUCTURE DETAIL (OCS A)



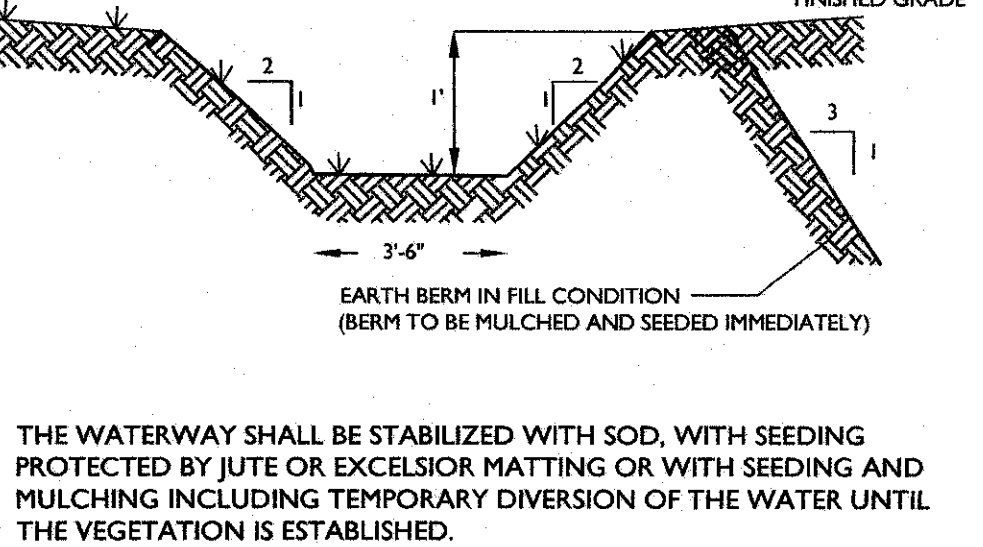
OUTLET CONTROL STRUCTURE DETAIL (OCS S2a)



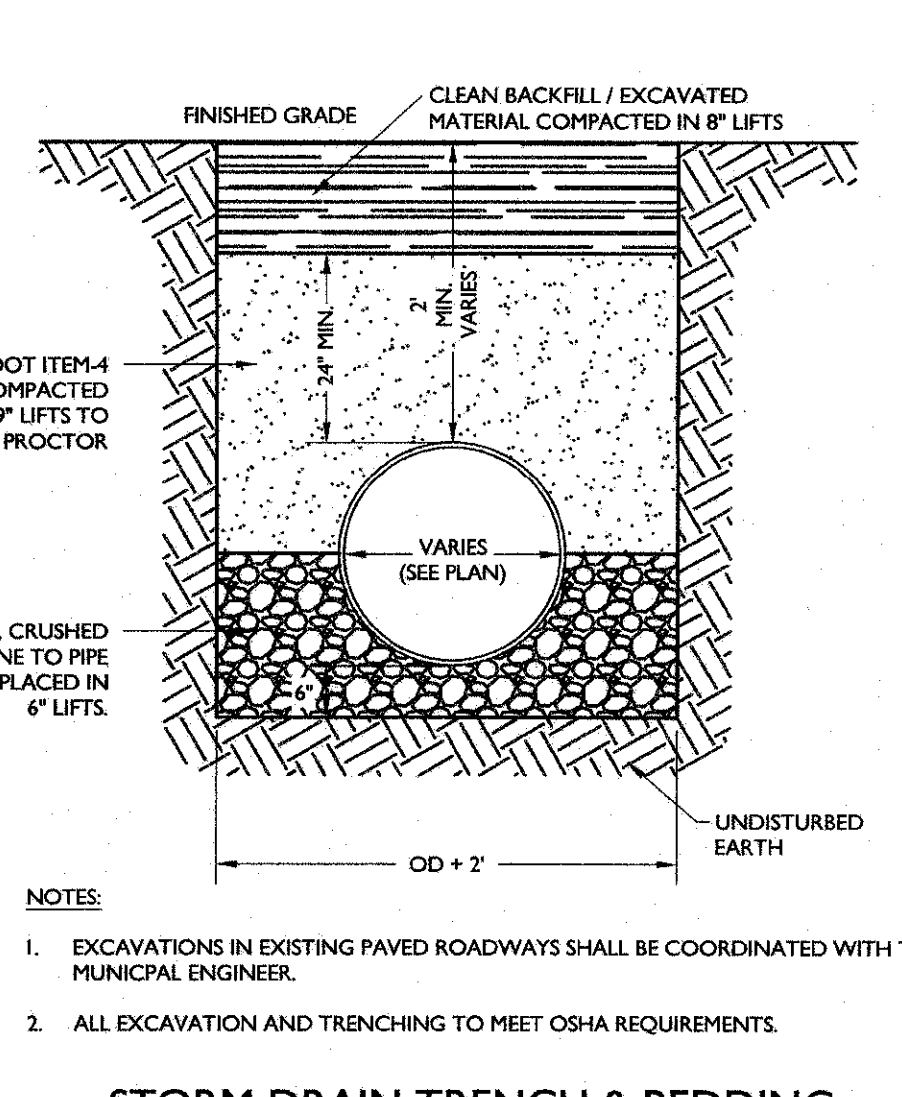
OUTLET CONTROL STRUCTURE DETAIL (OCS S2b)



