

MONTEFIORE HEALTH SYSTEM NYACK CAMPUS  
SITE PLAN DRAWING SET  
PLANNING BOARD SUBMISSION

DATE: 03.17.2020

PARKING STRUCTURE

160 NORTH MIDLAND AVENUE  
NYACK, NY 10960

TAX LOT INFO  
BLOCK: 1  
LOT: 74



LOCATION MAP

PROJECT CONTACTS

SCALE: 1" = 100'

OWNER:

MONTEFIORE HEALTH SYSTEM NYACK CAMPUS  
160 NORTH MIDLAND AVENUE  
NYACK, NY 10960

ARCHITECT:

POMARICO DESIGN STUDIO ARCHITECTURE, PLLC  
19 FRONT STREET  
NEWBURGH, NY 12550  
(845) 561-0448

CIVIL ENGINEER, GEOTECHNICAL ENGINEER, ENVIRONMENTAL, TRAFFIC,  
LANDSCAPE ARCHITECT & SURVEYOR:

LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE  
ARCHITECTURE AND GEOLOGY, D.P.C.  
300 KIMBALL DRIVE, 4TH FLOOR  
PARSIPPANY, NJ 07054  
(973) 560-4900

STRUCTURAL:

MURRAY ENGINEERING PC CONSULTING STRUCTURAL ENGINEERS  
307 SEVENTH AVENUE- SUITE 1001  
NEW YORK, NY 10001  
(212) 741-1102

MEP ENGINEER:

GOLDMAN COPELAND ASSOCIATES, P.C. CONSULTING ENGINEERS  
520 EIGHTH AVENUE  
NEW YORK, NY 10018  
(212) 868-4660

INDEX OF DRAWINGS

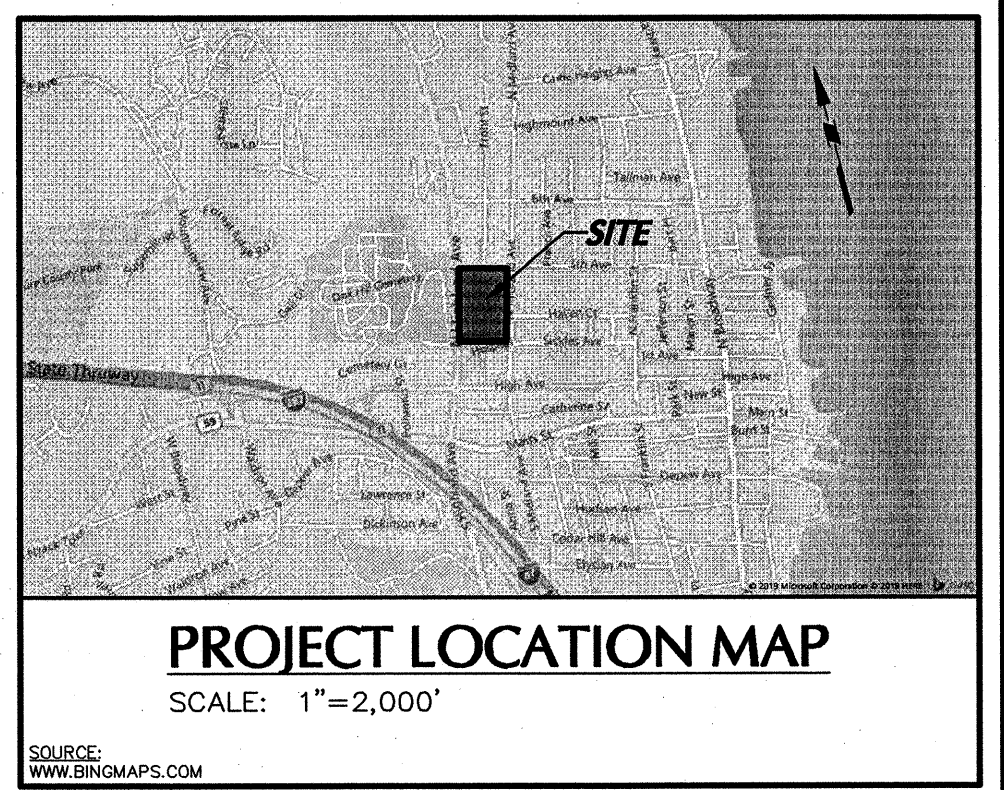
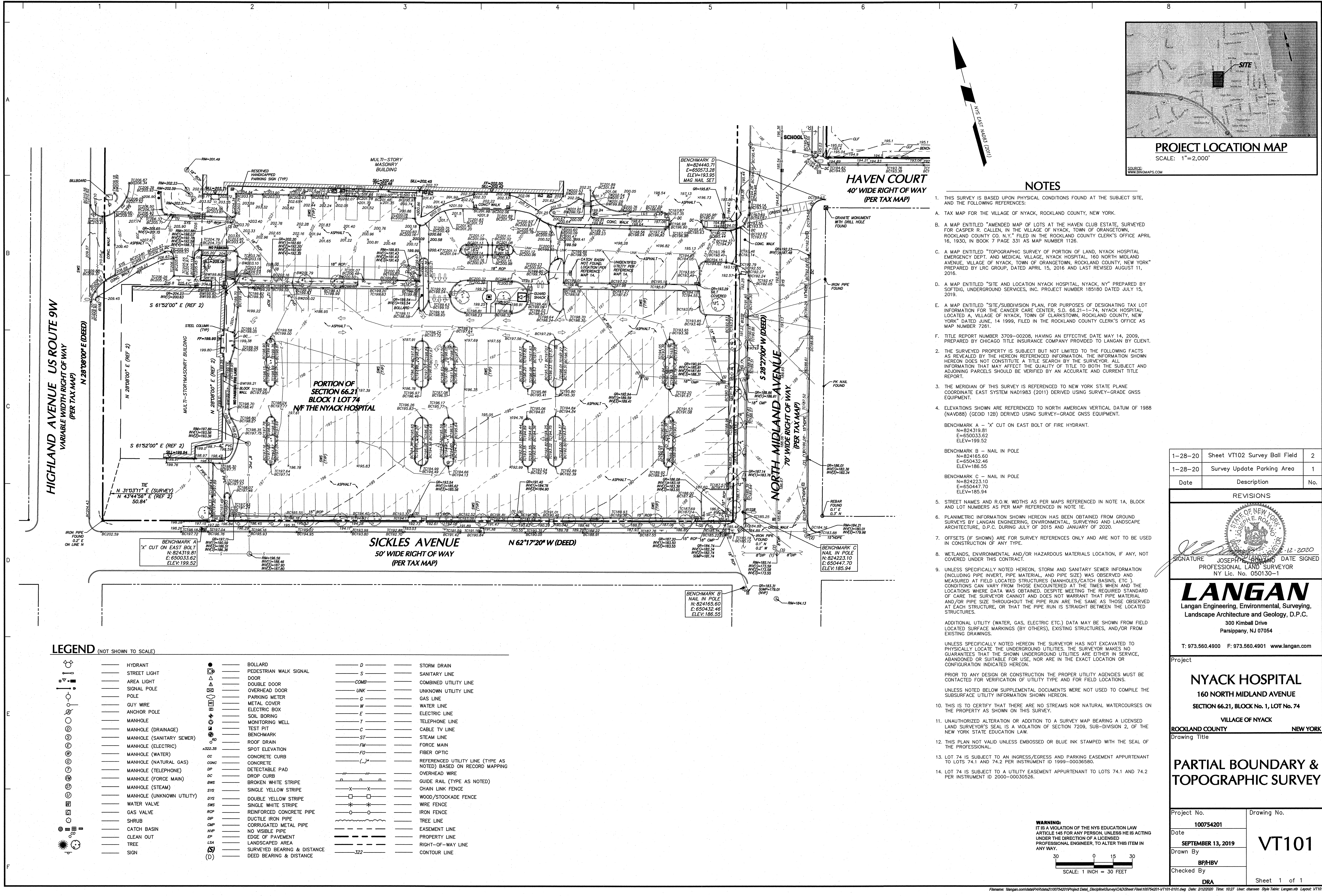
LANGAN		DATE	LAST REVISED
CS001	COVER SHEET	02.12.2020	03.17.2020
VT101	PARTIAL BOUNDARY & TOPOGRAPHIC SURVEY	09.13.2019	03.17.2020
CD101	DEMOLITION PLAN	03.17.2020	
CS100	OVERALL SITE PLAN	02.12.2020	03.17.2020
CS101	SITE PLAN	02.12.2020	03.17.2020
CG101	GRADING PLAN	02.12.2020	03.17.2020
CG102	DRAINAGE AND UTILITY PLAN	03.17.2020	
CE101	SOIL EROSION & SEDIMENT CONTROL PLAN	03.17.2020	
CE501	SOIL EROSION & SEDIMENT CONTROL DETAILS & NOTES	03.17.2020	
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CS503	CONSTRUCTION DETAILS III	03.17.2020	

LAST REV.: 03/17/2020  
DATE: 02/12/2020  
Drawing No.

CS001

WARNING:  
IT IS A VIOLATION OF THE NYS EDUCATION LAW  
ARTICLE 146 FOR ANY PERSON, UNLESS HE IS ACTING  
UNDER THE DIRECTION OF A LICENSED  
PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN  
ANY WAY.





- ### NOTES
- THIS SURVEY IS BASED UPON PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, AND THE FOLLOWING REFERENCES:
    - TAX MAP FOR THE VILLAGE OF NYACK, ROCKLAND COUNTY, NEW YORK.
    - A MAP ENTITLED "AMENDED MAP OF LOTS AT THE HAVEN CLUB ESTATE, SURVEYED FOR CASPER R. CALLEN, IN THE VILLAGE OF NYACK, TOWN OF ORANGETOWN, ROCKLAND COUNTY CO. N.Y." FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE APRIL 16, 1930, IN BOOK 7 PAGE 331 AS MAP NUMBER 1126.
    - A MAP ENTITLED "TOPOGRAPHIC SURVEY OF PORTION OF LAND, NYACK HOSPITAL EMERGENCY DEPT. AND MEDICAL VILLAGE, NYACK HOSPITAL, 160 NORTH MIDLAND AVENUE, VILLAGE OF NYACK, TOWN OF ORANGETOWN, ROCKLAND COUNTY, NEW YORK" PREPARED BY LRC GROUP, DATED APRIL 15, 2016 AND LAST REVISED AUGUST 11, 2016.
    - A MAP ENTITLED "SITE AND LOCATION NYACK HOSPITAL, NYACK, NY" PREPARED BY SOTDIO, UNDERGROUND SERVICES, INC. PROJECT NUMBER 185180 DATED JULY 15, 2019.
    - A MAP ENTITLED "SITE/SUBDIVISION PLAN, FOR PURPOSES OF DESIGNATING TAX LOT INFORMATION FOR THE CANCER CARE CENTER, S.D. 66.21-1-74, NYACK HOSPITAL, LOCATED A, VILLAGE OF NYACK, TOWN OF CLARKSTOWN, ROCKLAND COUNTY, NEW YORK" DATED JUNE, 14 1999, FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE AS MAP NUMBER 7261.
    - TITLE REPORT NUMBER 3709-00208, HAVING AN EFFECTIVE DATE MAY 14, 2009, PREPARED BY CHICAGO TITLE INSURANCE COMPANY PROVIDED TO LANGAN BY CLIENT.
  - THE SURVEYED PROPERTY IS SUBJECT BUT NOT LIMITED TO THE FOLLOWING FACTS AS REVEALED BY THE HEREON REFERENCED INFORMATION. THE INFORMATION SHOWN HEREON DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. A TITLE SEARCH BY THE INFORMATION THAT MAY AFFECT THE QUALITY OF TITLE TO BOTH THE SUBJECT AND ADJOINING PARCELS SHOULD BE VERIFIED BY AN ACCURATE AND CURRENT TITLE REPORT.
  - THE MERIDIAN OF THIS SURVEY IS REFERENCED TO NEW YORK STATE PLANE COORDINATE EAST SYSTEM NAD1983 (2011) DERIVED USING SURVEY-GRADE GNSS EQUIPMENT.
  - ELEVATIONS SHOWN ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) (GEOID 12B) DERIVED USING SURVEY-GRADE GNSS EQUIPMENT.

BENCHMARK A - "X" CUT ON EAST BOLT OF FIRE HYDRANT.  
N=824319.81  
E=650033.62  
ELEV=199.52

BENCHMARK B - NAIL IN POLE  
N=824165.60  
E=650432.46  
ELEV=186.55

BENCHMARK C - NAIL IN POLE  
N=824223.10  
E=650447.70  
ELEV=185.94
  - STREET NAMES AND R.O.W. WIDTHS AS PER MAPS REFERENCED IN NOTE 1A, BLOCK AND LOT NUMBERS AS PER MAP REFERENCED IN NOTE 1E.
  - PLANIMETRIC INFORMATION SHOWN HEREON HAS BEEN OBTAINED FROM GROUND SURVEYS BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING AND LANDSCAPE ARCHITECTURE, D.P.C. DURING JULY OF 2015 AND JANUARY OF 2020.
  - OFFSETS (IF SHOWN) ARE FOR SURVEY REFERENCES ONLY AND ARE NOT TO BE USED IN CONSTRUCTION OF ANY TYPE.
  - WETLANDS, ENVIRONMENTAL AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, NOT COVERED UNDER THIS CONTRACT.
  - UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC.). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND THE LOCATIONS WHERE DATA WAS OBTAINED, DESPITE MEETING THE REQUIRED STANDARD OF CARE THE SURVEYOR CANNOT AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES.
  - ADDITIONAL UTILITY (WATER, GAS, ELECTRIC ETC.) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY OTHERS), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS.
  - UNLESS SPECIFICALLY NOTED HEREON, THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON.
  - THIS IS TO CERTIFY THAT THERE ARE NO STREAMS NOR NATURAL WATERCOURSES ON THE PROPERTY AS SHOWN ON THIS SURVEY.
  - UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.
  - THIS PLAN NOT VALID UNLESS EMBOSSED OR BLUE INK STAMPED WITH THE SEAL OF THE PROFESSIONAL.
  - LOT 74 IS SUBJECT TO AN INGRESS/EGRESS AND PARKING EASEMENT APPURTENANT TO LOTS 74.1 AND 74.2 PER INSTRUMENT ID 1999-00036580.
  - LOT 74 IS SUBJECT TO A UTILITY EASEMENT APPURTENANT TO LOTS 74.1 AND 74.2 PER INSTRUMENT ID 2000-00030526.