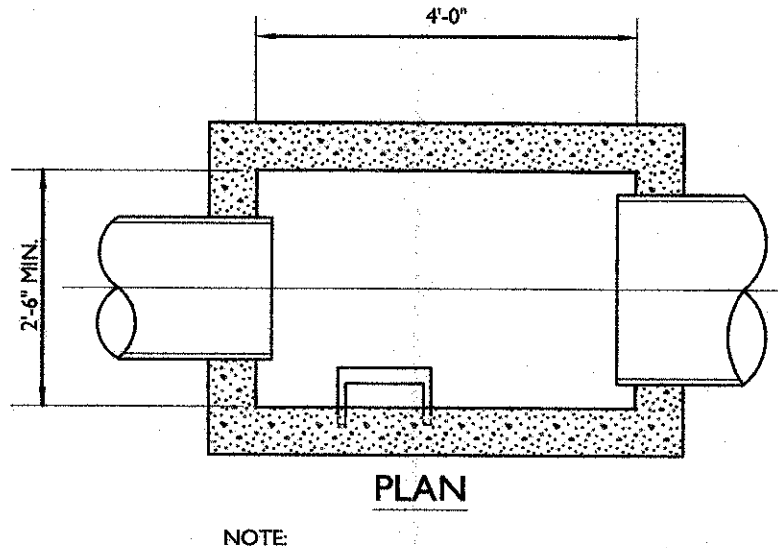
PRECAST STORM DRAIN MANHOLE SECTION



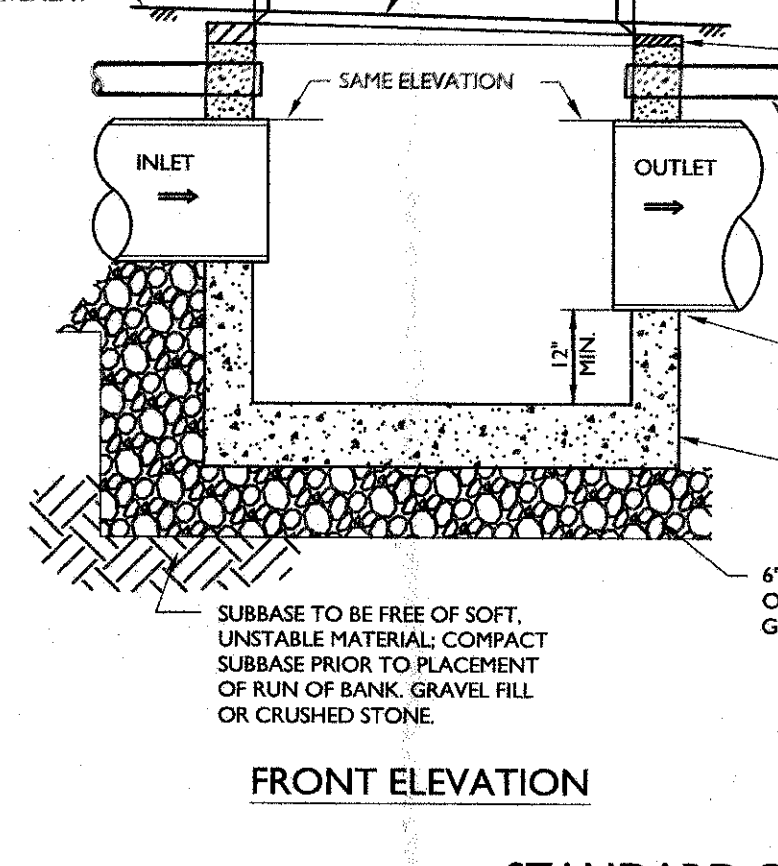
DRAINAGE SWALE DETAIL



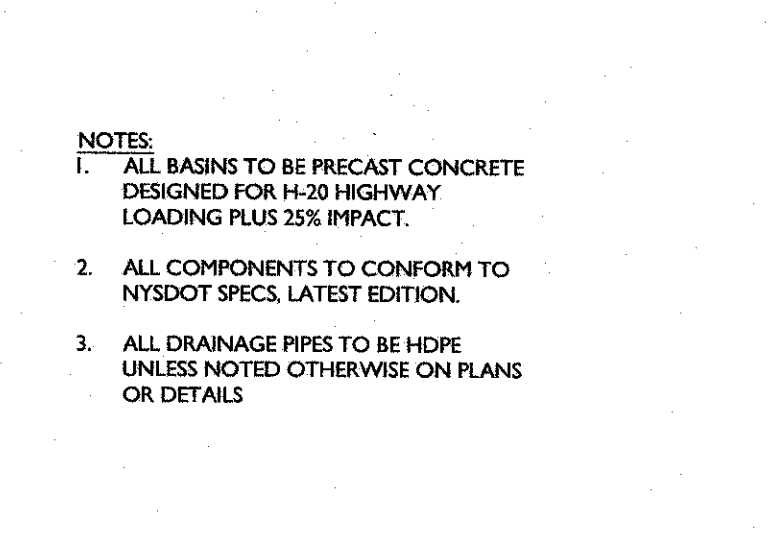
STORM DRAIN TRENCH & BEDDING



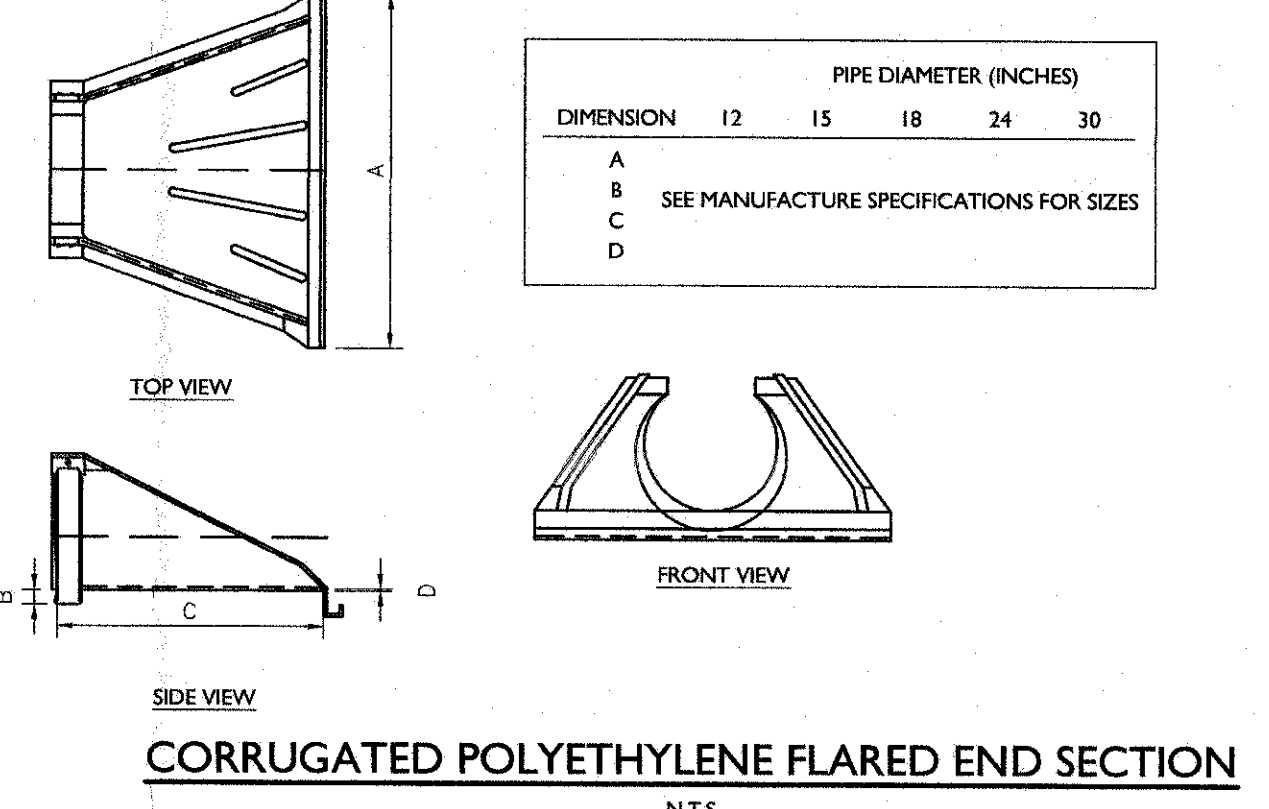
PLAN



FRONT ELEVATION



END ELEVATION



STANDARD CATCH BASIN DETAILS

CORRUGATED POLYETHYLENE FLARED END SECTION

SEE SHEET 15 FOR FILTERRA DETAILS

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Andrew B. Fetherston
 NEW YORK LICENSED PROFESSIONAL ENGINEER - LICENSE NUMBER 07355-1

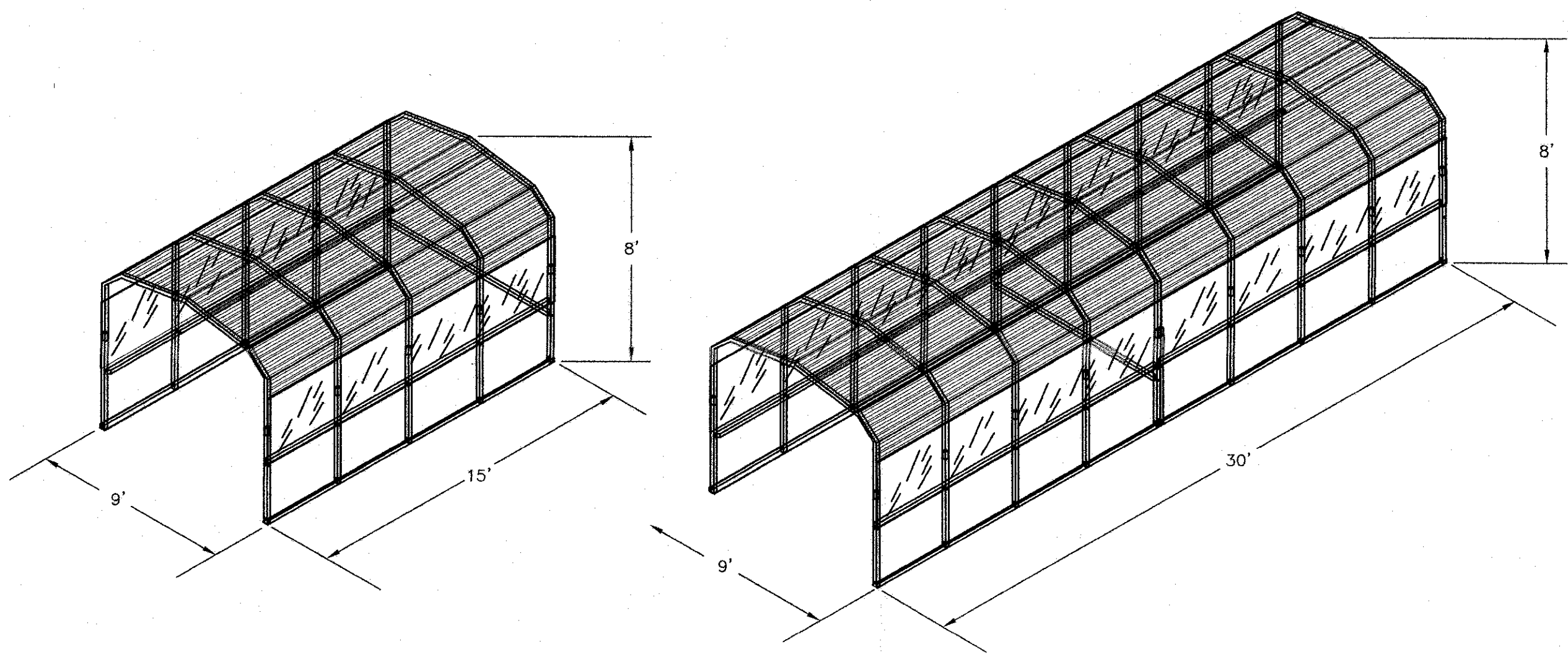
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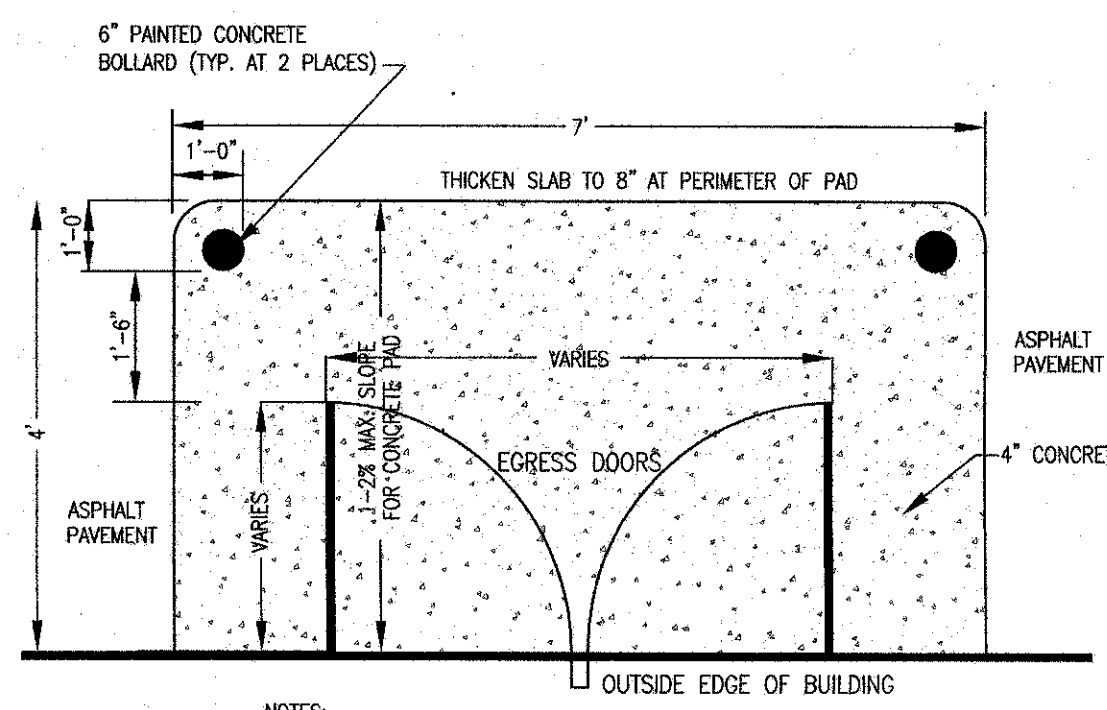
CONSTRUCTION DETAILS

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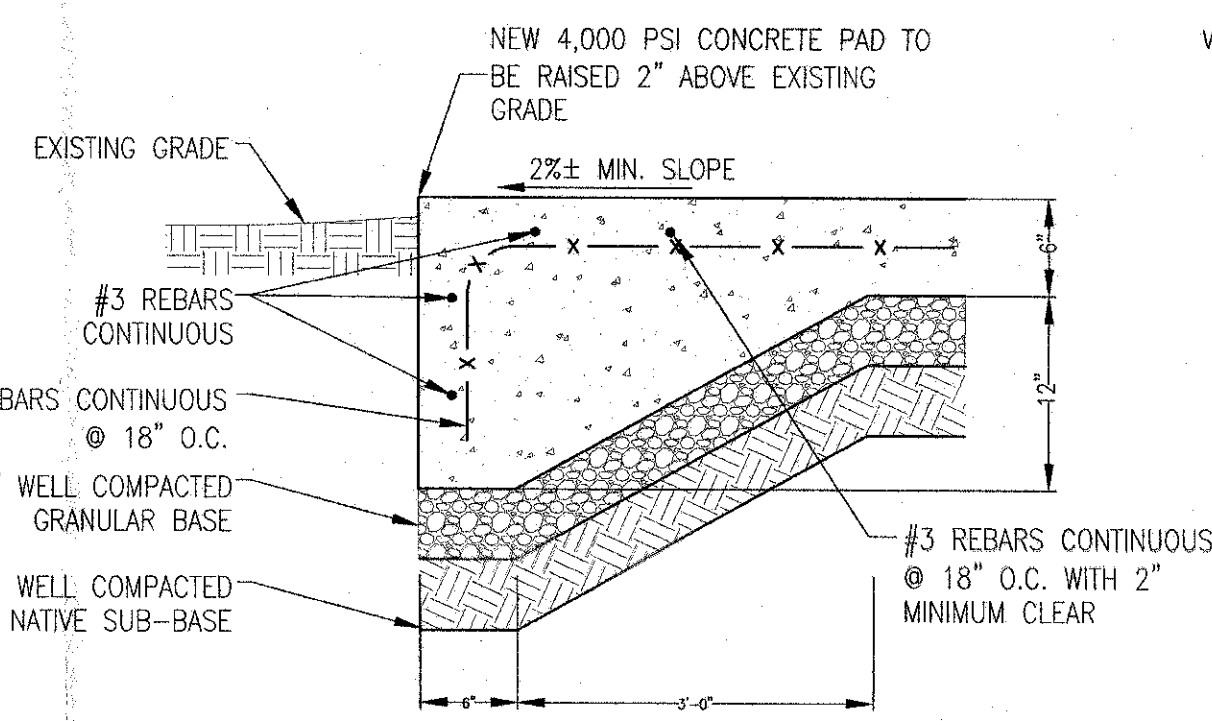
SINGLE AND DOUBLE CART CORRAL DETAILS

N.T.S.