LEGEND (NOT SHOWN TO SCALE)			
	HYDRANT		STORM DRAIN
	STREET LIGHT		SANITARY LINE
	AREA LIGHT		COMBINED UTILITY LINE
	SIGNAL POLE		UNKNOWN UTILITY LINE
	POLE		GAS LINE
	GUY WIRE		WATER LINE
	ANCHOR POLE		ELECTRIC LINE
	MANHOLE		TELEPHONE LINE
	MANHOLE (DRAINAGE)		CABLE TV LINE
	MANHOLE (SANITARY SEWER)		STEAM LINE
	MANHOLE (ELECTRIC)		FORCE MAIN
	MANHOLE (WATER)		FIBER OPTIC
	MANHOLE (NATURAL GAS)		REFERENCED UTILITY LINE (TYPE AS NOTED) BASED ON RECORD MAPPING
	MANHOLE (TELEPHONE)		OVERHEAD WIRE
	MANHOLE (FORCE MAIN)		GUIDE RAIL (TYPE AS NOTED)
	MANHOLE (STEAM)		CHAIN LINK FENCE
	MANHOLE (UNKNOWN UTILITY)		WOOD/STOCKADE FENCE
	WATER VALVE		WIRE FENCE
	GAS VALVE		IRON FENCE
	SHRUB		TREE LINE
	CATCH BASIN		EASEMENT LINE
	CLEAN OUT		PROPERTY LINE
	TREE		RIGHT-OF-WAY LINE
	SIGN		CONTOUR LINE

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30 0 15 30  
SCALE: 1 INCH = 30 FEET

1-28-20	Sheet VT102 Survey Ball Field	2
1-28-20	Survey Update Parking Area	1
Date	Description	No.
REVISIONS		
SIGNATURE: JOSEPH P. LANGAN DATE SIGNED: 12-2020		
PROFESSIONAL LAND SURVEYOR NY Lic. No. 050130-1		

**LANGAN**  
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.  
300 Kimball Drive  
Parsippany, NJ 07054  
T: 973.560.4900 F: 973.560.4901 www.langan.com

Project  
**NYACK HOSPITAL**  
160 NORTH MIDLAND AVENUE  
SECTION 66.21, BLOCK No. 1, LOT No. 74  
VILLAGE OF NYACK  
ROCKLAND COUNTY NEW YORK

Drawing Title  
**PARTIAL BOUNDARY & TOPOGRAPHIC SURVEY**

Project No.	100754201	Drawing No.	VT101
Date	SEPTEMBER 13, 2019	Drawn By	BPH/IBV
Checked By	DRA	Sheet 1 of 1	

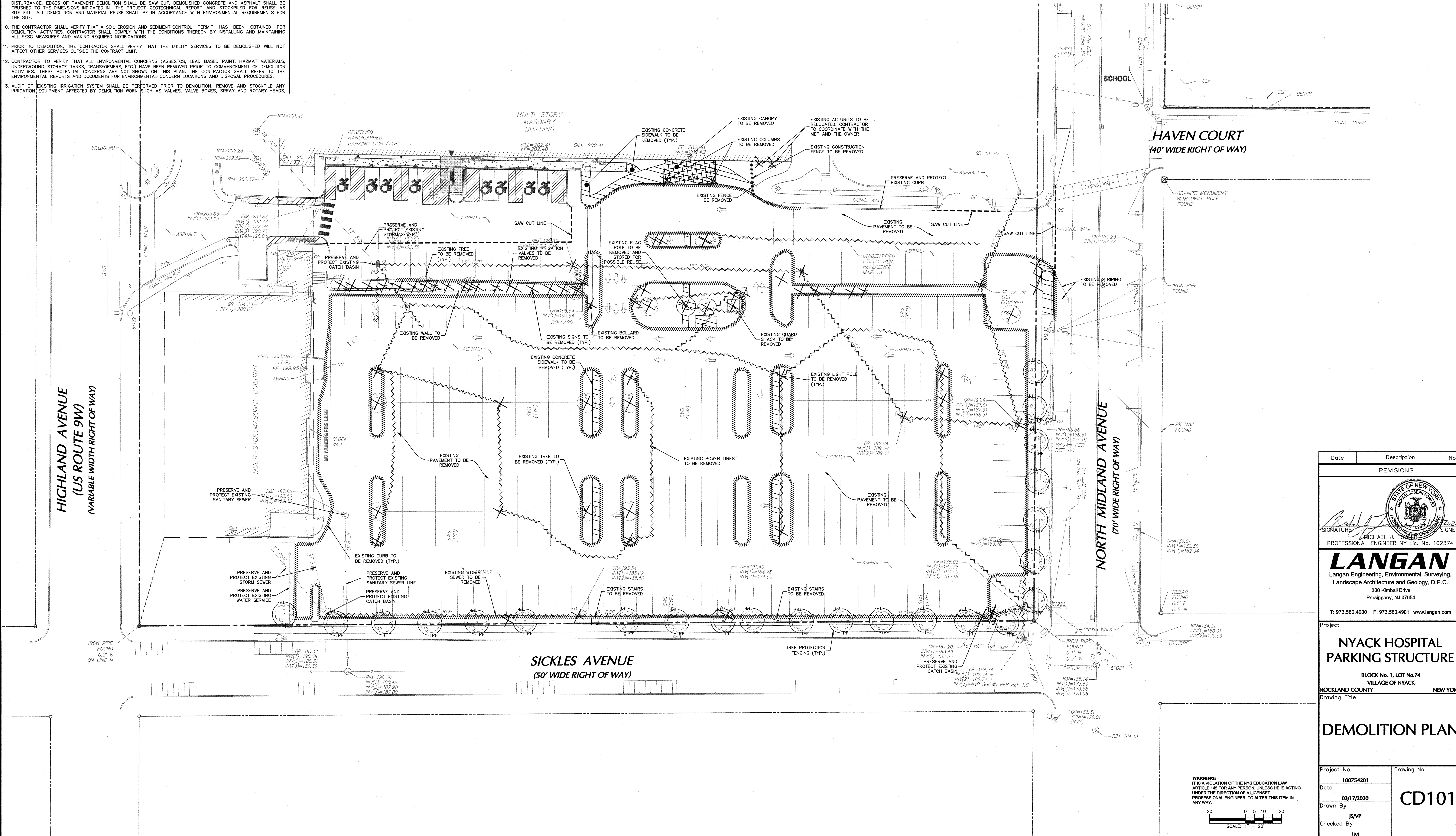


DEMOLITION NOTES

- EXISTING EXISTING BOUNDARY AND TOPOGRAPHY INFORMATION IS BASED ON PLAN TITLED "EXISTING CONDITIONS PLAN", PREPARED BY LRC GROUP, DATED 08/22/2016, AND FIELD DATA OBTAINED BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C. ON 1/23/2020.
- ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- THE MERIDIAN OF THE SURVEY IS REFERENCED TO NEW YORK STATE PLANE COORDINATE EAST SYSTEM NAD1983 (2011) DERIVED USING SURVEY-GRADE GNSS EQUIPMENT.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBS, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON PLANS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS, AND SUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS.
- EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE, AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES BEFORE DEMOLITION.
- CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATION, ORDINANCES, AND STATUTES.
- THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE WORK.
- UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT, OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES, OR POLLUTANTS AT THE PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS, DAMAGE, EXPENSE, DELAY, INJURY, OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OF ANY TYPE WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVERY, REMOVAL, ABATEMENT, OR DISPOSAL OF ASBESTOS OR OTHER HAZARDOUS MATERIALS.
- THE CONTRACTOR SHALL DEMOLISH ALL BUILDINGS, PAVEMENT, ETC., WHERE INDICATED WITHIN THE LIMIT OF DISTURBANCE. EDGES OF PAVEMENT DEMOLITION SHALL BE SAW CUT. DEMOLISHED CONCRETE AND ASPHALT SHALL BE CRUSHED TO THE DIMENSIONS INDICATED IN THE PROJECT GEOTECHNICAL REPORT AND STOCKPILED FOR REUSE. AS SITE FILL. ALL DEMOLITION AND MATERIAL REUSE SHALL BE IN ACCORDANCE WITH ENVIRONMENTAL REQUIREMENTS FOR THE SITE.
- THE CONTRACTOR SHALL VERIFY THAT A SOIL EROSION AND SEDIMENT CONTROL PERMIT HAS BEEN OBTAINED FOR DEMOLITION ACTIVITIES. CONTRACTOR SHALL COMPLY WITH THE CONDITIONS THEREON BY INSTALLING AND MAINTAINING ALL SSC MEASURES AND MAKING REQUIRED NOTIFICATIONS.
- PRIOR TO DEMOLITION, THE CONTRACTOR SHALL VERIFY THAT THE UTILITY SERVICES TO BE DEMOLISHED WILL NOT AFFECT OTHER SERVICES OUTSIDE THE CONTRACT LIMIT.
- CONTRACTOR TO VERIFY THAT ALL ENVIRONMENTAL CONCERNS (ASBESTOS, LEAD BASED PAINT, HAZMAT MATERIALS, UNDERGROUND STORAGE TANKS, TRANSFORMERS, ETC.) HAVE BEEN REMOVED PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITIES. THESE POTENTIAL CONCERNS ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR SHALL REFER TO THE ENVIRONMENTAL REPORTS AND DOCUMENTS FOR ENVIRONMENTAL CONCERN LOCATIONS AND DISPOSAL PROCEDURES.
- AUDIT OF EXISTING IRRIGATION SYSTEM SHALL BE PERFORMED PRIOR TO DEMOLITION. REMOVE AND STOCKPILE ANY IRRIGATION EQUIPMENT AFFECTED BY DEMOLITION WORK SUCH AS VALVES, VALVE BOXES, SPRAY AND ROTARY HEADS.

LEGEND

- STRUCTURE/ WALL TO BE REMOVED
- ASPHALT PAVEMENT TO BE REMOVED
- EXISTING SIDEWALK TO BE REMOVED
- EXISTING CURBS TO BE REMOVED
- EXISTING FENCE TO BE REMOVED
- ITEM TO BE REMOVED (TREE, LIGHT POLE, VALVE, ETC.)
- ITEM TO BE RELOCATED (TREE, LIGHT POLE, VALVE, ETC.)
- UTILITY AND STORM PIPE TO BE REMOVED
- TREE PROTECTION FENCING



Date	Description	No.
REVISIONS		
SIGNATURE: MICHAEL J. LANGAN, PROFESSIONAL ENGINEER NY Lic. No. 102374		
<b>LANGAN</b> Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054 T: 973.560.4900 F: 973.560.4901 www.langan.com		
Project: <b>NYACK HOSPITAL PARKING STRUCTURE</b> BLOCK No. 1, LOT No. 74 VILLAGE OF NYACK ROCKLAND COUNTY NEW YORK		
Drawing Title: <b>DEMOLITION PLAN</b>		

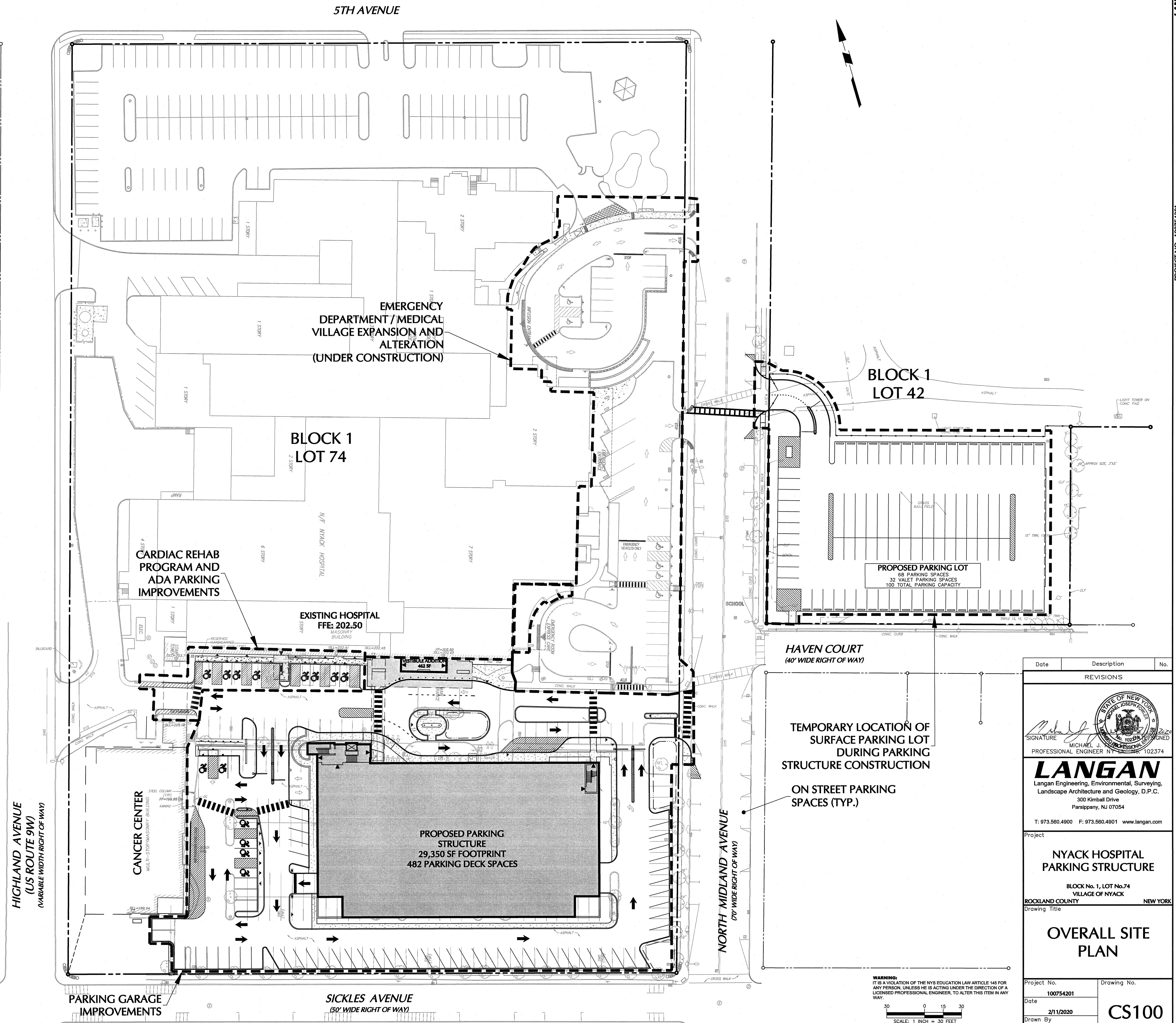
Project No.	Drawing No.
100754201	CD101
Date	
03/17/2020	
Drawn By	
JSVP	
Checked By	
LM	

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ANY WAY.

SCALE: 1" = 20'



1. EXISTING BOUNDARY AND TOPOGRAPHY INFORMATION IS BASED ON PLAN TITLED "EXISTING CONDITIONS PLAN", PREPARED BY LRC GROUP, DATED 08/24/2016, AND FIELD DATA OBTAINED BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C. ON 1/23/2020.
2. EXISTING PLANIMETRIC INFORMATION SHOWN HEREON REFERENCE THE PLAN TITLED "SITE PLAN", PREPARED BY LRC GROUP, DATED 08/22/2016.
3. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
4. PROPOSED HOSPITAL CANOPY ADDITION SHOWN ARE PER AN ARCHITECTURAL PLAN TITLED "MONTEFIORE HEALTH SYSTEM NYACK CAMPUS, CARDIAC REHAB PROGRAM", PREPARED BY POMARICO DESIGN STUDIO ARCHITECTURE, PLLC, DATED 05/15/2019.
5. PROPOSED PARKING GARAGE, MAIN HOSPITAL ENTRANCE EXPANSION AND PEDESTRIAN BRIDGE SHOWN ARE PER ARCHITECTURAL PLANS TITLED "MONTEFIORE HEALTH SYSTEM NYACK CAMPUS, PARKING STRUCTURE", PREPARED BY POMARICO DESIGN STUDIO ARCHITECTURE, PLLC, DATED 01/31/2020.
6. PROPOSED EMERGENCY DEPARTMENT / MEDICAL VILLAGE EXPANSION AND ALTERATION SHOWN ARE PER ARCHITECTURAL PLANS TITLED "NYACK HOSPITAL, EMERGENCY DEPARTMENT / MEDICAL VILLAGE EXPANSION AND ALTERATION", PREPARED BY POMARICO DESIGN STUDIO ARCHITECTURE, PLLC, DATED 08/24/2016, LAST REVISED 10/31/2017.
7. PROPOSED LOCATION OF SURFACE PARKING LOT IS SHOWN PER ARCHITECTURAL PLANS TITLED "PROPOSED LOCATION OF SURFACE PARKING LOT" PREPARED BY POMARICO DESIGN STUDIO ARCHITECTURE, PLLC, DATED 06/12/2018.