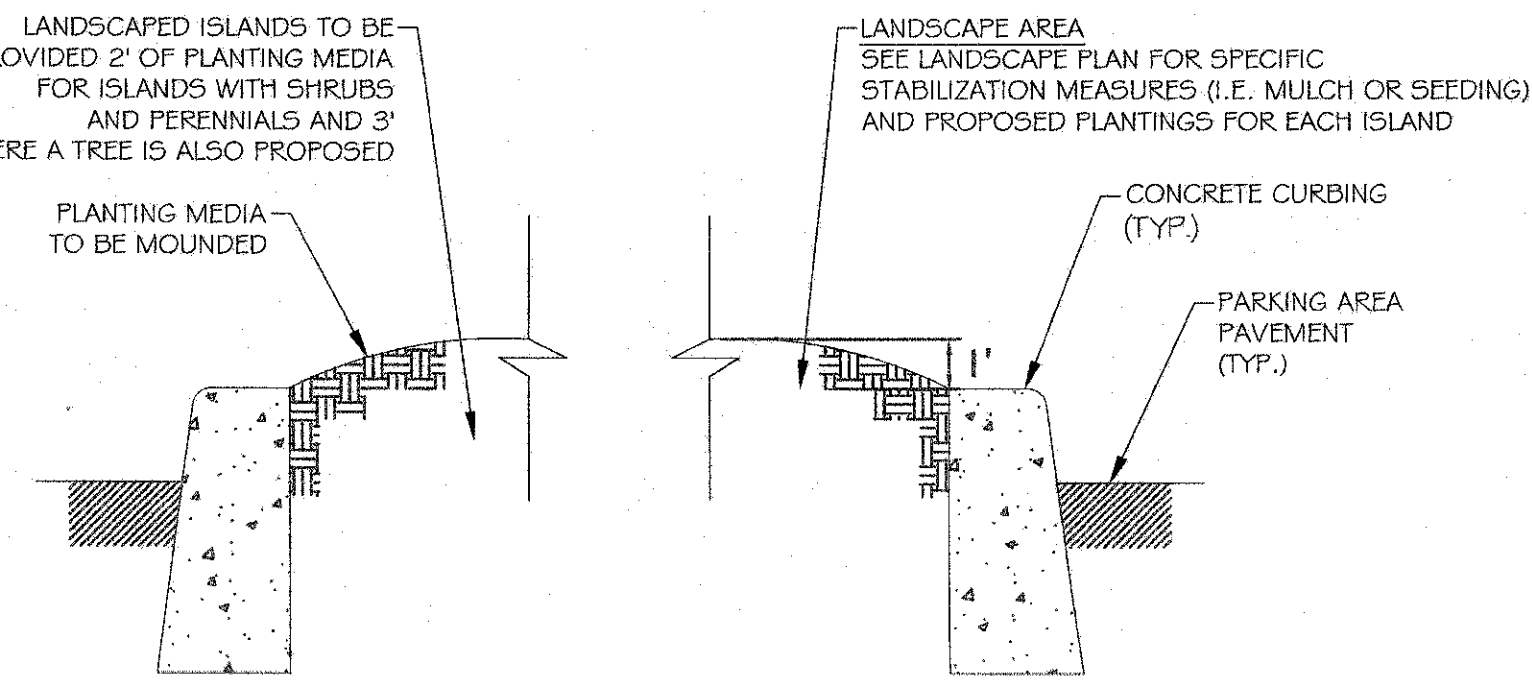
CONCRETE STOOP DETAIL

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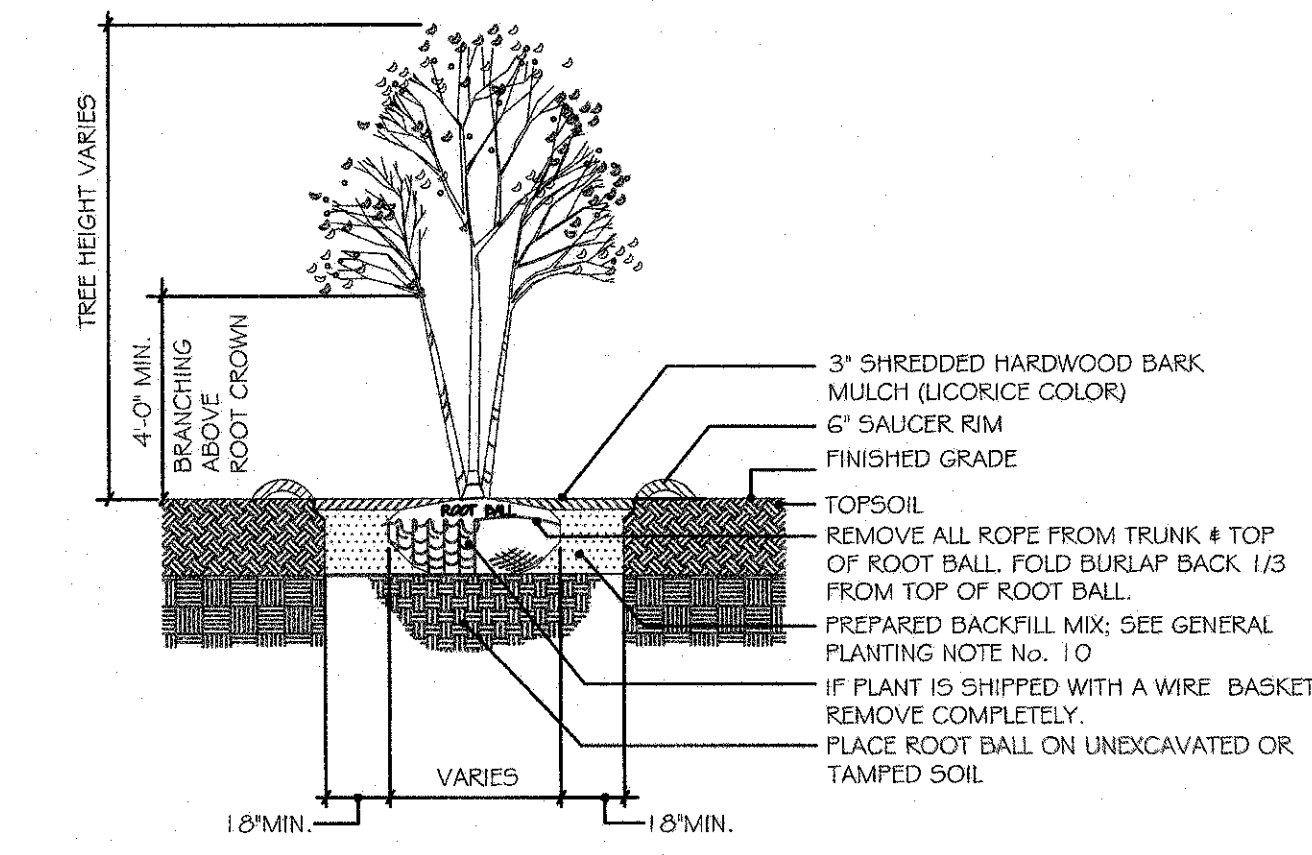
PROPANE CONCRETE PAD DETAIL

N.T.S.



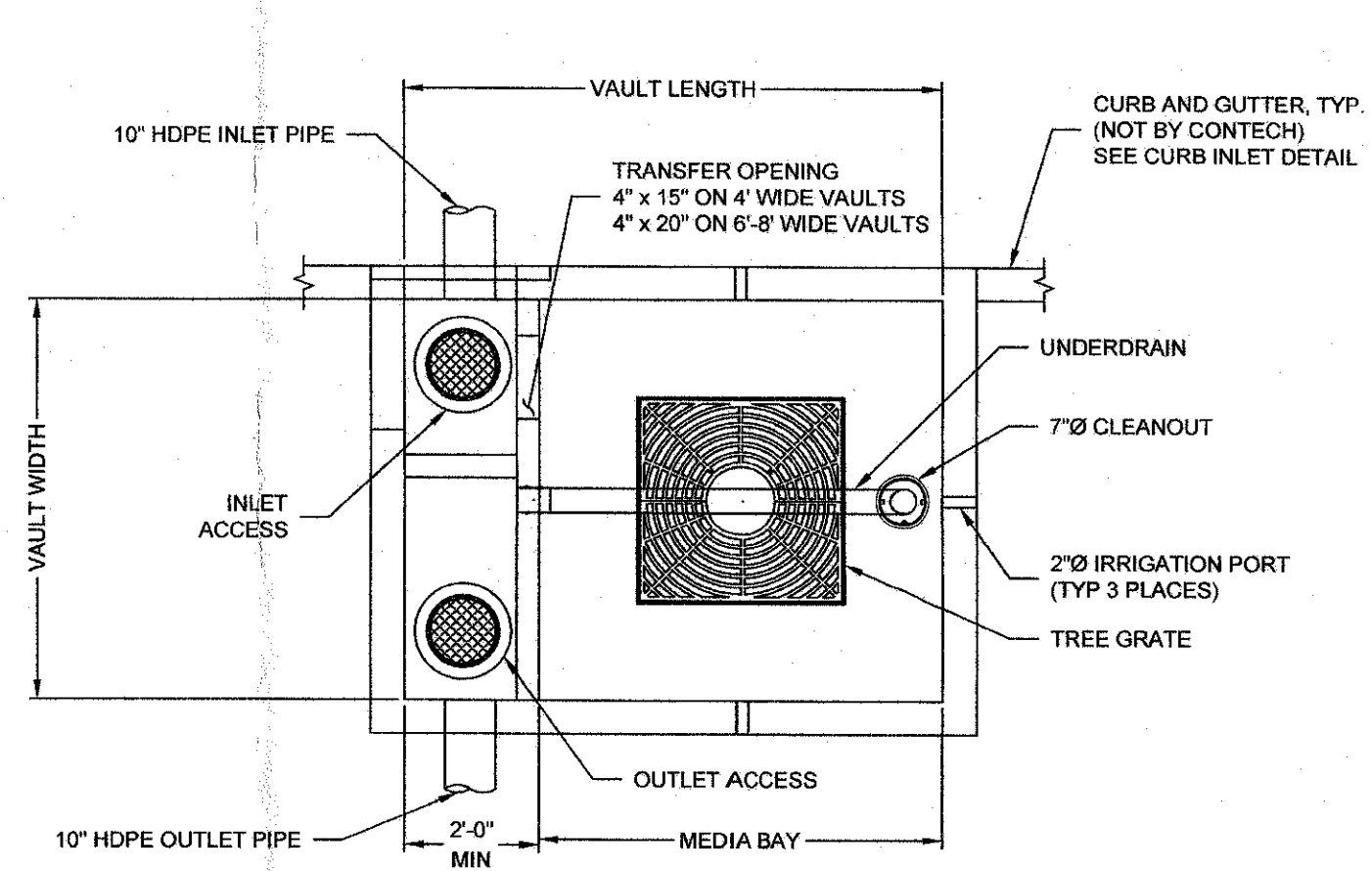
TYPICAL CURBED PARKING ISLAND DETAIL

N.T.S.



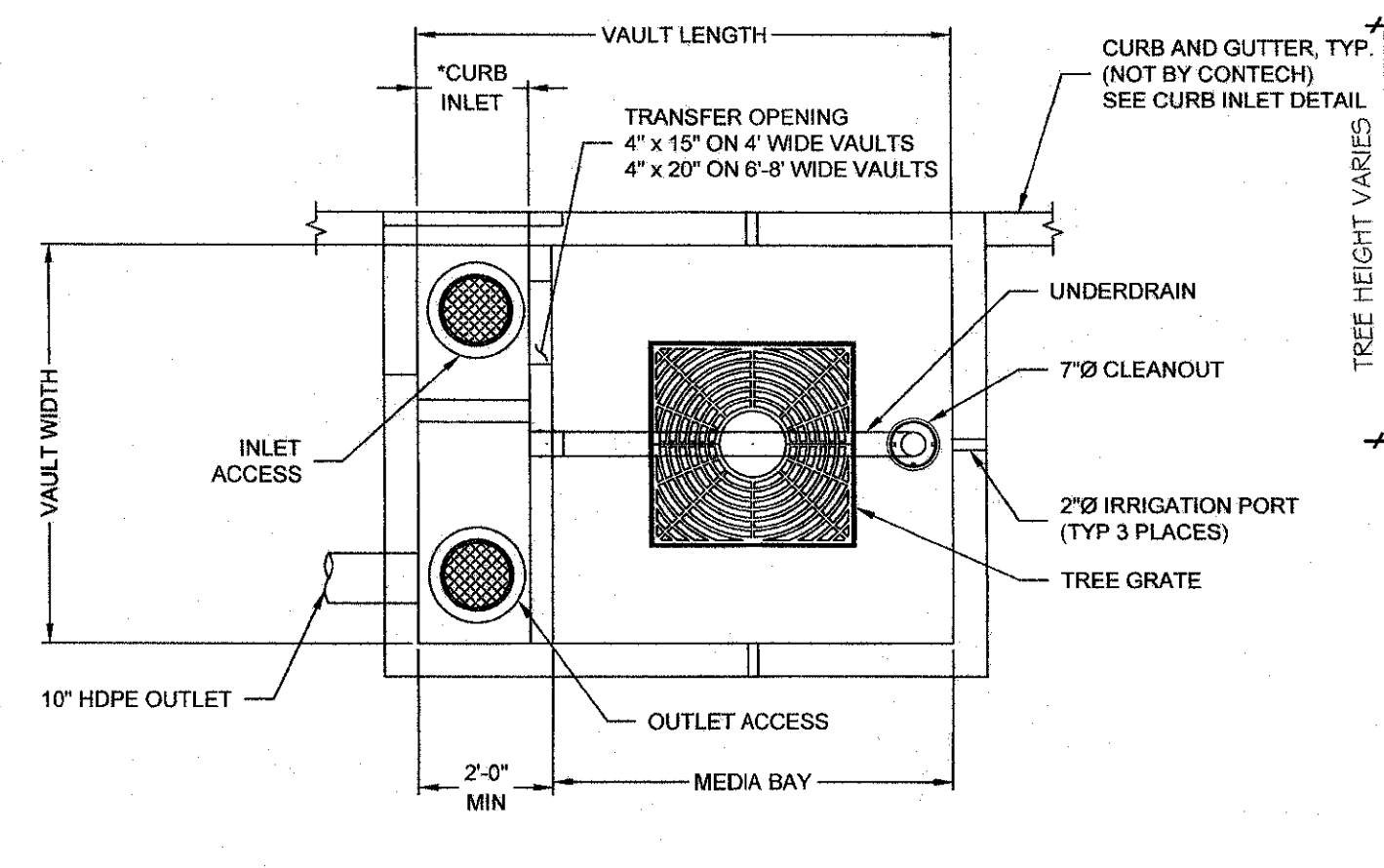
MULTI-STEM TREE PLANTING DETAIL

N.T.S.



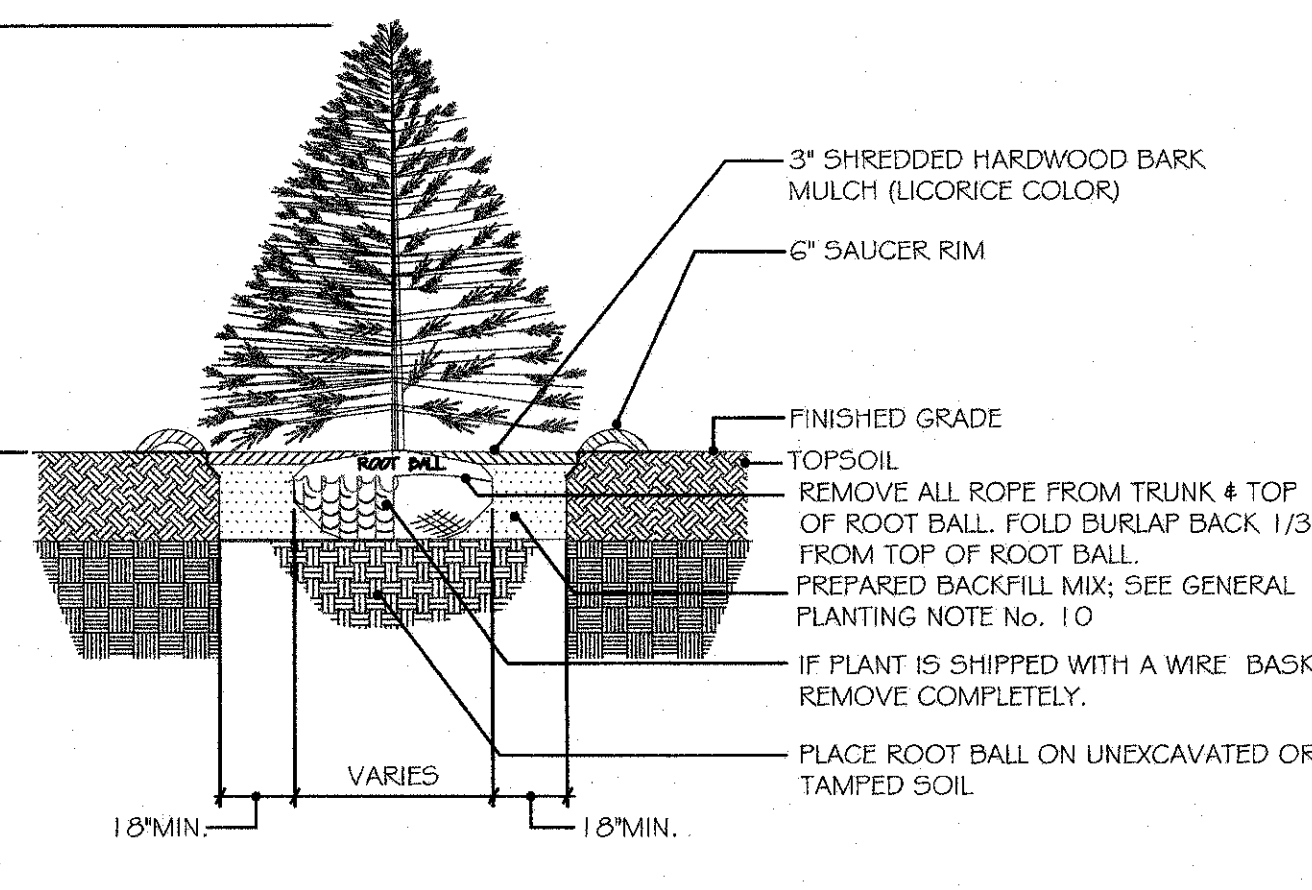
FUELING FACILITY FILTERRA UNIT
DETAIL WITH PIPE INLET (F-1)

N.T.S.



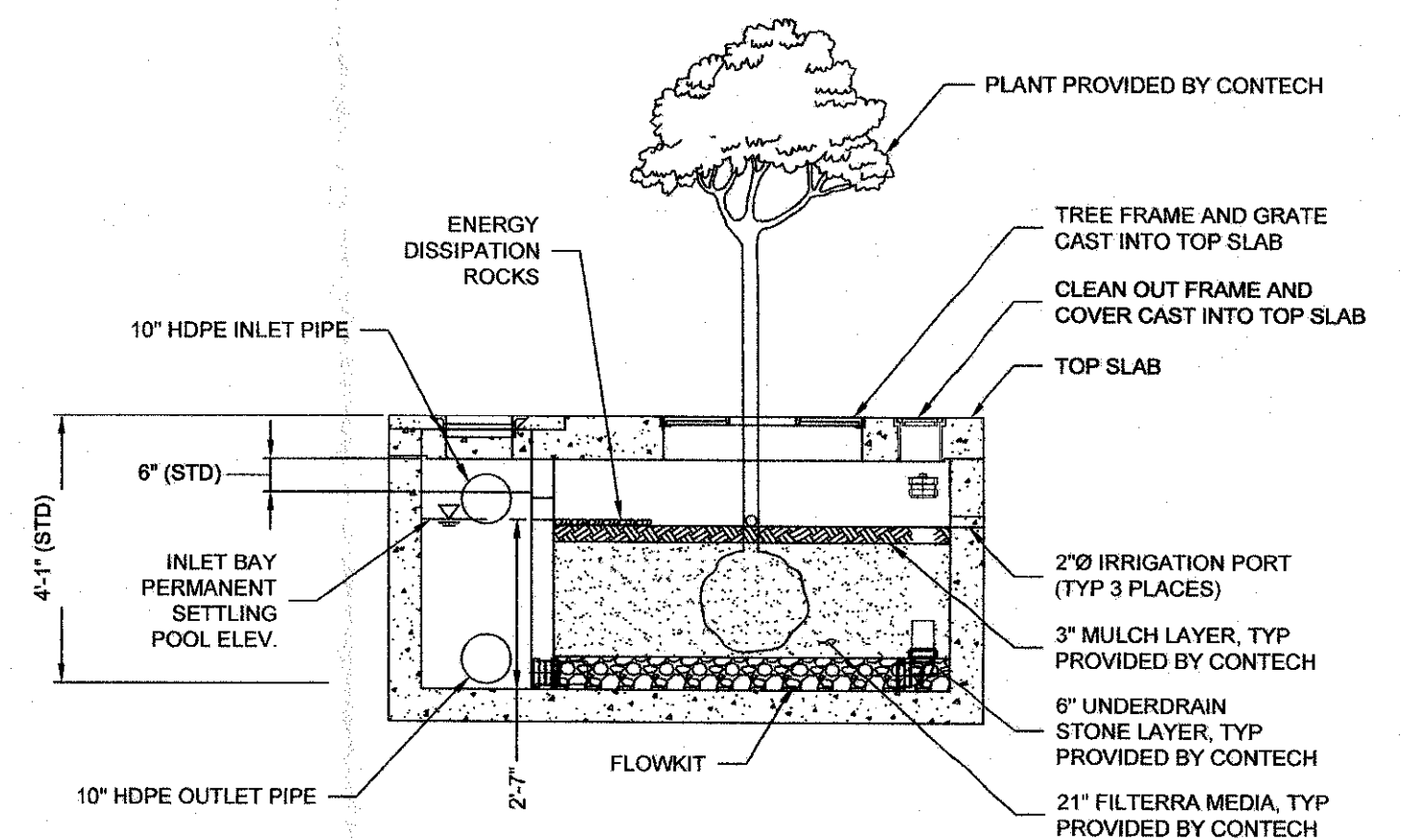
LOADING AREA FILTERRA UNIT
DETAIL WITH CURB INLET (F-2)

N.T.S.