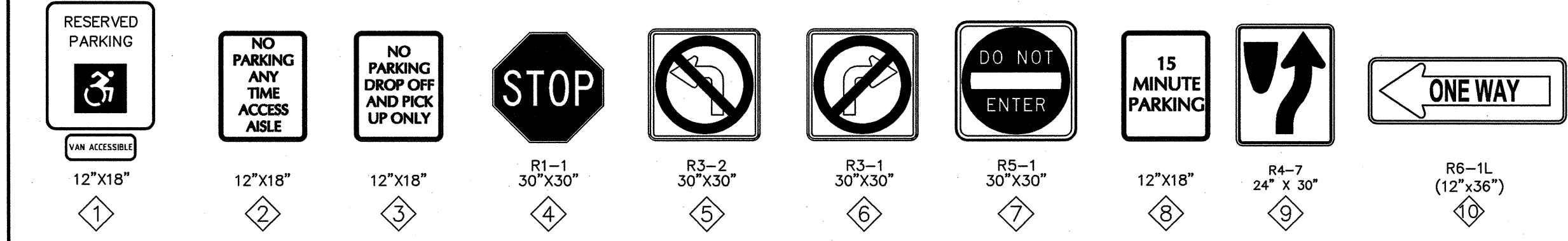




## SITE PLAN NOTES

- EXISTING BOUNDARY AND TOPOGRAPHY INFORMATION IS BASED ON FIELD DATA OBTAINED BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECT AND GEOLOGY, D.P.C. ON 1/23/2020.
- ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- THE MERIDIAN OF THE SURVEY IS REFERENCED TO NEW YORK STATE PLANE COORDINATE EAST SYSTEM NAD1983 (2011) DERIVED USING SURVEY-GRADE GNSS EQUIPMENT.
- PROPOSED PARKING GARAGE, MAIN HOSPITAL ENTRANCE EXPANSION AND PEDESTRIAN BRIDGE SHOWN ARE PER ARCHITECTURAL PLANS TITLED "MONTEFIORE HEALTH SYSTEM NYACK CAMPUS - PARKING STRUCTURE" PREPARED BY POMARICO DESIGN STUDIO ARCHITECTURE, PLLC, DATED 01/31/2020.
- THE CONTRACTOR SHALL, WHEN HE/SHE DEEMS NECESSARY, PROVIDE A WRITTEN REQUEST FOR INFORMATION (RFI) TO THE OWNER AND/OR OWNER'S DESIGNATED REPRESENTATIVE, AND ENGINEER PRIOR TO THE CONSTRUCTION OF ANY SPECIFIC SITEWORK ITEM. THE (RFI) SHALL BE IN A FORM ACCEPTABLE TO OWNER AND/OR OWNER'S DESIGNATED REPRESENTATIVE, AND ENGINEER AND SHALL ALLOW FOR A MINIMUM OF THREE WORK DAYS FOR A WRITTEN REPLY. RFIS SHALL BE NUMBERED CONSECUTIVELY BY DATE SUBMITTED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITEWORK ITEMS CONSTRUCTED DIFFERENTLY THAN INTENDED OR AS DEPICTED ON THE PLANS.
- THERE ARE ADDITIONAL NOTES AND REQUIREMENTS CONTAINED THROUGHOUT THE PLAN SET AS WELL AS REFERENCES TO SPECIFICATIONS FROM APPLICABLE GOVERNING AUTHORITIES AND INDUSTRY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, REVIEW, AND ADHERE TO ALL THESE DOCUMENTS.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- THE CONTRACTOR SHALL SCHEDULE AND COORDINATE HIS OPERATIONS WITH THE VARIOUS COMPANIES OR AGENCIES WHOSE INTERESTS ARE AFFECTED BY THIS PROJECT.
- THE SITE CONTRACTOR SHALL USE CARE DURING CONSTRUCTION TO AVOID DISTURBING OR DAMAGING ANY AND ALL UTILITIES, FACILITIES AND PAVEMENTS INTENDED TO REMAIN. IT SHALL BE THE SITE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE TO AND/OR RESTORE ANY INTERRUPTION TO ANY UTILITY SERVICE THAT MAY BE CAUSED BY THE SITE CONTRACTOR'S CONSTRUCTION OR EQUIPMENT, AT THE SITE CONTRACTOR'S EXPENSE, WITH NO ADDITIONAL EXPENSE TO THE OWNER. SIMILARLY, ANY DAMAGE TO FACILITIES OR PAVEMENTS WILL BE THE SITE CONTRACTOR'S RESPONSIBILITY AND SHALL BE RESTORED TO THE SATISFACTION OF, AND AT NO ADDITIONAL COST TO, THE OWNER.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY AND STATE LAWS.
- INFORMATION RELATED TO ELEVATIONS AND PROPOSED UTILITIES (SUCH AS ROADWAY GRADES, INVERT ELEVATIONS, RIM ELEVATIONS, GRATE ELEVATIONS, BUILDING FINISHED FLOOR ELEVATIONS, ETC.) MAY BE FOUND IN MORE THAN ONE LOCATION IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL SUFFICIENTLY REVIEW ALL PLANS IN THE CONTRACT DOCUMENTS FOR CONSISTENCY PRIOR TO BID. ANY INCONSISTENCIES OR DISCREPANCIES THAT ARE FOUND BY THE CONTRACTOR OR HIS ASSIGNS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IN WRITING, IN THE FORMAT OF AN RFI PRIOR TO BID.
- CONTRACTOR IS SPECIFICALLY CAUTIONED THAT ALL CONSTRUCTION STAKEOUT FOR THIS PROJECT MUST BE COMPLETED FROM THE SITE SPECIFIC SURVEY CONTROL (HORIZONTAL AND VERTICAL) UPON WHICH THE DESIGN IS BASED. THE CONTRACTOR SHOULD NOT RELY ON OR RE-ESTABLISH SURVEY CONTROL BY GPS OR OTHER METHODS FOR USE IN CONSTRUCTION STAKEOUT OR ANY OTHER PURPOSE FOR THIS PROJECT. ANY DISCREPANCIES BETWEEN THE EXISTING HORIZONTAL OR VERTICAL DATA SHOWN ON THESE DRAWINGS AND THAT ENCOUNTERED IN THE FIELD MUST BE REPORTED TO THE DESIGN TEAM PRIOR TO CONSTRUCTION FOR RESOLUTION.
- WHERE APPLICABLE, REMOVAL AND DISPOSAL OF THE EXISTING BUILDING FOUNDATIONS, MANHOLES, CATCH BASINS, UNDERGROUND PIPING, PAVEMENT MATERIALS, ETC. SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE STANDARDS.
- UNLESS OTHERWISE NOTED TO REMAIN, ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE BY THE CONTRACTOR.

## SIGN LEGEND



## LEGEND

	EXISTING	PROPOSED
PROPERTY LINE	---	---
BUILDING LINE	---	---
BUILDING ENTRY/EXIT	---	---
CURB LINE	---	---
ADA ACCESSIBLE RAMP	---	---
PARKING COUNT	---	---
SUB-TOTAL	---	---
RETAINING WALL	---	---
CONCRETE SIDEWALK	---	---
GUIDE RAIL	---	---
BOLLARD	---	---
FLAG POLE IN STONE ISLAND	---	---

PARKING GARAGE HEIGHT CALCULATION	
PARKING GARAGE TO TOP OF PARAPET WALL ELEV.	254.67
AVG. GRADE AT 4-CORNERS OF PARKING GARAGE (GRADE PLANE)	196.12
PARKING GARAGE HEIGHT INCLUDING PARAPET (FT)	58.55
LESS PARAPET HEIGHT (42-IN)	3.5
HEIGHT OF PARKING GARAGE PER ORDINANCE (FT)	55.05
* ORDINANCE SECTION 360-4.2, C, (2)(C) EXCLUDES PARAPET WALLS IF LESS THAN 4-FT	

VILLAGE OF NYACK - ZONING STATISTICS TABLE  
ZONING DISTRICT: HOSPITAL

16 NORTH MIDLAND AVE. BLOCK 1, LOT 74 (TAX MAP 66.21) VILLAGE OF NYACK, NEW YORK 10980 H DISTRICT (HOSPITAL DISTRICT)							LAST REV: 5/13/2020	
CODE SECTION	DESCRIPTION	REQUIRED / PERMITTED	EXISTING (NOTE 2)	PROPOSED				
SECTION 360 - ZONING DISTRICT REGULATIONS								
\$360.2.25.D	PRINCIPAL USE	HOSPITAL	HOSPITAL	HOSPITAL/PARKING DECK		C		
\$360 TABLE 4-1	MAX. BUILDING HEIGHT (STORIES)	3 1/2 STORIES 6 STORIES WITH ADDITIONAL SETBACK (NOTE 3)	6 (HOSPITAL)	4.5 STORIES (PARKING DECK)		C		
\$360 TABLE 4-1	MAX. BUILDING HEIGHT (FEET)	45 FT 72FT WITH ADDITIONAL SETBACK (NOTE 3)	72 FT (HOSPITAL)	55.05 FT (PARKING DECK)		C		
\$360 TABLE 4-1	MIN. LOT AREA	40,000 SF	376,216 SF	NO CHANGE		C		
\$360 TABLE 4-1	MIN. LOT WIDTH	200 FT	757 FT	NO CHANGE		C		
\$360 TABLE 4-1	MIN. LOT DEPTH	200 FT	495 FT	NO CHANGE		C		
\$360 TABLE 4-1	MIN. FRONT YARD SETBACK (FACING RESIDENCE) EXISTING MIDLAND AVE.	25	71 FT (HOSPITAL) 52.75 FT (CANOPY) 209.8 FT	NO CHANGE		C		
	SICKLES AVE.		49.3 FT (CANCER CENTER) 106.3 FT					
	FIFTH AVE.							
\$360 TABLE 4-1	PARKING DECK MIDLAND AVE. SICKLES AVE.	35.6 (NOTE 3)	-	62.8 FT (PARKING DECK) 45.0 FT (PARKING DECK)		C		
\$360 TABLE 4-1	MIN. FRONT YARD SETBACK HIGHLAND AVE.	15	39.92 FT (JOHNSON PAVILION) 15.3 FT (CANCER CENTER)	NO CHANGE		C		
\$360 TABLE 4-1	MAX. FLOOR AREA RATIO	1.2	1.12	NO CHANGE		C		
SECTION \$360 TABLE 4-2 - MINIMUM PARKING REQUIREMENTS								
\$25-12.2	MIN. REQUIRED NUMBER OF PARKING SPACES	528 (NOTE 1)	611 (Note 4)	895 (Note 5)		C		

C - COMPLIES

W - WAIVER

\* - EXISTING NONCONFORMITY

# - NO CHANGE TO EXISTING NON-CONFORMITY

V - PROPOSED VARIANCE

NOTES:

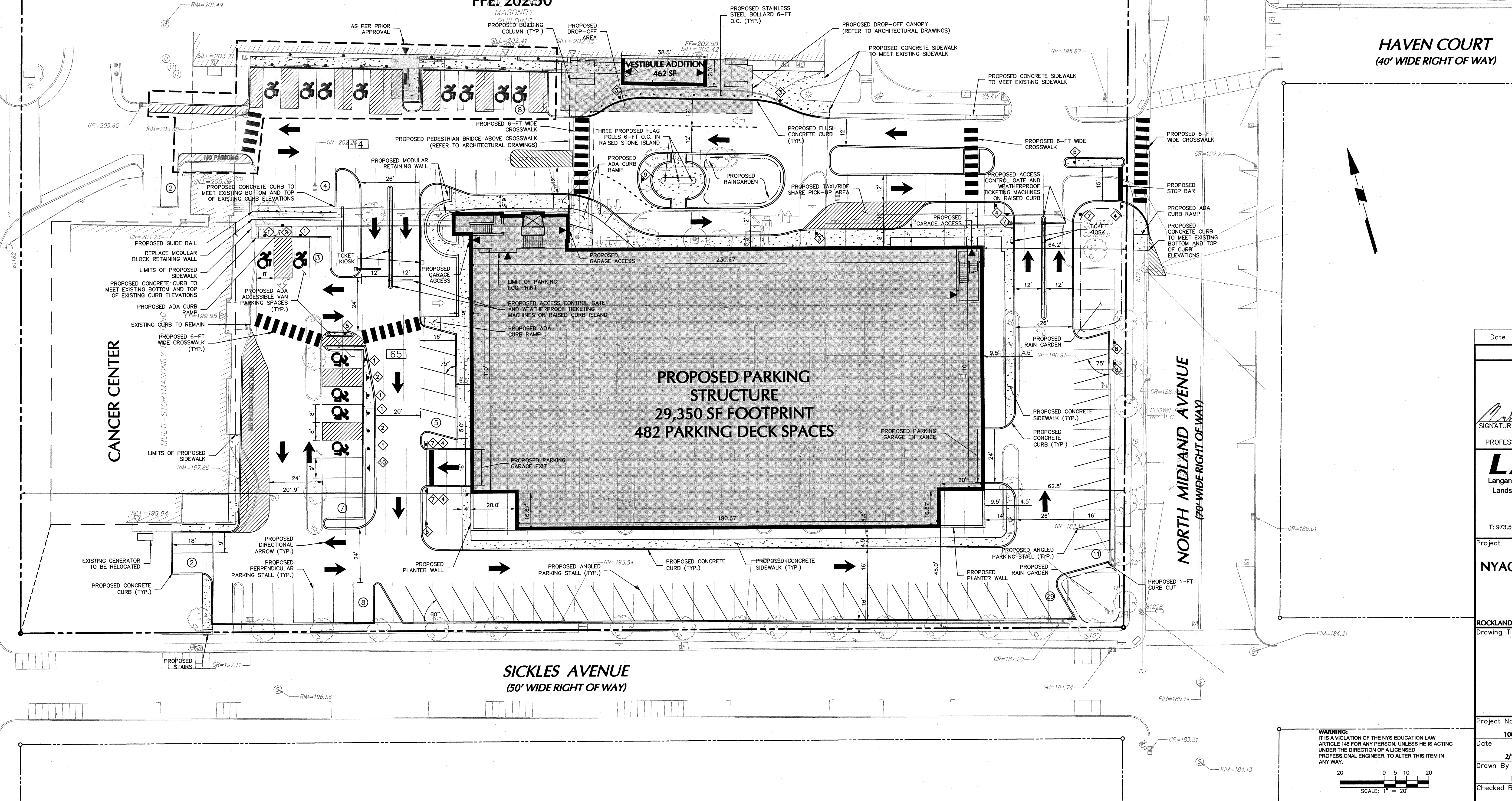
1. PARKING COUNT BASED ON HOSPITAL AND CLINIC USE: 1 SPACE/ 1 BED = 210 BEDS/1 = 210 SPACES; 1 SPACE/ 2 EMPLOYEES = 636/ 2 = 318 SPACES AS PER HOSPITAL CORRESPONDENCE DATED 2019-17.

2. ALL EXISTING ZONING STATISTICS, EXCEPT PARKING, ARE BASED ON SITE PLAN PREPARED BY LRC GROUP, DATED 2016-8-22.

3. BUILDING HEIGHT IN THE HOSPITAL ZONE IS ALLOWED TO EXCEED 40 FT IF AN ADDITIONAL ONE FOOT OF SETBACK IS PROVIDED FOR EVERY TWO FEET OF HEIGHT OVER 40 FT UP TO A MAXIMUM OF 72 FT AND 6 STORIES.

4. INCLUDES 372 ON-SITE SPACES, 172 OFF-SITE HOSPITAL OWNED SPACES, AND 67 SPACES AT NEARBY SYNOGOGUE

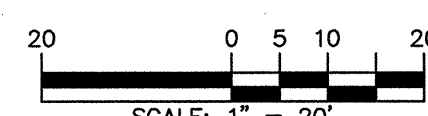
5. INCLUDES 723 ON-SITE SPACES AND 172 OFF-SITE HOSPITAL OWNED SPACES

EXISTING HOSPITAL  
FFE: 202.50

Date	Description	No.
REVISIONS		
<b>LANGAN</b> Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054 T: 973.560.4900 F: 973.560.4901 www.langan.com		
Project <b>NYACK HOSPITAL PARKING STRUCTURE</b> BLOCK No. 1, LOT No. 74 VILLAGE OF NYACK ROCKLAND COUNTY NEW YORK		
Drawing Title <b>SITE PLAN</b>		

Project No.	Drawing No.
100754201	CS101
Date 2/12/2020	
Drawn By BMW	
Checked By LM	

WARNING:  
IT IS A VIOLATION OF THE NYS EDUCATION LAW  
ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING  
UNDER THE DIRECTION OF A LICENSED  
PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN  
ANY WAY.