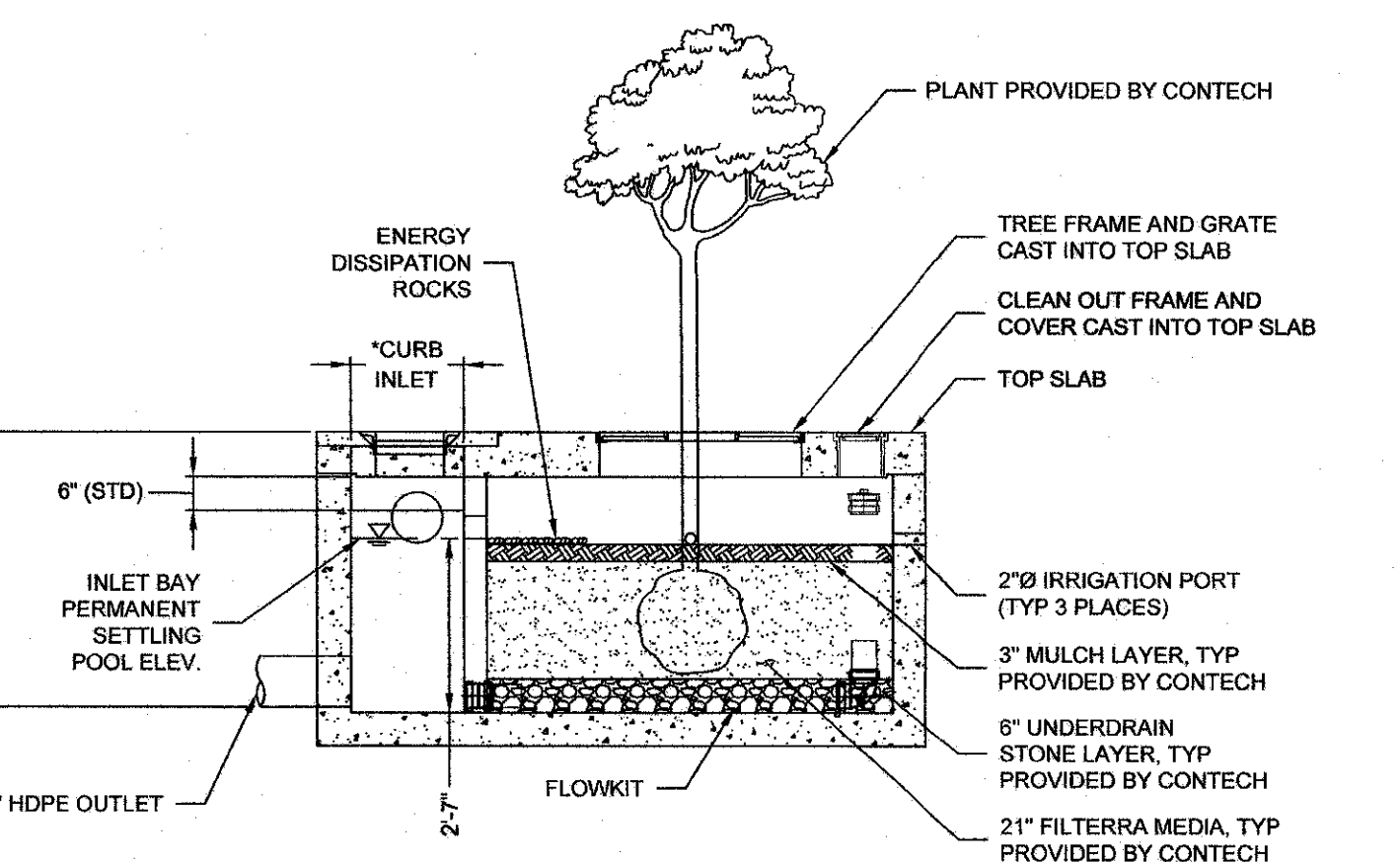
EVERGREEN PLANTING DETAIL

N.T.S.



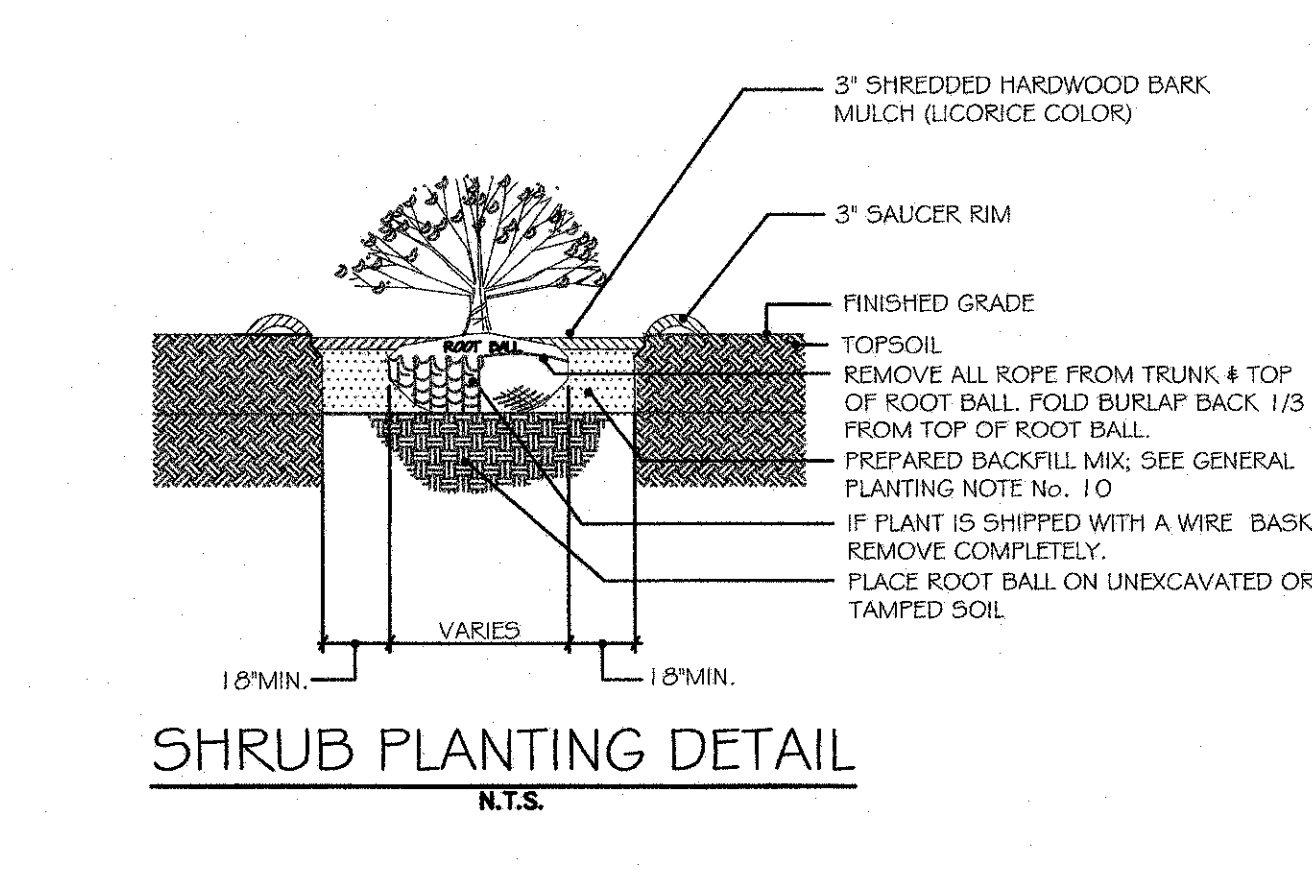
FUELING FACILITY FILTERRA UNIT
DETAIL WITH PIPE INLET (F-1)

N.T.S.