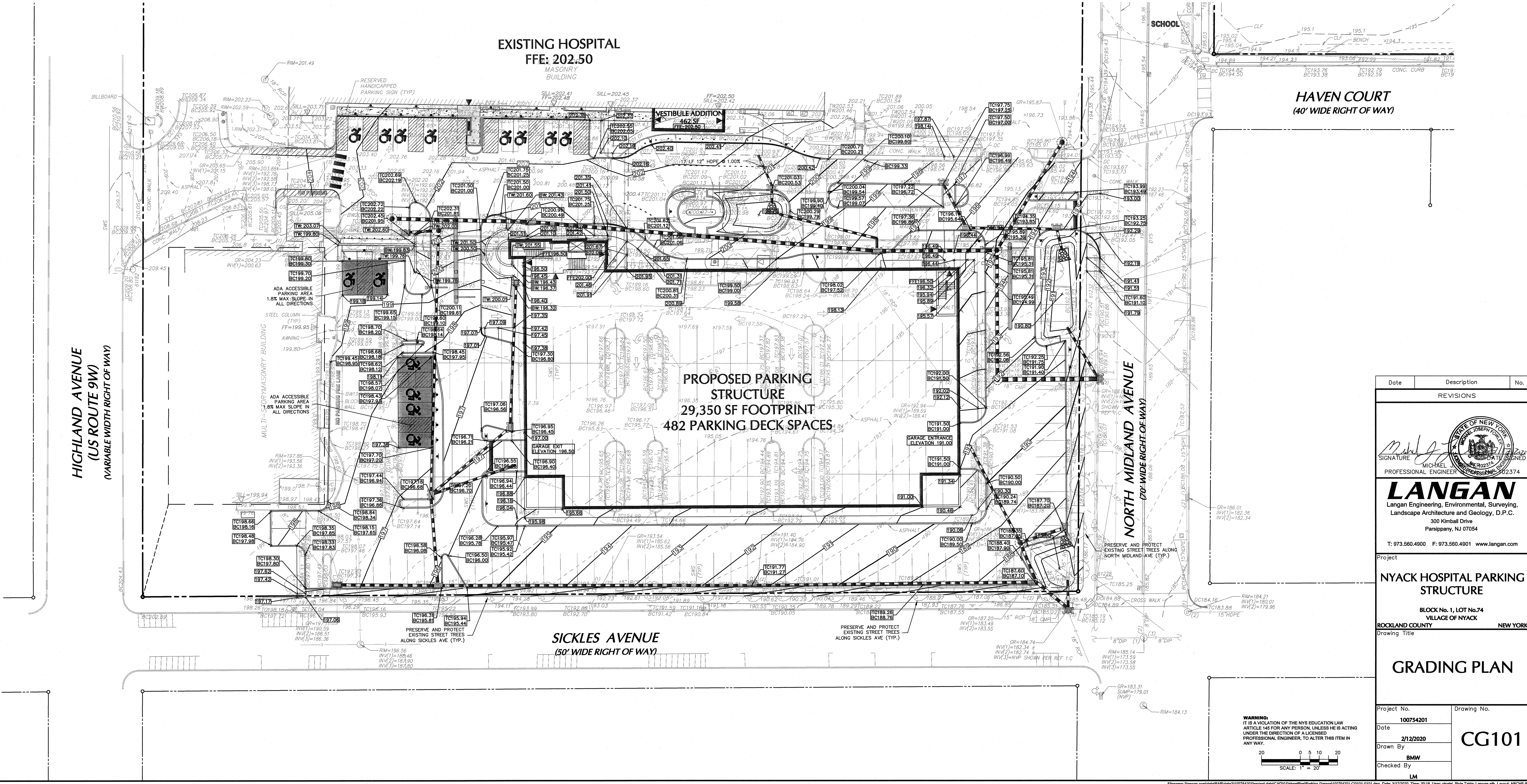


GRADING NOTES

- EXISTING BOUNDARY AND TOPOGRAPHY INFORMATION IS BASED ON FIELD DATA OBTAINED BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECT AND GEOLOGY, D.P.C. ON 1/23/2020.
- ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- THE MERIDIAN OF THE SURVEY IS REFERENCED TO NEW YORK STATE PLANE COORDINATE EAST SYSTEM NAD1983 (2011) DERIVED USING SURVEY-GRADE GNSS EQUIPMENT.
- PROPOSED PARKING GARAGE, MAIN HOSPITAL ENTRANCE EXPANSION AND PEDESTRIAN BRIDGE SHOWN ARE PER ARCHITECTURAL PLANS TITLED "MONTEFIORE HEALTH SYSTEM NYACK CAMPUS - PARKING STRUCTURE" PREPARED BY POMARCO DESIGN STUDIO ARCHITECTURE, PLLC, DATED 01/31/2020.
- ONCE EXISTING UTILITIES TO REMAIN ARE LOCATED, ANY POTENTIAL CONFLICTS WITH OTHER UTILITIES, RELOCATED UTILITY POLES, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL ALL THE APPROPRIATE UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAYS AT LEAST 72 HOURS BEFORE ANY EXCAVATION OR GRADING TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, UTILITY LOCATIONS, DEPTHS AND INVERTS PRIOR TO CONSTRUCTION. ANY CONDITIONS FOUND TO DIFFER FROM THOSE SHOWN BY THESE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF LANGAN ENGINEERING. CALL BEFORE YOU DIG- 1-800-272-1000.
- ADJUST ALL EXISTING AND PROPOSED UTILITY FRAMES, GRATES, MANHOLE COVERS, VALVE BOXES, ETC. TO BE FLUSH WITH THE PROPOSED SURFACE ELEVATIONS WITHIN THE LIMITS OF CONSTRUCTION.
- ALL PROPOSED ON-SITE UTILITIES TO BE INSTALLED UNDERGROUND. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- SITE FILL SHALL CONSIST OF MATERIAL FROM APPROVED ONSITE SOURCES OR APPROVED OFFSITE MATERIAL. THE GEOTECHNICAL ENGINEER WILL REVIEW AND APPROVE ALL MATERIALS.
- PROOF ROLL ALL CUT AREAS. PLACE AND COMPACT APPROVED FILL MATERIALS IN 12-INCH MAXIMUM LOOSE LIFTS USING AT LEAST 6 PASSES WITH, AT MINIMUM, A 5 TON STATIC DRUM WEIGHT VIBRATORY ROLLER. COMPACT TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
- PARKING LOT SUBGRADES SHALL BE FIRM AND NON-YIELDING. SOFT AREAS AND UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH APPROVED MATERIALS AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- PIPE BEDDING MATERIAL SHALL BE ASHTO NO. 67 PROCESSED SAND AND GRAVEL, FREE FROM DEBRIS, CLAY LUMPS, ORGANIC, OR OTHER DELETERIOUS MATERIALS, AND COMPLYING WITH THE FOLLOWING GRADATION REQUIREMENTS:  
SIEVE SIZE PERCENT PASSING (BY WEIGHT)  
1 INCH 100  
3/4 INCH 90-100  
3/8 INCH 10-55  
#4 0-10  
#8 0-5
- NO TOPSOIL SHALL BE REMOVED FROM THE SITE OR USED AS SPILL. REMOVED TOPSOIL MUST BE REDISTRIBUTED THROUGHOUT THE SITE AND UTILIZED AS SUCH.
- ANY STORMWATER FACILITIES SHOWN TO REMAIN SHOULD BE INSPECTED, REPAIRED AND CLEAN AS NECESSARY.
- STORMWATER MANAGEMENT FACILITIES SHALL BE MAINTAINED REGULARLY TO INSURE CONTINUAL FUNCTIONING OF THE SYSTEM AT DESIGN CAPACITY. SEE THE STORMWATER POLLUTION PREVENTION PLAN FOR MAINTENANCE SCHEDULE, INSTRUCTIONS AND PROCEDURES.
- ALL PROPOSED SIDEWALKS, CURB RAMPS, A.D.A.-ACCESSIBLE PARKING STALLS AND ROUTES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE A.D.A. REQUIREMENTS. THESE INCLUDE, BUT ARE NOT LIMITED TO MAXIMUM 2% CROSS SLOPE, MAXIMUM 5% RUNNING SLOPE AND MAXIMUM 8.33% (1:12) RAMP SLOPE.

LEGEND

	EXISTING	PROPOSED
PROPERTY LINE		
SPOT ELEVATION	x 201.50	114.09
CONTOUR	- 248 -	252
STORM MANHOLE		
CATCH BASIN		
STORM SEWER PIPE		



Date	Description	No.
REVISIONS		
SIGNATURE: MICHAEL JOSEPH LANGAN PROFESSIONAL ENGINEER		
<b>LANGAN</b> Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054 T: 973.560.4900 F: 973.560.4901 www.langan.com		
Project <b>NYACK HOSPITAL PARKING STRUCTURE</b> BLOCK No. 1, LOT No. 74 VILLAGE OF NYACK ROCKLAND COUNTY NEW YORK		
Drawing Title <b>GRADING PLAN</b>		
Project No. 100754201	Drawing No. <b>CG101</b>	
Date 2/12/2020	Drawn By <b>BMW</b>	
Checked By <b>LM</b>		

**WARNING:**  
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 148 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

SCALE: 1" = 20'



STORM DRAINAGE AND UTILITY NOTES

1. EXISTING BOUNDARY AND TOPOGRAPHY INFORMATION IS BASED ON FIELD DATA OBTAINED BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVING, LANDSCAPE ARCHITECT AND GEOLOGY, D.P.C. ON 1/23/2020.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. THE MERIDIAN OF THE SURVEY IS REFERENCED TO NEW YORK STATE PLANE COORDINATE EAST SYSTEM NAD83 (2011) DERIVED USING SURVEY-GRADE GNSS EQUIPMENT.
4. PROPOSED PARKING GARAGE, MAIN HOSPITAL ENTRANCE EXPANSION AND PEDESTRIAN BRIDGE SHOWN SHOWN ARE PER ARCHITECTURAL PLANS TITLED "MONTEFIORE HEALTH SYSTEM NYACK CAMPUS - PARKING STRUCTURE" PREPARED BY POMARCO DESIGN STUDIO ARCHITECTURE, PLLC, DATED 01/31/2020.
- GENERAL UTILITY NOTES:
- U1. THE CONTRACTOR IS ALERTED TO THE RULES AND REGULATIONS OF NEW YORK STATE CODE RULE 753 PROTECTION OF UNDERGROUND UTILITIES ALSO KNOWN AS INDUSTRIAL CODE 53 AND IS DIRECTED TO COMPLY WITH IT. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES ALONG THE LINE OF THE PROPOSED WORK THREE (3) WORKING DAY PRIOR TO CONSTRUCTION. CONTRACTORS SHALL NOT PROCEED WITH WORK IN STREETS WHERE UTILITIES HAVE NOT BEEN LOCATED AND MARKED BY UTILITY COMPANIES. CONTRACTOR SHALL CALL 811 TO REQUEST UTILITY MARKOUT PRIOR TO CONSTRUCTION. THE CONTRACTOR, FOR THE PURPOSE OF SAFETY, SHALL NOTIFY THE UTILITY COMPANIES INVOLVED IF ANY OF THEIR UTILITIES ARE EXPOSED AND/OR UNDERMINED DURING THE COURSE OF CONSTRUCTION. THE CITY SHALL NOT BE LIABLE FOR ANY COST INCURRED BY THE CONTRACTOR AS A RESULT OF THE COMPLIANCE, NONCOMPLIANCE OR IMPROPER COMPLIANCE BY THE FRANCHISED OPERATOR OF UNDERGROUND UTILITIES, WITH SUB PART 53-3 OF THE INDUSTRIAL CODE.
- U2. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE HIS OPERATIONS WITH THE VARIOUS COMPANIES OR AGENCIES WHOSE INTERESTS ARE AFFECTED BY THIS PROJECT.
- U3. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS IS BASED ON INFORMATION AVAILABLE WHEN THESE PLANS WERE PREPARED AND SHOULD BE CONSIDERED APPROXIMATE. EXACT LOCATIONS SHALL BE VERIFIED IN THE FIELD AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER MAKES NO GUARANTEE ALL SITE UTILITIES ARE SHOWN ON THIS PLAN. ANY UNEXPECTED BURIED UTILITIES SHALL BE COORDINATED WITH THE OWNER BEFORE REMOVAL.
- U4. CONTRACTOR IS RESPONSIBLE FOR ANY SHORING REQUIRED DURING EXCAVATION, WHICH SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS.
- U5. IN DISTURBED AREAS OUTSIDE THE PROPERTY LINE, CONTRACTOR SHALL NEATLY SAWCUT EDGES OF TRENCHES, MINIMIZE TRENCH WIDTH, AND RESTORE SURFACE COVER SECTIONS IN KIND UNLESS OTHERWISE SPECIFIED.
- U6. PAVEMENT RESTORATION WITHIN PUBLIC STREETS MUST BE PERFORMED IN ACCORDANCE WITH THE NYC DOT STANDARDS AND REGULATIONS UPON COMPLETION OF EACH RESPECTIVE PORTION OF UTILITY WORK.
- U7. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTION, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS AND SIZES, SUCH THAT CONFLICTS MAY BE AVOIDED. THESE TEST PITS SHALL BE EXCAVATED AT THE START OF CONSTRUCTION, PRIOR TO THE CONSTRUCTION OF ANY UTILITIES. THE CONTRACTOR WILL NOTIFY LANGAN 48 HOURS PRIOR TO THE TEST PIT EXCAVATION AND WILL PROVIDE THE ENGINEER WITH THE RESULTS OF THESE EXPLORATIONS WITHIN 24 HOURS OF THEIR COMPLETION.
- U8. PER THE GEOTECHNICAL REPORT, THE EXISTING SITE SOILS ARE CORROSIVE TO CAST IRON PIPE AND DUCTILE IRON PIPE. THE CONTRACTOR SHALL ENCASE ANY PROPOSED DUCTILE IRON PIPE IN POLYETHYLENE ENCASEMENT.
- U9. PER THE GEOTECHNICAL REPORT, FLEXIBLE CONNECTIONS MAY BE NECESSARY BETWEEN ON-GRADE-SUPPORTED UTILITIES AND BUILDING PILE-SUPPORTED UTILITIES. REFER TO MEAS PLANS FOR LOCATIONS AND DETAILS.

WATER SERVICE NOTES:

- W1. ALL WATER MAINS SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NYC DEP.
- W2. PRIOR TO STARTING WORK, THE CONTRACTOR SHALL SUBMIT IN WRITING THE NAMES OF ALL VENDORS AND MANUFACTURERS HE INTENDS TO USE. THE CONTRACTOR SHALL SUBMIT ONLY ONE (1) VENDOR OR MANUFACTURER FOR EACH PRODUCT THAT IS TO BE INCORPORATED IN THE CONTRACT. THE USE OF MULTIPLE VENDORS OR MANUFACTURERS TO SUPPLY THE SAME PRODUCT WILL BE PROHIBITED.
- W3. INSTALLER IS TO CONTACT THE NYC DEP CONSTRUCTION COMPLIANCE UNIT AT (718) 595-5188 TO GIVE TWO WEEKS ADVANCE NOTICE PRIOR TO INSTALLATION.
- W4. ALL WATER MAINS SHOWN ON THESE PLANS SHALL BE CLASS 52 CEMENT LINED DUCTILE IRON PIPE FOR 3" AND 4-INCH PIPES AND CLASS 56 CEMENT LINED DUCTILE IRON PIPE FOR PIPES LARGER THAN 4-INCHES, UNLESS OTHERWISE SPECIFIED. THE MANUFACTURER'S MARK, THE YEAR OF MANUFACTURE, THE LETTERS "WNSY", AND THE LETTERS "DI" OR "DUCTILE" SHALL BE CAST ON THE PIPE. ALL MARKINGS SHALL BE CLEAR AND LEGIBLE AND CAST NEAR THE BELL. PRIOR TO WET TAP, CONTRACTOR SHALL CONSULT WITH THE NYCDOP FOR COORDINATION. ALL DUCTILE IRON PIPES SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT.
- W4. COVER FROM TOP OF WATER MAIN TO FINISH GRADE SHALL BE AT LEAST FOUR FEET AND NOT MORE THAN FIVE FEET.
- W5. THE WATER MAIN PIPE TRENCH SHALL NOT BE BACKFILLED UNTIL THE PIPE, FITTINGS AND JOINTS HAVE PASSED THE OPEN TRENCH TEST. THE TEST MUST BE CONDUCTED AT STREET PRESSURE AND THE DEP MUST BE NOTIFIED PRIOR TO THE TEST TO CONFIRM THEIR INSPECTION REQUIREMENTS.
- W6. VALVE AND VALVE BOXES INSTALLED ON WATER MAINS SHALL MEET NYCDOP STANDARDS. VALVES SHALL BE DESIGNED FOR A MINIMUM OF 150 PSI WORKING PRESSURE AND SHALL BE NON-RISING STEM GATE VALVES THAT OPEN COUNTER-CLOCKWISE. ALL VALVES SHALL HAVE CAST INTEGRAL WITH EITHER THE BONNET OR BODY, THE LETTERS "WNSY", THE MANUFACTURER'S NAME MARK, MEET THE SIZE OF THE VALVE, THE YEAR OF MANUFACTURE, THE COUNTRY OF MANUFACTURE AND THE RATED PRESSURE. THE CASTING SHALL ALSO BEAR THE MARKINGS IDENTIFYING THE FOUNDRY SHOP, A STAMPED STAINLESS STEEL TAG SHOWING THE SERIAL NUMBER OF THE VALVE SHALL BE ATTACHED TO THE VALVE BODY OR BONNET. IN ADDITION, THE SERIAL NUMBER SHALL ALSO BE STAMPED LEGIBLY ON THE VALVE'S BONNET AND BODY. THERE SHALL BE A "HEAT" NUMBER FOR THE DGGC, BODY AND BONNET CAST IN 1/4-INCH HIGH RAISED LETTERS/NUMBERS.
- W7. ALL WATER MAINS SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA C600. THE CONTRACTOR SHALL PROVIDE TEST RESULTS TO THE OWNER.
- W8. ALL INSTALLED WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651.
- W9. NO CONNECTIONS CAN BE MADE TO THE WATER MAINS WITHOUT PRIOR DEP APPROVAL.
- W10. CONTRACTOR IS REQUIRED TO OBTAIN ALL WORK PERMITS PRIOR TO WATER MAIN CONSTRUCTION INCLUDING BUT NOT LIMITED TO NYCDOP WET TAP, MAIN TAPPING, AND NYCDOT STREET OPENING PERMITS.
- W11. WHERE A SHUTDOWN OF EXISTING CITY WATER MAIN IS NEEDED IN ORDER TO CONNECT AN INTERNAL WATER MAIN TO THE CITY MAIN, THE SHUTDOWN MUST BE REQUESTED AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE. TO SCHEDULE THE SHUTDOWN, INSTALLER HAS TO CONTACT TO NYCDOP LOCAL TAPPING OFFICE. CHARGES FOR SHUTDOWN WILL BE BASED ON THE DEPARTMENTS LABOR AND EQUIPMENT COSTS. THE APPLICANT'S CONTRACTOR SHALL NOTIFY CONSUMERS PRIOR TO WATER MAIN SHUTDOWN. SHUTDOWN SHALL NOT BE MADE PRIOR TO NINE (9) AM. SHUTDOWN SHALL NOT BE MADE WHEN THE TEMPERATURE AT 8 AM IS LOWER THAN THIRTY-TWO (32) DEGREES FAHRENHEIT. SHUTDOWN SHALL NOT BE MADE UNLESS THE DEPARTMENTS INSPECTOR IS PRESENT. THE CONTRACTOR MUST RESTORE WATER AT THE END OF THE WORKING DAY, BUT NO LATER THAN 5:00 PM. INSTALLER SHALL OBTAIN CONFIRMATION OF DATE OF SHUTDOWN BY NYCDOP BEFORE START OF WORK.

- W12. HYDRANTS ON WATER MAINS SHALL BE STANDARD DEPARTMENT HYDRANTS WITH DRAIN BASES, FENDERS, VALVE BOXES, COVERS AND SHALL BE PAINTED ACCORDING TO NYCDOP STANDARDS.
- W13. WHERE THE DEPTH TO THE BOTTOM OF THE SEWER CRADLE IS LESS THAN TEN (10) FEET, THE CLEARANCE BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE CENTERLINE OF THE SEWER SHOULD NOT BE LESS THAN SIX (6) FEET PLUS ONE HALF THE SEWER DIAMETER. IF THIS REQUIREMENT CANNOT BE MET A PRE-AND-POST-CONSTRUCTION TV-INSPECTION OF THE EXISTING SEWER IS REQUIRED. TAPES AND REPORT OF THE PRE-AND-POST-CONSTRUCTION TV-INSPECTION (OR VISUAL INSPECTION FOR SEWERS 54-INCH DIAMETER AND LARGER) SHALL BE SENT TO THE NYCDOP/BWSO, ATTENTION: DIVISION OF REVIEW AND CONSTRUCTION COMPLIANCE, FOR EVALUATION AND ACTION AS NEEDED.
- W14. THE ALIGNMENT OF THE WATER MAINS SHOWN AND THE LOCATION OF THE VALVES ARE SHOWN APPROXIMATELY. THE EXACT ALIGNMENTS SHALL BE DETERMINED IN THE FIELD AND ADJUSTMENTS CAN BE MADE TO AVOID UTILITIES AS WORK PROGRESSES.
- W15. ALL DUCTILE IRON PIPES WITH RESTRAINED JOINTS SHALL BE FURNISHED, DELIVERED, INSTALLED, AND TESTED IN ACCORDANCE WITH THE LATEST NYCDOP STANDARD WATER MAIN SPECIFICATIONS, THE LATEST NYCDOP SPECIFICATION FOR DUCTILE IRON PIPE, AND AS APPROVED BY THE ENGINEER.
- W16. PRIOR TO CONNECTING THE NEW MAINS TO THE EXISTING MAINS, ALL RESTRAINT REQUIREMENTS, WITH UNBALANCED PRESSURE CONDITIONS GENERATED BY MODIFIED PIPE GEOMETRY AND NEWLY INSTALLED VALVES AND FITTINGS MUST BE FULLY MET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PROPERTY AND PERSONNEL INJURED CAUSED BY NEGLIGENCE OR OMISSION REGARDING COMPLIANCE WITH THE RESTRAINT REQUIREMENTS. FOR TYPICAL MINIMUM LENGTHS OF REQUIRED RESTRAINT, SEE TABLE A8-2 IN STANDARD SPECIFICATION FOR DUCTILE-IRON PIPE, WITH PUSH-ON JOINTS AND DUCTILE-IRON FITTINGS WITH MECHANICAL JOINTS THROUGH 48". LATEST EDITION.
- W17. BACKFLOW PREVENTERS (BFP) FOR FIRE SERVICE SHALL CONSIST OF 10-INCH ZURN WILKINS MODEL 350DA DOUBLE CHECK DETECTOR ASSEMBLY OR APPROVED EQUAL BFP FOR DOMESTIC SERVICE SHALL CONSIST OF 4-INCH ZURN WILKINS MODEL 350DA DOUBLE CHECK DETECTOR ASSEMBLY OR APPROVED EQUAL.
- W18. FIRE WATER METER SHALL CONSIST OF 10-INCH NEPTUNE HP FIRE SERVICE TURBINE OR APPROVED EQUAL DOMESTIC WATER METER SHALL CONSIST OF 4-INCH ELSTER EVQ04 ELECTRONIC METER OR APPROVED EQUAL.
- W19. THE DISTANCE BETWEEN THE PROPERTY LINE AND VALVES SHALL BE EQUAL TO 2 FEET.
- W20. PER THE GEOTECHNICAL REPORT, THE EXISTING SITE SOILS ARE CORROSIVE TO CAST IRON PIPE AND DUCTILE IRON PIPE. THE CONTRACTOR SHALL ENCASE ANY PROPOSED DUCTILE IRON PIPE IN POLYETHYLENE ENCASEMENT.

STORM DRAINAGE NOTES:

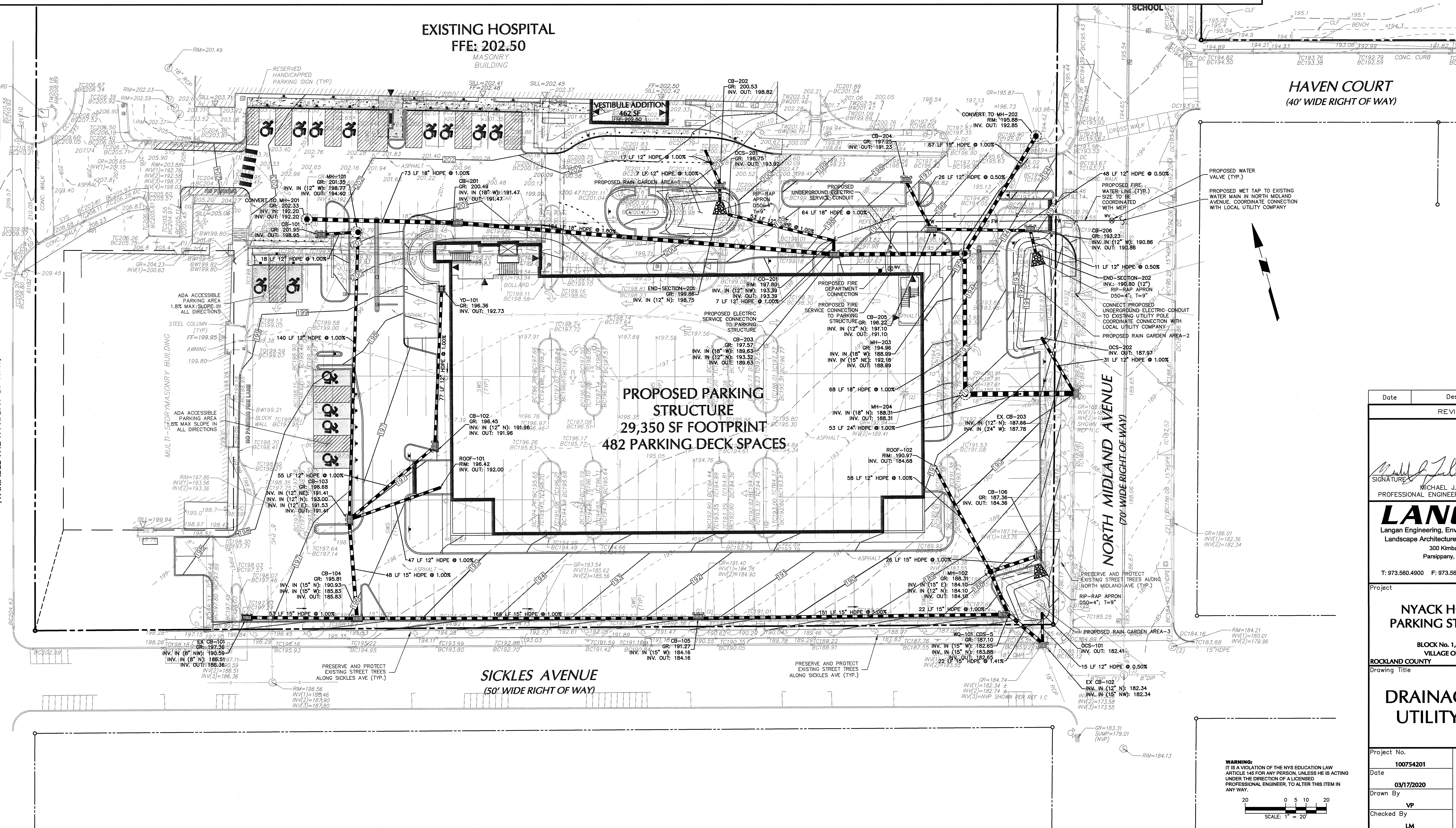
- S01. ALL STORMWATER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL AND ITS APPENDICES.
- S02. ALL STORM SEWERS SHOWN HEREON SHALL BE HOPE WITH WATERTIGHT JOINTS.
- S03. ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING.
- S04. ABBREVIATIONS  
HOPE = HIGH DENSITY POLYETHYLENE  
DIP = DUCTILE IRON PIPE  
INV = INVERT  
LF = LINEAR FEET  
GR = GRADE ELEVATION  
FG = FINISHED GRADE  
RM = RIM ELEVATION  
MH = MANHOLE  
CB = CATCH BASIN
- S05. PROPOSED STORM DRAINAGE PIPING SHALL BE TEMPORARILY PROTECTED WITH A MINIMUM OF TWO FEET OF COVER DURING CONSTRUCTION.
- S06. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PRODUCTS (PIPES, STRUCTURES, COVERS/GATES, ETC.) INCLUDING MATERIAL SPECIFICATIONS FOR FILL MATERIAL. ALL SITE-RELATED SHOP DRAWINGS SUBMITTED TO THE OWNER'S ENGINEER SHALL BEAR THE APPROVAL STAMP OF THE GENERAL CONTRACTOR.
- S07. WHERE MANUFACTURER'S NAMES AND PRODUCT NUMBERS ARE INDICATED ON DRAWINGS, IT SHALL BE CONSTRUED TO MEAN THE ESTABLISHMENT OF QUALITY AND PERFORMANCE STANDARDS OF SUCH ITEMS. ALL OTHER PRODUCTS SHALL BE SUBMITTED TO THE OWNER'S ENGINEER FOR APPROVAL BEFORE THEY SHALL BE DEEMED EQUAL.
- S08. DRAINAGE STRUCTURES SHALL BE PRECAST CONCRETE MEETING THE REQUIREMENTS OF SECTION 706-0.4 OF THE NYSDOT STANDARD SPECIFICATIONS. FOR ADDITIONAL DETAILS SEE NYSDOT STANDARD SHEETS M604-SR1, M604-SR1, M604-SR1, AND M604-SR1.
- S09. STEPS ARE REQUIRED FOR ALL DRAINAGE STRUCTURES OVER 4 FEET DEEP. STEPS SHALL MEET THE REQUIREMENTS OF SECTION 225 OF THE NYSDOT STANDARD SPECIFICATIONS.
- S10. THE CONTRACTOR WILL BE REQUIRED TO CLEAN ANY ACCUMULATION OF SLT, DEBRIS OR FOREIGN MATTER OF ANY KIND AND THE STORMWATER SYSTEM SHALL BE KEPT CLEAN OF ANY SUCH ACCUMULATION UNTIL FINAL ACCEPTANCE OF WORK. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
- S11. CONTRACTOR SHALL SUBMIT AN AS-BUILT SURVEY OF THE STORM DRAINAGE SYSTEM TO THE OWNER. THE SURVEY SHALL BE SUBMITTED INDICATING MANHOLE AND CATCH BASIN LOCATIONS, SIZE, DRAINAGE PIPE, MATERIALS, INVERTS, LENGTHS, AND SLOPES. THE AS-BUILT SURVEY SHALL INCLUDE A BENCH MARK BASED OFF A DATUM INDICATED ON THESE PLANS.
- S12. WATER QUALITY UNITS SHALL BE AS NOTED ON THE PLANS. ALTERNATIVE WATER QUALITY UNITS MAY BE SUBMITTED TO THE ENGINEER BUT MUST INCLUDE TREATMENT CALCULATIONS IN COMPLIANCE WITH THE MOST RECENT EDITION OF NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL AND ITS APPENDICES.
- S14. CONTRACTOR TO REVIEW AND PERFORM WORK IN ACCORDANCE TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE SUBJECT SITE.

ELECTRIC SERVICE NOTES:

- E1. ELECTRIC SERVICE TO BE CONSTRUCTED IN ACCORDANCE WITH CON EDISON SPECIFICATIONS.
- E2. ALL UNDERGROUND ELECTRICAL SERVICE RELATED INSTALLATIONS SHALL BE COORDINATED BY THE CONTRACTOR WITH CON EDISON. ELECTRICAL CONDUIT SHALL BE SCHEDULE 40 PVC OR AS REQUIRED BY CON EDISON. THE MINIMUM BURIAL DEPTH OF ELECTRICAL CONDUIT SHALL BE 2 FEET.
- E3. UNDERGROUND ELECTRIC DUCT BANKS SHALL BE ENCASED IN CAST-IN-PLACE CONCRETE. ALTERNATELY, UNDERGROUND ELECTRICAL SERVICE MAY BE INSTALLED IN A PRECAST CONCRETE DUCT BANK, AFTER A PROFILE IS PREPARED BY CONTRACTOR TO VERIFY CROSSINGS.
- E4. ALL TRENCHES TO BE BACKFILLED IN ACCORDANCE WITH CON EDISON SPEC E0-1181 REV 6.
- E5. CONTRACTOR SHALL ENTER MANHOLES WITH 10' OF 5" RGS CONDUIT AND THEN CONTINUE UNDERGROUND RUN IN 5" HOPE OR FIRE CONDUIT.
- E6. ANCHOR AND DOWNGUYS ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH CON EDISON SPEC E0-5907-B REV 13.
- E7. ALL SWEEPS SHALL BE 36" RADIUS MINIMUM. TRANSITION SPLICES TO RISERS SHALL BE IN ACCORDANCE WITH DETAILS ON CON EDISON SPEC E0-5907-B REV 13.
- E8. FURNISH AND INSTALL 1/2" EHS STRAND WITH 5" GALVANIZED RINGS AND SADDLES. NOMINAL SPACING OF RINGS AND SADDLES AT 18"-24". FURNISH AND INSTALL CON EDISON SPEC E0-7686C, 150KV, 500KWHV COPPER, JACKETED FLAT STRAP CABLE OR APPROVED EQUAL. CON EDISON SHALL REVIEW AND APPROVE ALL CABLE SUBMITTALS.
- E9. PROVIDE RACKING AS REQUIRED ON EACH LONG WALL OF EACH MANHOLE. FURNISH 3 RACKS PER SIDE. RACKING SHALL BE ARCPROOFED WITH SMOOTH 77 FIRE-PROOFING TAPE WHEN MORE THAN ONE FEEDER OCCUPIES A MANHOLE. BIND ARC TAPE WITH GLASS CLOTH TAPE AT BEGINNING AND END.
- E10. THE CON EDISON DETAIL STANDARDS REFERENCED ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL REVIEW ALL APPLICABLE DETAILS REQUIRED BY CON EDISON WITH CON EDISON PRIOR TO PURCHASING ANY EQUIPMENT.