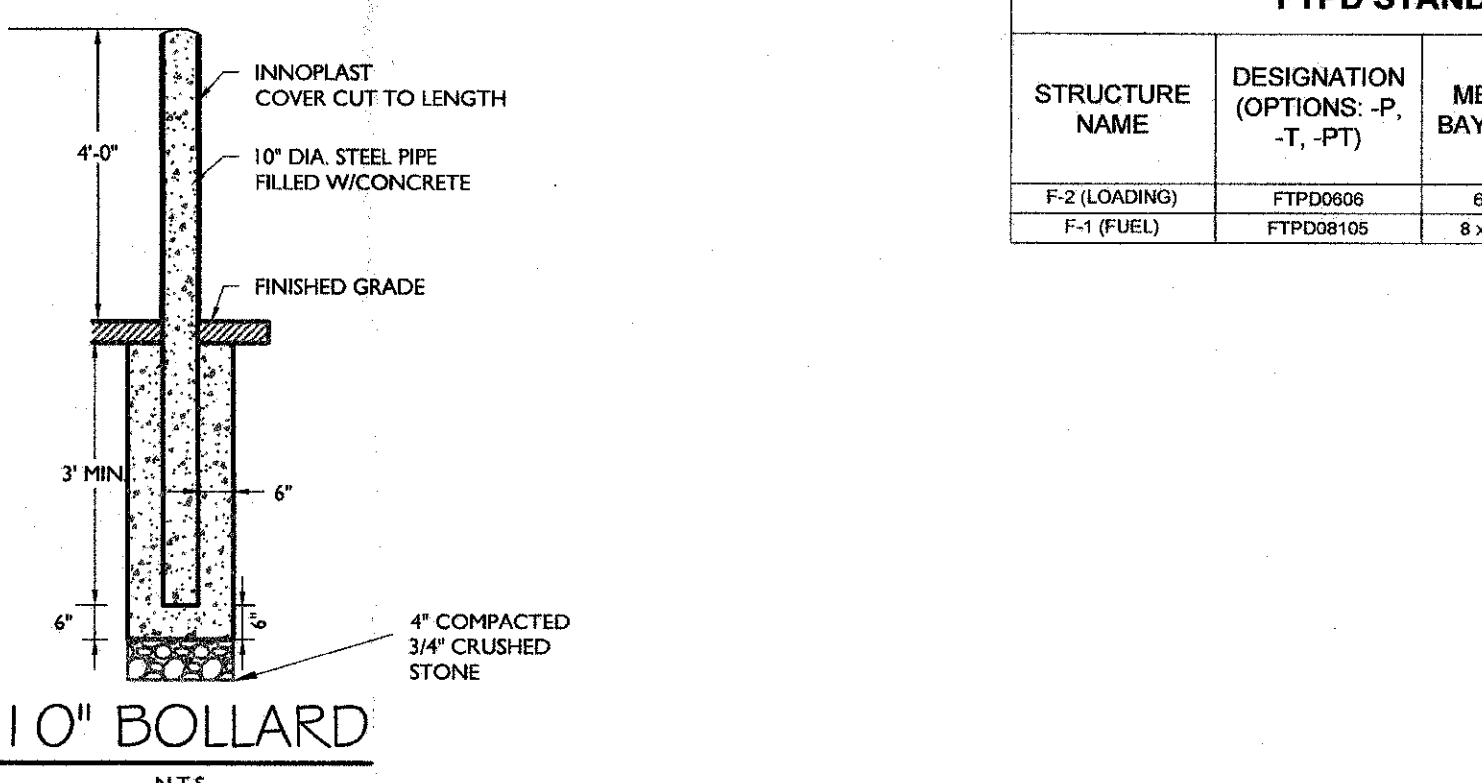
LOADING AREA FILTERRA UNIT
DETAIL WITH CURB INLET (F-2)

N.T.S.



SHRUB PLANTING DETAIL

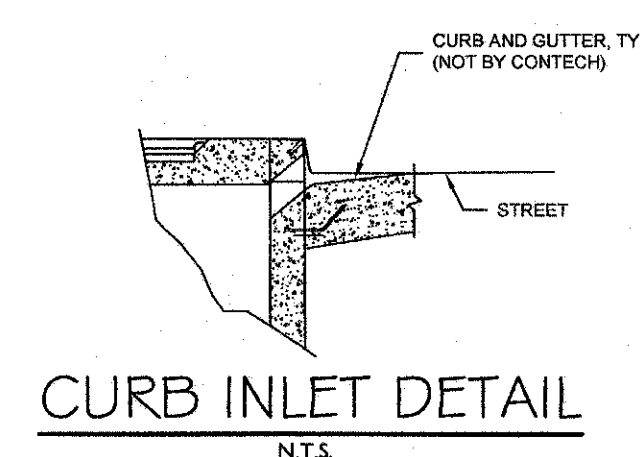
N.T.S.



10' BOLLARD

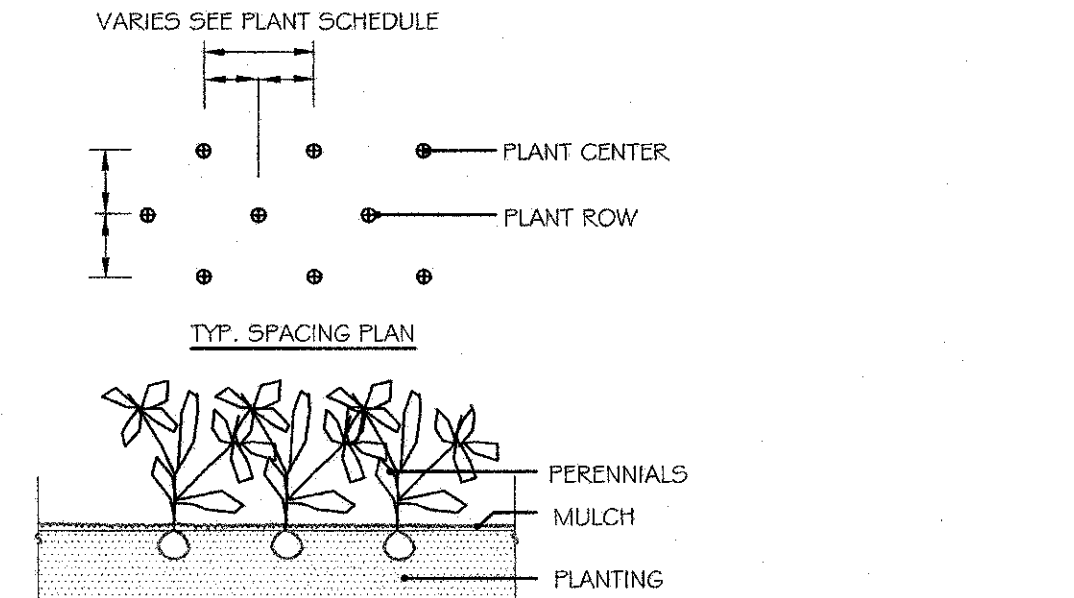
N.T.S.

FTPD STANDARD HEIGHT CONFIGURATION						
STRUCTURE NAME	DESIGNATION (OPTIONS: -P, -T, -PT)	MEDIA BAY SIZE	VAULT SIZE (W x L)	WEIR LENGTH/ MAX CURB OPENING	*MAX BYPASS FLOW (CFS)	INLET/ OUTLET ACCESS DIA
F-2 (LOADING)	FTPD099	6 x 8	6 x 8	1'-8"	1.4	12 1/2"
F-1 (FUEL)	FTPD100	8 x 10.5	8 x 14	3'-0"	2.5	24 1/2"



CURB INLET DETAIL

N.T.S.



PERENNIAL PLANTING DETAIL

N.T.S.

GENERAL PLANTING NOTES:

- THIS PLAN SHALL BE USED FOR LANDSCAPE PLANTING PURPOSES ONLY. EXAMINE ALL ENGINEERING DRAWINGS AND FIELD CONDITIONS FOR SPECIFIC LOCATIONS OF UTILITIES AND STRUCTURES AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR LOCATION CONFLICTS PRIOR TO PLANTING INSTALLATION.
- THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND VERIFY LOCATION OF ALL UTILITIES ON SITE PRIOR TO CONSTRUCTION.
- ALL PLANT MATERIAL SHALL CONFORM TO GUIDELINES AS SET FORTH IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S STANDARD FOR NURSERY STOCK OR THE PLANT MATERIAL WILL BE UNACCEPTABLE. ALL PLANT MATERIAL SHALL BE TRUE TO SPECIES, VARIETY, SIZE AND BE CERTIFIED DISEASE AND INSECT FREE. THE OWNER AND/OR THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO APPROVE ALL PLANT MATERIAL ON SITE PRIOR TO INSTALLATION.
- NO PLANT SUBSTITUTIONS SHALL BE PERMITTED WITH REGARD TO SIZE, SPECIES, OR VARIETY WITHOUT WRITTEN PERMISSION OF THE LANDSCAPE CONSULTANT. WRITTEN PROOF OF PLANT MATERIAL AVAILABILITY MUST BE DOCUMENTED.
- THE LOCATION OF ALL PLANT MATERIAL INDICATED ON THE LANDSCAPE PLANS ARE APPROXIMATE. THE FINAL LOCATION OF ALL PLANT MATERIAL AND PLANTING BED LINES SHALL BE DETERMINED IN THE FIELD UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT.
- ALL STREET TREES AND SHADE TREES PLANTED NEAR PEDESTRIAN OR VEHICULAR ACCESS SHOULD NOT BE BRANCHED LOWER THAN 7'-0" ABOVE GRADE. ALL PLANT MATERIAL LOCATED WITHIN SIGHT TRIANGLE EASEMENTS SHALL NOT EXCEED A MATURE HEIGHT OF 30' ABOVE THE ELEVATION OF THE ADJACENT CURB. ALL STREET TREES PLANTED IN SIGHT TRIANGLE EASEMENTS SHALL BE PRUNED TO NOT HAVE BRANCHES BELOW 10'-0".
- THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT SCHEDULE SHOULD ANY PLANT QUANTITY DISCREPANCIES OCCUR.
- ALL PLANT MATERIAL SHALL BE PROPERLY INSTALLED IN CONFORMANCE WITH THE TYPICAL PLANTING DETAILS. INSTALL ALL PLANT MATERIAL ON UNDISTURBED GRADE. CUT AND REMOVE JUTE BURLAP FROM TOP ONE-THIRD OF THE ROOT BALL. WIRE BASKETS AND NOT JUTE BURLAP SHALL BE COMPLETELY REMOVED PRIOR TO BACKFILLING THE PLANT PIT.
- BRANCHES OF DECIDUOUS TREES SHALL BE PRUNED BACK BY NO MORE THAN ONE QUARTER (1/4) TO BALANCE THE TOP GROWTH WITH ROOTS AND TO PRESERVE THEIR CHARACTER AND SHAPE. THE CENTRAL LEADER OF TREE SHALL NOT BE PRUNED.
- PROVIDE PLANTING PIT AS INDICATED ON PLANTING DETAILS. BACKFILL PLANTING PIT WITH ONE PART EACH OF TOPSOIL, PEAT MOSS AND PARENT MATERIAL. IF WET SOIL CONDITIONS EXIST THEN PLANTING PIT SHALL BE EXCAVATED AN ADDITIONAL 1'-0" AND FILLED WITH CRUSHED STONE OR UNTIL DRAWING.
- ALL PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT BORE TO EXISTING GRADE AT NURSERY.
- OPTIMUM PLANTING TIME: DECIDUOUS - APRIL 1 TO JUNE 1 & OCTOBER 15 TO NOVEMBER 30. CONIFEROUS - APRIL 1 TO JUNE 1 & SEPTEMBER 1 TO NOVEMBER 1.
- PLANTING OUTSIDE OF THE OPTIMUM DATES SHALL NOT BE CONDUCTED WITH OUT PRIOR APPROVAL FROM THE LANDSCAPE CONSULTANT.
- NEWLY INSTALLED PLANT MATERIAL SHALL BE WATERED AT THE TIME OF INSTALLATION. REGULAR WATERING SHALL BE PROVIDED TO ENSURE THE ESTABLISHMENT, GROWTH AND SURVIVAL OF ALL PLANTS. WATERING AMOUNTS SHOULD BE ADJUSTED AS RAIN EVENTS OCCUR. WATERING AFTER THE INITIAL 4 WEEKS SHALL BE ADJUSTED BASED ON SEASONAL CONDITIONS. WATERING SHALL NOT TAKE PLACE DURING THE HOTTEST PART OF THE DAY.
- ALL PLANT MATERIAL SHALL BE GUARANTEED FOR TWO YEARS AFTER THE DATE OF FINAL ACCEPTANCE. ANY PLANT MATERIAL THAT DIES WITHIN THAT TIME PERIOD SHALL BE REMOVED, INCLUDING THE STUMP, AND REPLACED BY A TREE OF SIMILAR SIZE AND SPECIES AT NO EXPENSE TO THE OWNER.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM 4" LAYER OF TOPSOIL IN ALL LAWN AREAS AND A MINIMUM OF 1/2" OF TOPSOIL IN ALL PLANTING AREAS. A FULL SOIL ANALYSIS SHALL BE CONDUCTED AFTER CONSTRUCTION AND PRIOR TO THIS SHEET. ALL DISTURBED LAWN AREAS SHALL BE TOPSOILED, LIMED, FERTILIZED AND PINE GRADED PRIOR TO LAWN INSTALLATION.
- ALL DISTURBED LAWN AREAS SHALL BE STABILIZED WITH SEED AS INDICATED ON THE LANDSCAPE PLANS. TEMPORARY SEEDING SHALL BE IN CONFORMANCE WITH THE GENERAL SEEDING NOTES ON THIS SHEET. ALL DISTURBED LAWN AREAS SHALL BE TOPSOILED, LIMED, FERTILIZED AND PINE GRADED PRIOR TO LAWN INSTALLATION.
- ALL PLANTING BEDS SHALL RECEIVE 3" OF SHREDDED HARDWOOD BARK MULCH.
- ALL SHRUB MASSSES SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS.
- ALL PLANTING DEBRIS (WIRE, TWINE, RUBBER HOSE, BACKFILL ETC) SHALL BE REMOVED FROM THE SITE AFTER PLANTING IS COMPLETE. PROPERTY IS TO BE LEFT IN A NEAT ORDERLY CONDITION IN ACCORDANCE WITH ACCEPTED PLANTING PRACTICES.

GENERAL SEEDING NOTES:

- TEMPORARY SEEDING: REFER TO SOIL EROSION AND SEDIMENT CONTROL PLANS.
- PERMANENT SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE OR APPROVED EQUAL. - OPTIMUM SEEDING DATES ARE BETWEEN APRIL 1 AND MAY 31 AND OCTOBER 15 AND OCTOBER 15.
 - TURF MIX (7-10 LBS/J), 000 5-F. MINIMUM
 - TALL FESCUE, STINGRAY (34%)
 - TALL FESCUE, RAYTOR II (33%)
 - HARD FESCUE, RAY (33%)
 - BAWII MIX (2-3 LBS/J), 000 5-F. MINIMUM
 - TALL FESCUE (50%)
 - PERENNIAL RYEGRASS (10%)
 - DIRTFOOT TRIFOLIUM (30%)
- SEEDING OUTSIDE OF THE OPTIMUM DATES SHALL NOT BE CONDUCTED WITH OUT PRIOR APPROVAL.
- PERMANENT SEEDING TO BE APPLIED BY RAKING OR DRILLING INTO THE SOILS AT THE RATE GIVEN ABOVE.
 - 1. NO FERTILIZER SHALL BE APPLIED BETWEEN DEC. 1 AND APRIL 1 IN ANY YEAR.
 - 2. SHALL NOT BE APPLIED WITHIN 20 FEET OF A WATER BODY.
 - 3. ONLY LAWN FERTILIZERS WITH LESS THAN 0.07% BY WEIGHT PHOSPHATE CONTENT MAY BE APPLIED. (A SOIL TEST PRIOR TO FERTILIZER APPLICATION IS RECOMMENDED.)
- IF SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY OR PERMANENT SEEDING, EXPOSED AREA TO BE STABILIZED WITH MULCH AS INDICATED IN NOTE 6.
- MULCH TO CONSIST OF SMALL GRAIN STRAW OR BALT HAY ANCHORED WITH A WOOD AND FIBER MULCH BINDER OR AN APPROVED EQUAL. MULCH WILL BE SPREAD AT RATES PER NYSDEC STANDARDS AND ANCHORED WITH A MULCH ANCHORING TOOL OR LIQUID MULCH BINDER, AND SHALL BE PROVIDED ON ALL SEEDINGS. HYDROMULCH SHALL ONLY BE USED DURING OPTIMUM GROWING SEASONS.
- AS NEEDED, WORK LIME AND FERTILIZER INTO SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTRA-TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BLY CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
- REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL.
- INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

PLANT DETAIL NOTES:

- NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT. MULCH SHALL NOT TOUCH THE TREE TRUNK.
- PLANTING DEPTH SHALL BE THE SAME OR HIGHER AS GROWN IN NURSERY.
- WIRE BASKETS AND NON-JUTE BURLAP MUST BE ENTIRELY REMOVED FROM THE ROOT BALL. JUTE BURLAP MUST BE REMOVED FROM THE TOP 1/3 OF THE ROOT BALL.
- DEPTH OF PLANT PIT SHALL BE INCREASED BY 1" WHEREVER POOR SOIL CONDITIONS OCCUR, WITH THE ADDITION OF LOOSE AGGREGATE.
- CONTRACTOR SHALL PARTIALLY FILL WITH WATER A REPRESENTATIVE NUMBER OF PITS IN EACH AREA OF THE PROJECT PRIOR TO PLANTING TO DETERMINE IF THERE IS ADEQUATE PERCOLATION. IF PIT DOESN'T PERCOLATE, MEASURES MUST BE TAKEN TO ASSURE PROPER DRAINAGE BEFORE PLANTING.
- PLANTING MUST BE GUARANTEED FOR TWO FULL GROWING SEASONS FROM THE TIME OF FINAL ACCEPTANCE BY THE LANDSCAPE CONSULTANT. CONTRACTOR SHALL REMOVE ALL WRAPPING AT THE END OF GUARANTEE PERIOD OR SOONER PER PROJECT LANDSCAPE ARCHITECT.
- BACKFILL MIXTURE TO BE SPECIFIED BASED UPON SOIL TEST AND CULTURAL REQUIREMENTS OF PLANT.
- PRUNE DAMAGED AND CONFLICTING BRANCHES MAINTAINING NORMAL TREE SHAPE. NEVER CUT CENTRAL TRUNK OR LEADER.

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