LEGEND

	EXISTING	PROPOSED
PROPERTY LINE		
SPOT ELEVATION		
CONTOUR		
STORM MANHOLE		
CATCH BASIN		
STORM SEWER PIPE		



**WARNING:**  
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 148 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

20 0 5 10 20  
SCALE: 1" = 20'

Date	Description	No.
REVISIONS		
<b>LANGAN</b> Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054 T: 973.560.4900 F: 973.560.4901 www.langan.com		
Project		
<b>NYACK HOSPITAL PARKING STRUCTURE</b>		
BLOCK No. 1, LOT No.74 VILLAGE OF NYACK ROCKLAND COUNTY NEW YORK		
Drawing Title		

Project No.	Drawing No.
100754201	CG102
Date	03/17/2020
Drawn By	VP
Checked By	LM



GENERAL NOTES

- EXISTING BOUNDARY AND TOPOGRAPHY INFORMATION IS BASED ON PLAN TITLED "EXISTING CONDITIONS PLAN", PREPARED BY LRC GROUP, DATED 08/22/2016, AND FIELD DATA OBTAINED BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C. ON 1/23/2020.
- ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- REFER TO CE501 FOR SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.

HIGHLAND AVENUE  
(US ROUTE 9W)  
VARIABLE WIDTH RIGHT OF WAY



EXISTING HOSPITAL  
FFE: 202.50  
MASONRY BUILDING

PROPOSED PARKING  
STRUCTURE  
29,350 SF FOOTPRINT  
482 PARKING DECK SPACES  
TOTAL  
DISTURBANCE  
2.17 ACRES

SICKLES AVENUE  
(50' WIDE RIGHT OF WAY)

HAVEN COURT  
(40' WIDE RIGHT OF WAY)

NORTH MIDLAND AVENUE  
(70' WIDE RIGHT OF WAY)

Date	Description	No.
REVISIONS		
		
SIGNATURE:  MICHAEL J. FOWLES PROFESSIONAL ENGINEER NY Lic. No. 100754201		
<b>LANGAN</b> Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054 T: 973.560.4900 F: 973.560.4901 www.langan.com		
Project <b>NYACK HOSPITAL PARKING STRUCTURE</b> BLOCK No. 1, LOT No. 74 VILLAGE OF NYACK ROCKLAND COUNTY NEW YORK		
Drawing Title <b>SOIL EROSION &amp; SEDIMENT CONTROL PLAN</b>		
Project No. 100754201		Drawing No. CE101
Date 03/17/2020		
Drawn By VP		
Checked By LM		

WARNING:  
IT IS A VIOLATION OF THE NYS EDUCATION LAW  
ARTICLE 148 FOR ANY PERSON UNLESS HE IS ACTING  
UNDER THE DIRECTION OF A LICENSED  
PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN  
ANY WAY.







ORDINANCE SECTION		ORDINANCE REQUIREMENT	PROPOSED	COMPLIANCE
	B(1)	ANY LIGHT SOURCE OR LAMP THAT EMITS MORE THAN 900 LUMENS SHALL BE CONCEALED OR SHIELDED WITH A FULL CUTOFF STYLE FIXTURE WITH AN ANGLE NOT EXCEEDING 90 DEGREES TO MINIMIZE THE POTENTIAL FOR GLARE AND UNNECESSARY DIFFUSION ON ADJACENT PROPERTY.	ALL POLE-MOUNTED SITE AREA LUMINAIRES ARE FULL CUTOFF STYLE FIXTURES.	COMPLIES
	B(2)	THE MAXIMUM HEIGHT OF ANY LIGHTING POLE SERVING A RESIDENTIAL USE SHALL BE 12 FEET. THE MAXIMUM HEIGHT SERVING ANY OTHER TYPE OF USE SHALL BE 15 FEET, EXCEPT IN PARKING LOTS LARGER THAN 5 ACRES. THE MAXIMUM HEIGHT SHALL BE 20 FEET IF THE POLE IS LOCATED AT LEAST 100 FEET FROM ANY RESIDENTIAL USE.	THE MAXIMUM HEIGHT OF ALL POLE-MOUNTED FIXTURES IS 12 FEET.	COMPLIES
§360-4.10. LIGHTING		MAXIMUM LIGHT LEVELS LIGHTING SHALL COMPLY WITH THE MAXIMUM LIGHT LEVELS, MEASURED IN FOOT-CANDELS, SHOWN BELOW. LIGHTING LEVELS AT PROPERTY LINES ADJACENT TO PUBLIC SIDEWALK OR RIGHT-OF-WAY MAY EXCEED THE MAXIMUM FOOT-CANDELS PERMITTED FOR PEDESTRIAN WALKWAYS, PROVIDED THAT NO LIGHTING SHINE INTO A STATE ROAD RIGHT-OF-WAY OR PARKLAND.	PROPOSED:	
C		MAXIMUM LIGHT LEVELS IN NON-RESIDENTIAL DISTRICTS: PROPERTY LINE = 2.0 FC MAX. BUILDING ENTRANCES = 5.0 FC PARKING AREAS = 6.0 FC PEDESTRIAN WALKWAYS = 3.0 FC	PROPERTY LINE = 4.2 FC MAX. BUILDING ENTRANCES = 26.4 FC MAX. PARKING AREAS = 8.1 FC MAX. PEDESTRIAN WALKWAYS = 6.5 FC MAX.	WAIVER (SEE NOTE BELOW)

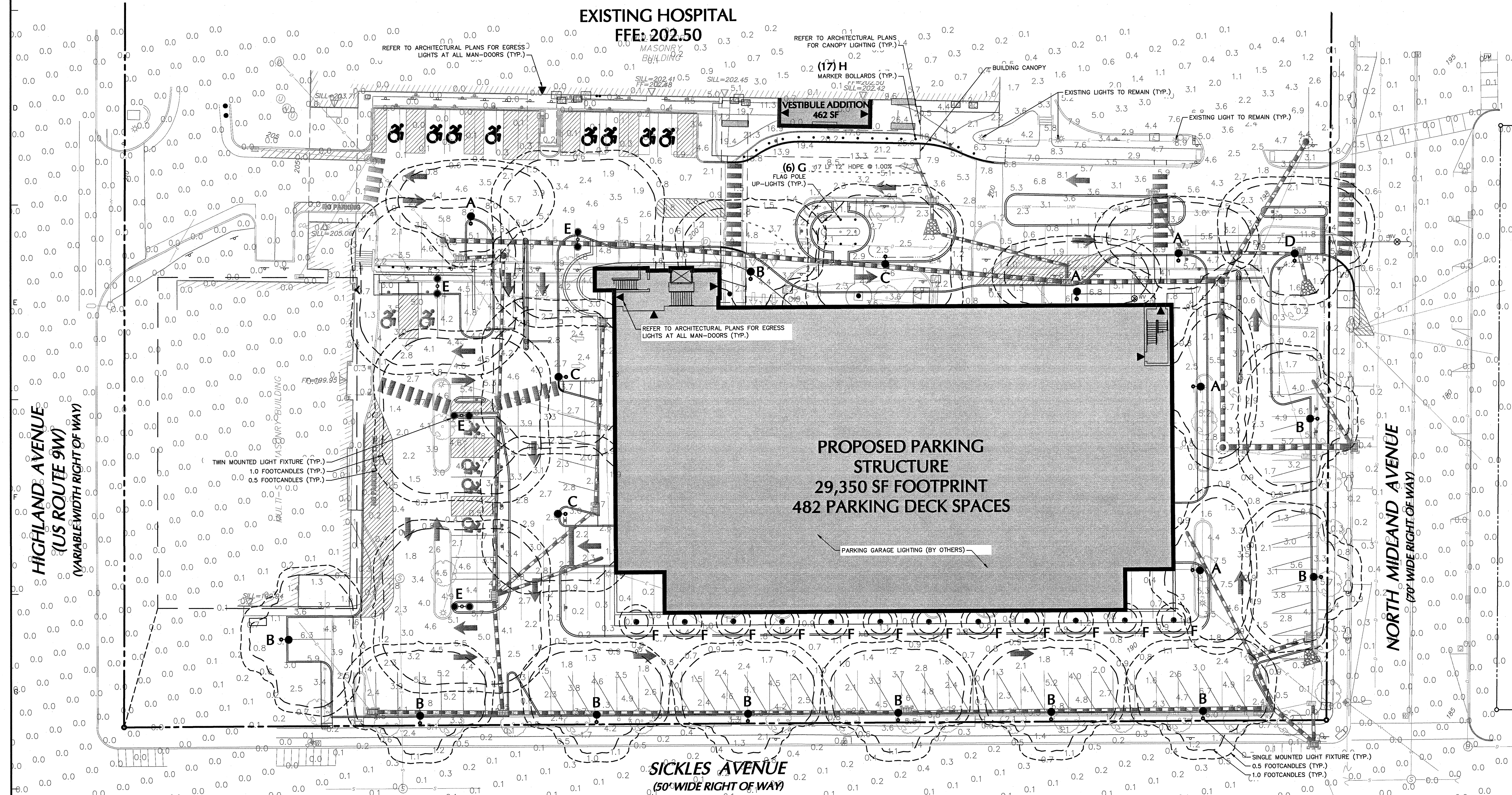
STATISTICS					
DESCRIPTION	AVG.	MAX.	MIN.	MAX./MIN.	AVG./MIN.
DRIVE AREAS	3.7/c	21.1/c	0.5/c	42.2:1	7.4:1
EXTERIOR PARKING AREA	2.9/c	8.1/c	0.5/c	16.2:1	5.9:1
BUILDING ENTRANCE	14.7/c	26.4/c	2.1/c	12.6:1	7.0:1
PEDESTRIAN WALKWAYS	2.4/c	6.8/c	0.5/c	13.6:1	4.7:1
PROPERTY LINE	1.0/c	4.2/c	0.0/c	N/A	N/A

NOTE:  
1. EXISTING SITE LIGHTING TO REMAIN AND PROPOSED CANOPY LIGHT PHOTOMETRY  
AND CALCULATIONS ARE INCLUDED IN THE ABOVE STATISTICS.

SAMPLE	KEY	QTY.	FIXTURE MANUFACTURER	FIXTURE MODEL	FIXTURE DESCRIPTION	FIXTURE MOUNTING HEIGHT	LAMP	OPTICS	LUMENS	LLF	IES FILE	FIXTURE CATALOGUE NO.	POLE MANUFACTURER	POLE DESCRIPTION	POLE LENGTH	POLE CATALOGUE NO.
●●	A	5	HOLOPHANE	GLASWERKS FLAT LED 2 - HALLBROOK	POLE MOUNTED SINGLE OUTDOOR LED AREA AND ROADWAY PENDANT; COLOR - BLACK	12'-0"	LED	TYPE 2	6,892	0.90	GSF2-P20-40K_VX_X_1.2.IES	GSF2-P20-40K-VOLTS-4-B-B-L2	HOLOPHANE	HALLBROOK SERIES; SINGLE ARM ALUMINUM POST WITH 22" DIA. BASE; COLOR - BLACK	12'-0"	HLBK-12-A-1-K
●●	B	10	HOLOPHANE	GLASWERKS FLAT LED 2 - HALLBROOK	POLE MOUNTED SINGLE OUTDOOR LED AREA AND ROADWAY PENDANT; COLOR - BLACK	12'-0"	LED	TYPE 3	6,877	0.90	GSF2-P20-40K_VX_X_1.3.IES	GSF2-P20-40K-VOLTS-4-B-B-L3	HOLOPHANE	HALLBROOK SERIES; SINGLE ARM ALUMINUM POST WITH 22" DIA. BASE; COLOR - BLACK	12'-0"	HLBK-12-A-1-K
●●	C	3	HOLOPHANE	GLASWERKS FLAT LED 2 - HALLBROOK	POLE MOUNTED SINGLE OUTDOOR LED AREA AND ROADWAY PENDANT; COLOR - BLACK	12'-0"	LED	TYPE 5	7,132	0.90	GSF2-P20-40K_VX_X_1.5.IES	GSF2-P20-40K-VOLTS-4-B-B-L5	HOLOPHANE	HALLBROOK SERIES; SINGLE ARM ALUMINUM POST WITH 22" DIA. BASE; COLOR - BLACK	12'-0"	HLBK-12-A-1-K
●●	D	1	HOLOPHANE	GLASWERKS FLAT LED 2 - HALLBROOK	POLE MOUNTED SINGLE OUTDOOR LED AREA AND ROADWAY PENDANT; COLOR - BLACK	12'-0"	LED	TYPE 3	10,194	0.90	GSF2-P40-40K_VX_X_1.3.IES	GSF2-P40-40K-VOLTS-4-B-B-L3	HOLOPHANE	HALLBROOK SERIES; SINGLE ARM ALUMINUM POST WITH 22" DIA. BASE; COLOR - BLACK	12'-0"	HLBK-12-A-1-K
●●●	E	4	HOLOPHANE	GLASWERKS FLAT LED 2 - HALLBROOK	POLE MOUNTED TWIN (180 DEGREES) OUTDOOR LED AREA AND ROADWAY PENDANT; COLOR - BLACK	12'-0"	LED	TYPE 5	7,132	0.90	GSF2-P20-40K_VX_X_1.5.IES	GSF2-P20-40K-VOLTS-4-B-B-L5	HOLOPHANE	HALLBROOK SERIES; DOUBLE ARM ALUMINUM POST WITH 22" DIA. BASE; COLOR - BLACK	12'-0"	HLBK-12-A-2-K
●	F	12	LUMINIS	LUMISTIK LED BOLLARD	BOLLARD LIGHT FIXTURE; COLOR - BLACK; STAINLESS STEEL	3'-6"	LED	360 DEGREE THROW	832	0.90	CL313XL-LS6W10-IES	CL313XL-LS6W10-VOLTS-SS3	N/A	N/A	N/A	N/A
●	G	2 PER FLAG POLE	HYDREL	M9700C LED IN-GRADE LUMINAIRE	UP-LIGHT FIXTURE FOR FLAG POLES; COLOR - BLACK	AT GRADE	LED	TYPE NARROW SPOT THROW	4,205	0.90	N/A	M8710C-SS-LED-P2-40K-MVOLT-MSP-FLC-BL	N/A	N/A	N/A	N/A
●	H	17	LANDSCAPE FORMS	GUIDE BOLLARD	MARKER BOLLARD WITH LED LIGHTING; COLOR - BLACK	43 5/8"	LED	N/A	270	N/A	N/A	AE-SM-200-4000K	N/A	N/A	N/A	N/A

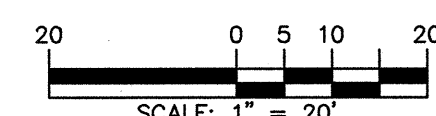
**NOTES:**

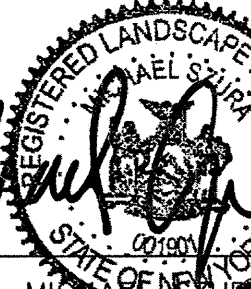
1. REFER TO ELECTRICAL DRAWINGS FOR SITE LIGHTING VOLTAGES.
2. CONTRACTOR TO CONFIRM CONTROLS SYSTEM REQUIRED BY THE OWNER AND PER CODE. BID PRICING SHALL INCLUDE CONTROLS SYSTEM.
3. EXISTING SITE AREA, LIGHTS, AND PROPOSED CANOPY LIGHTS ARE MODELED BUT NOT SHOWN. SEE ARCHITECTURAL PLANS FOR DETAILS.



**NOTE:**

1. REFER TO SHEET LL501-0101 FOR LIGHTING NOTES AND DETAILS.



Date	Description	No.
REVISIONS		
		
SIGNATURE	MICHAEL J. LANGAN	DATE SIGNED
CERTIFIED LANDSCAPE ARCHITECT NY Lic. No. 001901-1		
<b>LANGAN</b> Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054 T: 973.560.4900 F: 973.560.4901 www.langan.com		
Project		
NYACK HOSPITAL PARKING STRUCTURE BLOCK No. 1, LOT No.74 VILLAGE OF NYACK ROCKLAND COUNTY Drawing Title		
NEW YORK		
<b>LIGHTING PLAN</b>		
Project No. 100754201		Drawing No.  <b>LL101</b>
Date 03/17/2020		
Drawn By ML		
Checked By DP		



## LIGHTING NOTES:

### GENERAL

- POINT-BY-POINT CALCULATIONS PROVIDED WITHIN HAVE BEEN PREPARED IN ACCORDANCE TO IESNA STANDARDS AND IN CONSIDERATION OF THE VARIABLES WITHIN THESE NOTES AND SITE LIGHTING SCHEDULE. THE VALUES SHOWN ON THE PLANS ARE NOT AN INDICATION OF THE INITIAL LIGHT INTENSITIES OF THE LAMPS. THESE VALUES ARE AN APPROXIMATION OF THE MAINTAINED INTENSITIES DELIVERED TO THE GROUND PLANE USING INDUSTRY STANDARD LIGHT LOSS FACTORS (LLF) WHICH COVER LAMP DEGRADATION AND NATURAL BUILDUP/DIRT DEGRADATION ON THE FIXTURE LENS. THE LIGHTING PLAN IS DESIGNED WITH AN INDUSTRY STANDARD LLF IN ACCORDANCE WITH GUIDANCE AS PROVIDED BY IESNA. MINOR VARIATIONS IN TOPOGRAPHY, PHYSICAL OBSTRUCTIONS, AMBIENT OR ADJACENT LIGHT SOURCES AND/OR OTHER POTENTIAL IMPACTS HAVE NOT BEEN INCLUDED IN THESE CALCULATIONS. THEREFORE, AS-BUILT LIGHT INTENSITIES MAY VARY, IN EITHER DIRECTION, FROM WHAT IS EXPLICITLY PORTRAYED WITHIN THESE DRAWINGS. NO GUARANTEE OF LIGHT LEVELS IS EXPRESSED OR IMPLIED BY THE POINT BY POINT CALCULATIONS SHOWN ON THESE PLANS.
- LIGHT LEVEL POINT SPACING IS 20 FT. LEFT TO RIGHT AND 20 FT. TOP TO BOTTOM. POINT BY POINT CALCULATIONS ARE BASED ON THE LIGHT LOSS FACTOR AS STATED IN THE LIGHTING SCHEDULE.

### COORDINATION

- ALL SITE LIGHTING RELATED WORK AND MATERIALS SHALL COMPLY WITH CITY, COUNTY, AND OTHER APPLICABLE COVERING AUTHORITY REQUIREMENTS.
- LIGHTING LAYOUT COMPLIES WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) SAFETY STANDARDS FOR LIGHT LEVELS.
- CONTRACTOR TO COORDINATE POWER SOURCE WITH LIGHT FIXTURES TO ENSURE ALL SITE LIGHTING IS OPERATING EFFECTIVELY, EFFICIENTLY AND SAFELY.
- REFER TO ELECTRIFICATION PLAN FOR PROVIDING ADEQUATE POWER FOR SITE LIGHTING.
- CONTRACTOR TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES AND DRAINAGE BEFORE DRILLING POLE BASES.
- INSTALLATION OF ALL LIGHTING FIXTURES, POLES, FOOTINGS, AND FEEDER CABLE TO BE COORDINATED WITH ALL SITE WORK. TRACES TO AVOID CONFLICT WITH FINISHED AND PROPOSED WORK.
- CONTRACTOR TO COORDINATE INSTALLATION OF UNDERGROUND FEEDER CABLE FOR EXTERIOR LIGHTING WITH EXISTING AND PROPOSED UTILITIES, SITE DRAINAGE SYSTEMS, AND PAVING. CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE SHOULD ANY UTILITIES, NOT SHOWN ON THE PLANS, BE FOUND DURING EXCAVATIONS.

### POLES AND FOOTINGS

- CONTRACTOR SHALL EXAMINE AND VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO SUPPORT LOADS EXERTED UPON THE FOUNDATIONS DURING EXCAVATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNSATISFACTORY CONDITIONS.

### ADJUSTMENT AND INSPECTION

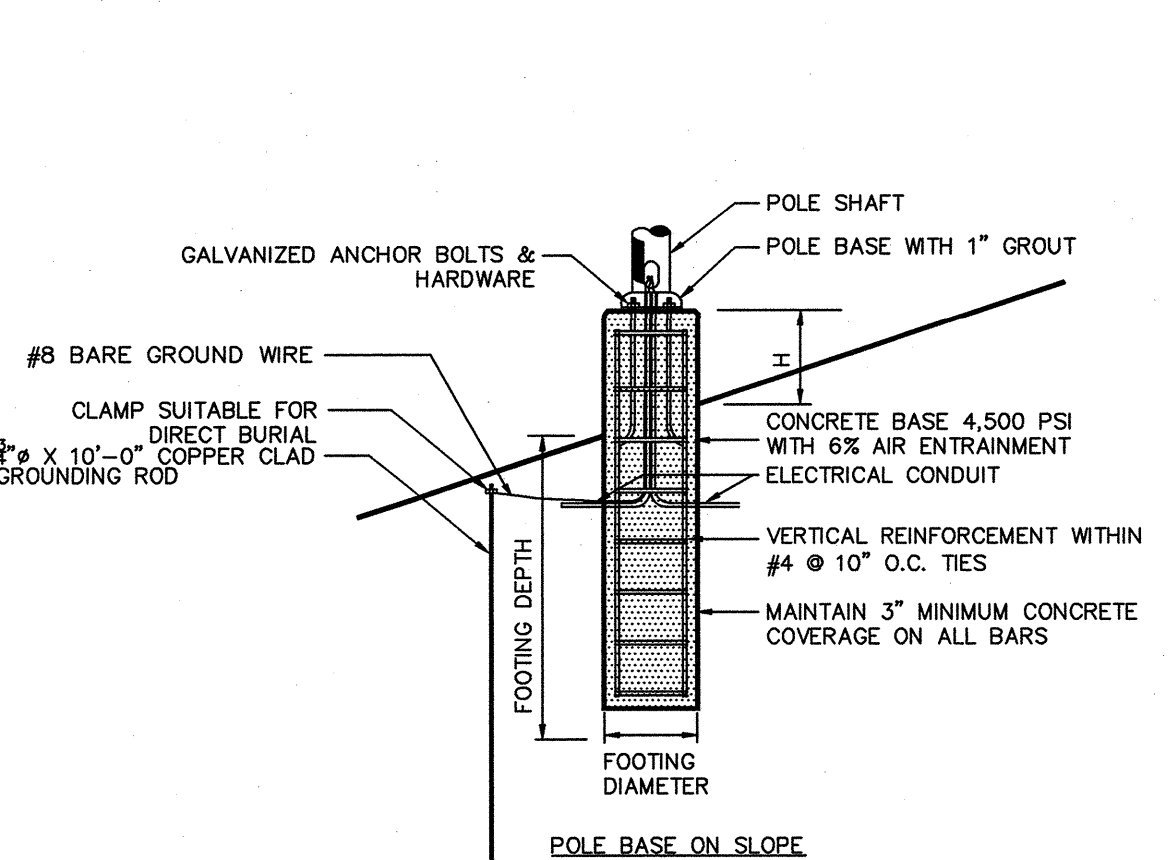
- CONTRACTOR TO OPERATE EACH LUMINAIRE AFTER INSTALLATION AND CONNECTION. INSPECT FOR IMPROPER CONNECTIONS AND OPERATION.
- CONTRACTOR TO AIM AND ADJUST ALL LUMINAIRES TO PROVIDE ILLUMINATION LEVELS AND DISTRIBUTION AS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OWNER.
- CONTRACTOR TO CONFIRM THAT LIGHT FIXTURES, TILT ANGLE AND AIMING MATCH SPECIFICATIONS ON THE PLANS.

### REQUIREMENTS FOR ALTERNATES

- ALL LIGHTING SUBSTITUTIONS MUST BE MADE WITHIN 14 DAYS PRIOR TO THE BID DATE TO PROVIDE AMPLE TIME FOR REVIEW AND TO ISSUE AN ADDENDUM INCORPORATING THE SUBSTITUTION WITH THE FOLLOWING REQUIREMENTS:
  - ANY SUBSTITUTION TO LIGHTING FIXTURES, POLES, ETC. MUST BE APPROVED BY THE OWNER, ENGINEER AND TENANTS. ANY COST ASSOCIATED WITH REVIEW AND/OR APPROVAL OF THE SUBSTITUTIONS SHALL BE ENTIRELY BORNE BY THE CONTRACTOR.
  - COMPUTER PREPARED PHOTOMETRIC LAYOUT OF THE PROPOSED LIGHTED AREA WHICH INDICATES, BY ISOCANDLE, THE SYSTEM'S PERFORMANCE.
  - A PHOTOMETRIC REPORT FROM A NATIONAL INDEPENDENT TESTING LABORATORY WITH REPORT NUMBER, DATE, FIXTURE CATALOG NUMBER, LUMINAIRE AND LAMP SPECIFICATIONS, IES CALCULATIONS, POINT BY POINT CANDLE PLAN, STATISTIC ZONES SHOWING AVERAGE, MAXIMUM, MINIMUM AND UNIFORMITY RATIOS, SUMMARY, ISOLUX PLOT, AND CATALOGUE CUTS. CATALOGUE CUTS MUST IDENTIFY OPTICS, LAMP TYPE, DISTRIBUTION TYPE, REFLECTOR, LENS, BALLASTS, WATTAGE, VOLTAGE, FINISH HOUSING DESCRIPTION AND ALL OTHER PERTINENT INFORMATION.
  - POLE MANUFACTURER AASHTO CALCULATIONS INDICATING THE POLE AND ANCHOR BOLTS BEING SUBMITTED ARE CAPABLE OF SUPPORTING THE POLE AND FIXTURE SYSTEMS BEING UTILIZED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
  - THE UNDERWRITERS LABORATORY LISTING AND FILE NUMBER FOR THE SPECIFIC FIXTURE(S) TO BE UTILIZED.
  - A COLOR PHOTOGRAPH THAT CLEARLY SHOWS THE REPLACEMENT FIXTURE POLE MOUNTED, THE FIXTURE'S COLOR, FINISH, AND PHYSICAL CHARACTERISTICS.

### 1 LIGHT FIXTURE AND POLE NTS

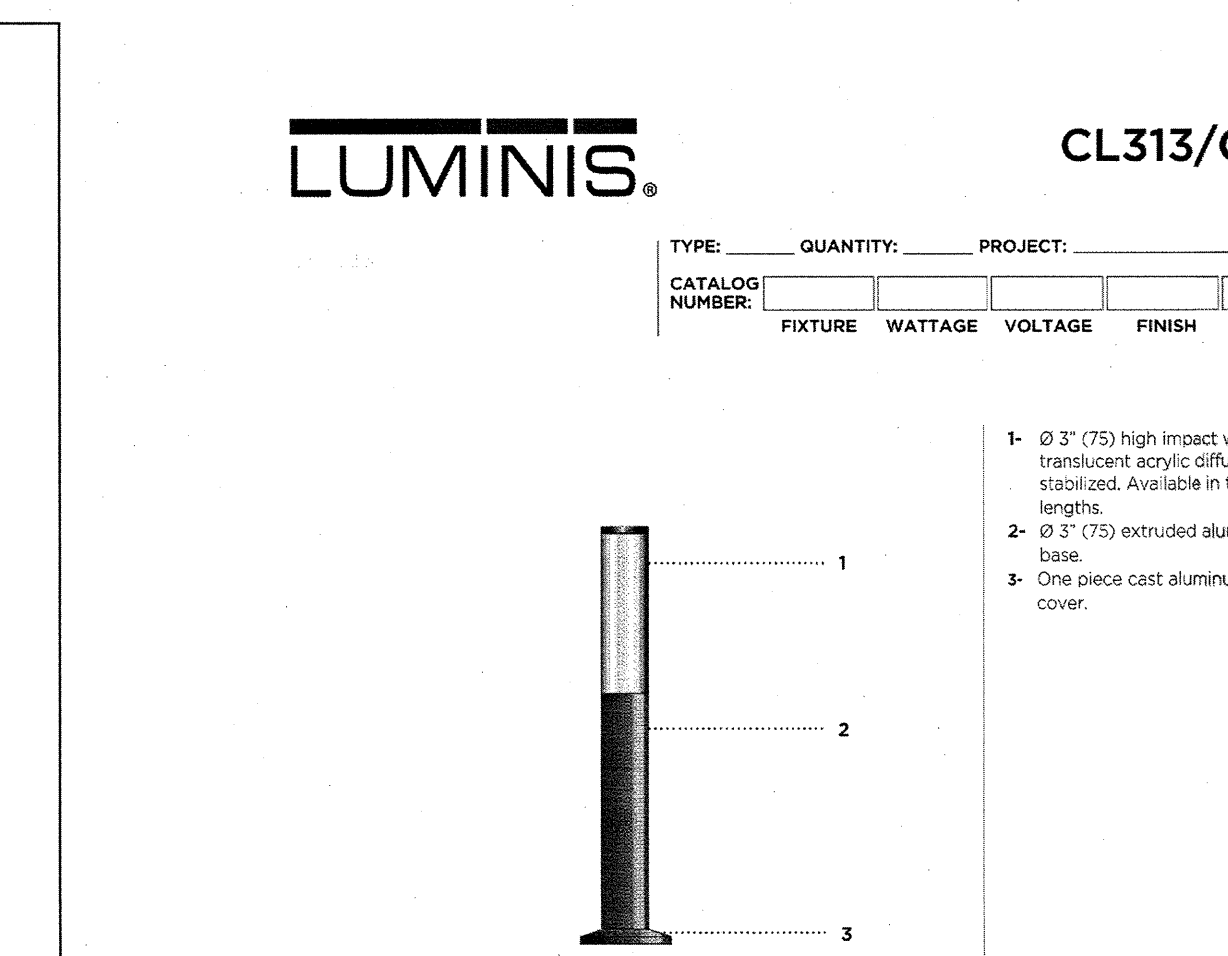
- NOTES:  
EXPOSED HEIGHT OF POLE BASE (H) SHALL BE MEASURED ON THE UPHILL SIDE OF A SLOPE. FOOTING DEPTH (D) SHALL BE MEASURED ON THE DOWNHILL SIDE OF A SLOPE. AN ADDITIONAL VARIABLE HEIGHT (V) WILL BE BASED ON THE SLOPE ON WHICH THE POLE BASE IS LOCATED. CONTRACTOR TO CALCULATE FULL LENGTH OF EACH POLE BASE REQUIRED ON SLOPES. (H+D+V = TOTAL BASE LENGTH)



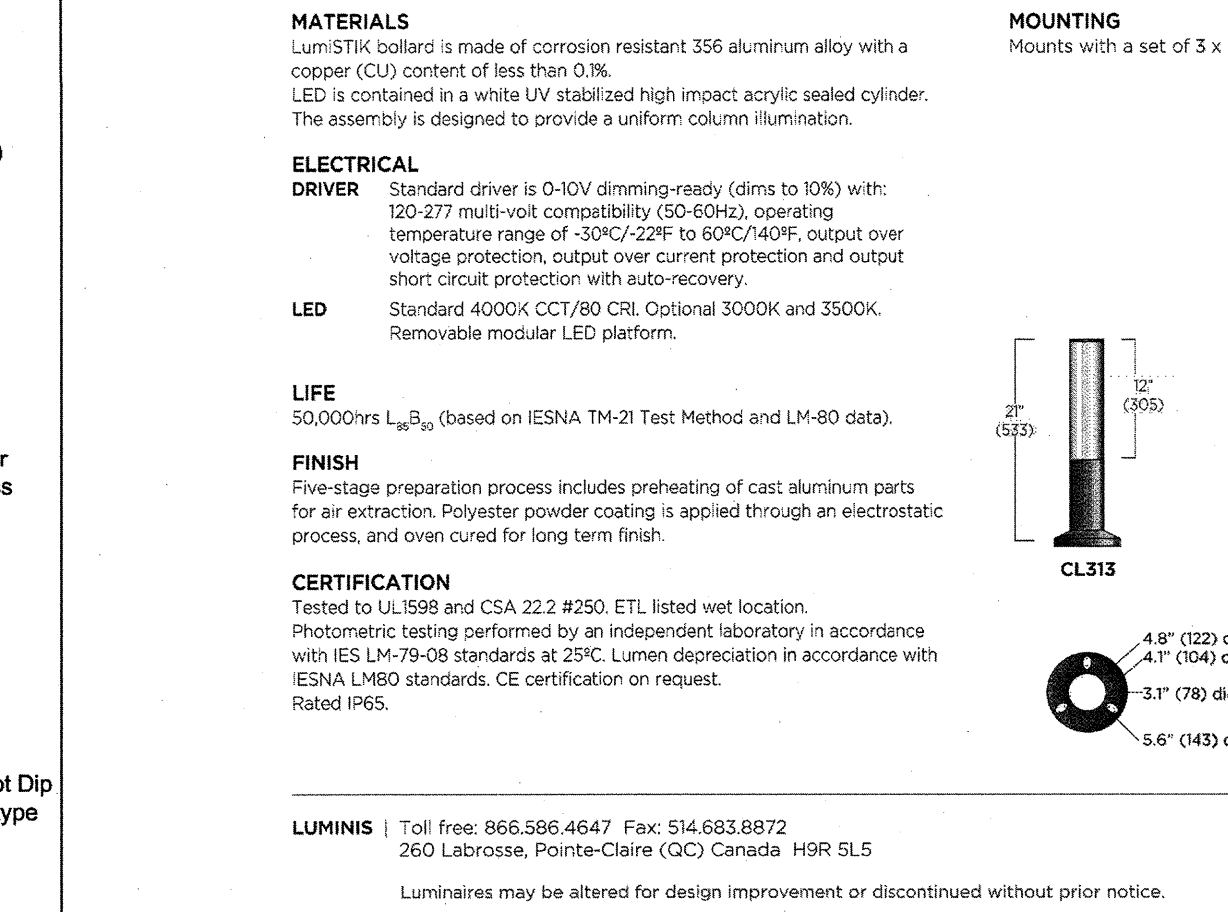
MOUNTING HEIGHT	FOOTING DEPTH	FOOTING DIAMETER	VERTICAL REINFORCEMENT	1'
12'-0"	4'-6"	2'-0"	6 #5 BARS	3'-0" EXPOSED CONCRETE BASE

### 2 LIGHT POLE BASE NTS

- NOTES:  
EXPOSED HEIGHT OF POLE BASE (H) SHALL BE MEASURED ON THE UPHILL SIDE OF A SLOPE. FOOTING DEPTH (D) SHALL BE MEASURED ON THE DOWNHILL SIDE OF A SLOPE. AN ADDITIONAL VARIABLE HEIGHT (V) WILL BE BASED ON THE SLOPE ON WHICH THE POLE BASE IS LOCATED. CONTRACTOR TO CALCULATE FULL LENGTH OF EACH POLE BASE REQUIRED ON SLOPES. (H+D+V = TOTAL BASE LENGTH)



### ANCHORAGE GUIDE



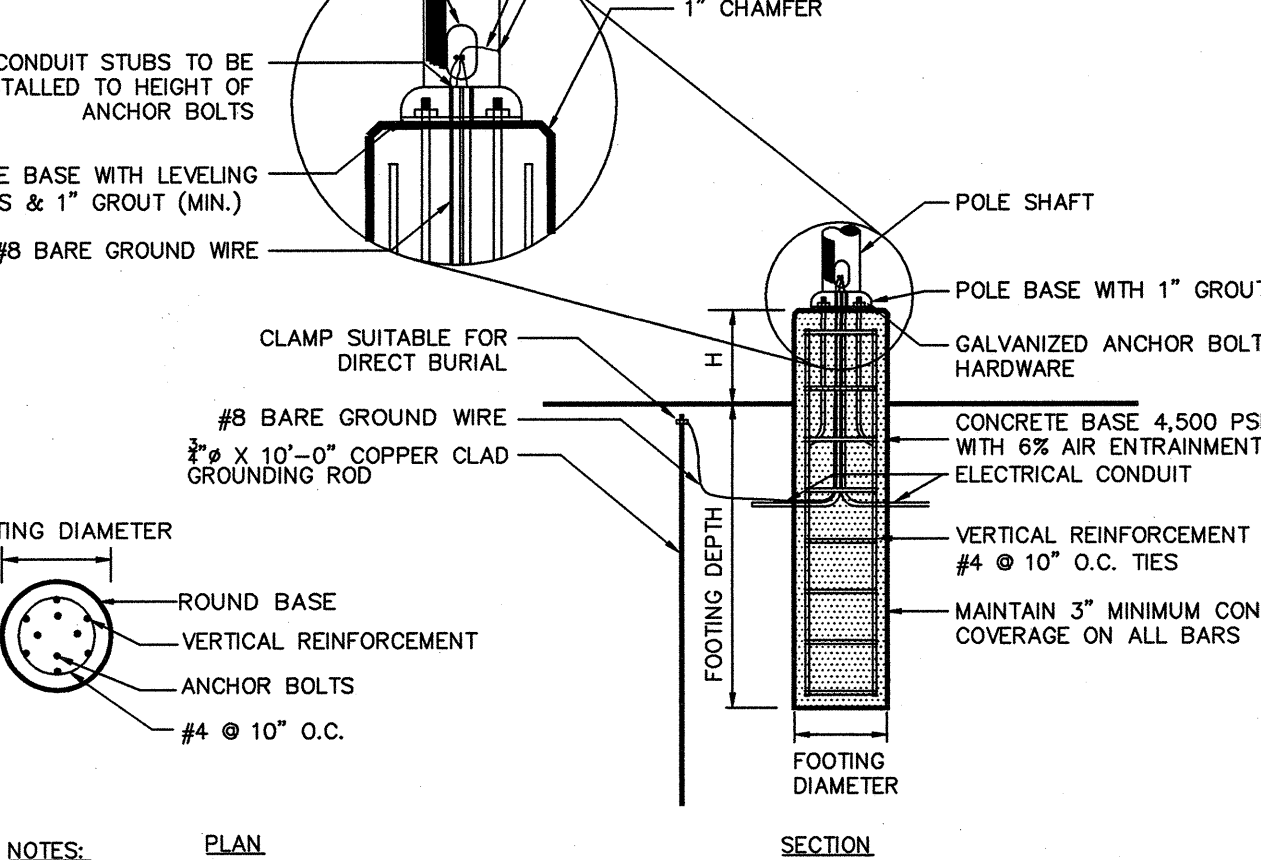
### 7 BOLLARD FIXTURE TYPE 'F' NTS

- NOTES:  
EXPOSED HEIGHT OF POLE BASE (H) SHALL BE MEASURED ON THE UPHILL SIDE OF A SLOPE. FOOTING DEPTH (D) SHALL BE MEASURED ON THE DOWNHILL SIDE OF A SLOPE. AN ADDITIONAL VARIABLE HEIGHT (V) WILL BE BASED ON THE SLOPE ON WHICH THE POLE BASE IS LOCATED. CONTRACTOR TO CALCULATE FULL LENGTH OF EACH POLE BASE REQUIRED ON SLOPES. (H+D+V = TOTAL BASE LENGTH)



### 3 BOLLARD BASE NTS

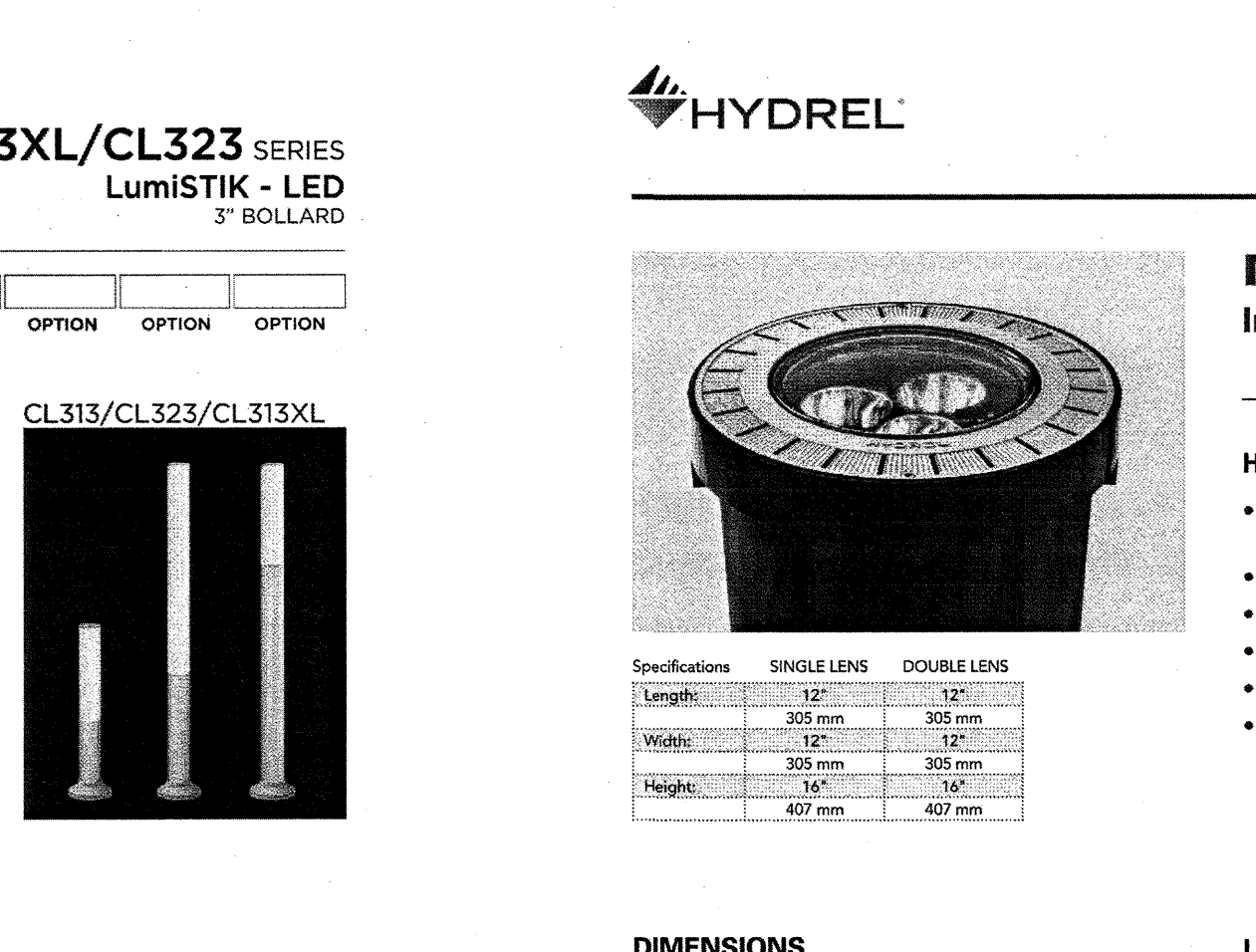
- NOTES:  
EXPOSED HEIGHT OF POLE BASE (H) SHALL BE MEASURED ON THE UPHILL SIDE OF A SLOPE. FOOTING DEPTH (D) SHALL BE MEASURED ON THE DOWNHILL SIDE OF A SLOPE. AN ADDITIONAL VARIABLE HEIGHT (V) WILL BE BASED ON THE SLOPE ON WHICH THE POLE BASE IS LOCATED. CONTRACTOR TO CALCULATE FULL LENGTH OF EACH POLE BASE REQUIRED ON SLOPES. (H+D+V = TOTAL BASE LENGTH)



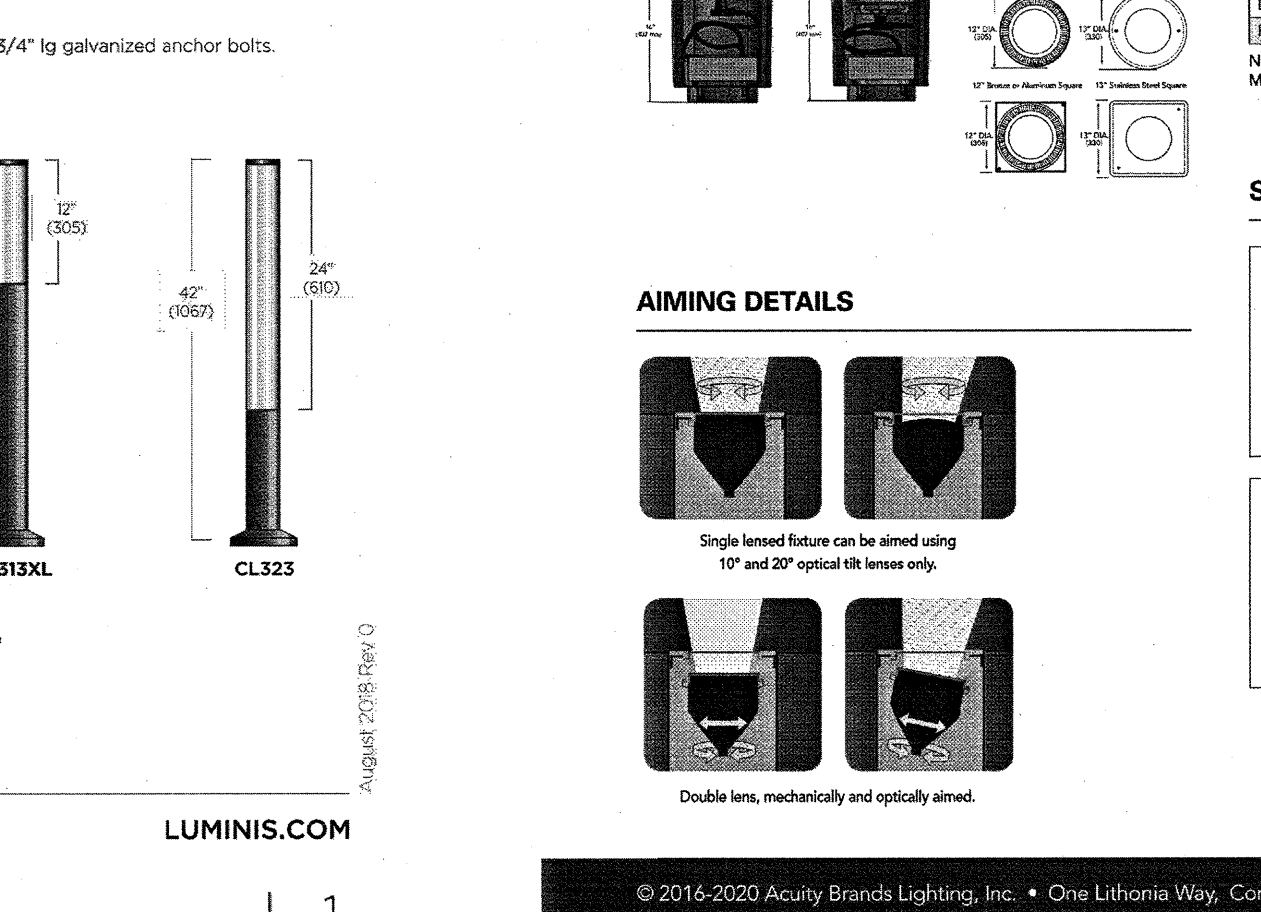
MOUNTING HEIGHT	FOOTING DEPTH	FOOTING DIAMETER	VERTICAL REINFORCEMENT	1'
12'-0"	4'-6"	2'-0"	6 #5 BARS	3'-0" EXPOSED CONCRETE BASE

### 4 LIGHT FIXTURE FOR TYPES 'A', 'B', 'C', 'D', AND 'E' NTS

- NOTES:  
EXPOSED HEIGHT OF POLE BASE (H) SHALL BE MEASURED ON THE UPHILL SIDE OF A SLOPE. FOOTING DEPTH (D) SHALL BE MEASURED ON THE DOWNHILL SIDE OF A SLOPE. AN ADDITIONAL VARIABLE HEIGHT (V) WILL BE BASED ON THE SLOPE ON WHICH THE POLE BASE IS LOCATED. CONTRACTOR TO CALCULATE FULL LENGTH OF EACH POLE BASE REQUIRED ON SLOPES. (H+D+V = TOTAL BASE LENGTH)



### ANCHORAGE GUIDE



### 8 UP-LIGHT FIXTURE TYPE 'G' NTS

- NOTES:  
EXPOSED HEIGHT OF POLE BASE (H) SHALL BE MEASURED ON THE UPHILL SIDE OF A SLOPE. FOOTING DEPTH (D) SHALL BE MEASURED ON THE DOWNHILL SIDE OF A SLOPE. AN ADDITIONAL VARIABLE HEIGHT (V) WILL BE BASED ON THE SLOPE ON WHICH THE POLE BASE IS LOCATED. CONTRACTOR TO CALCULATE FULL LENGTH OF EACH POLE BASE REQUIRED ON SLOPES. (H+D+V = TOTAL BASE LENGTH)



### Maximum Effective Projected Area - .84 ft<sup>2</sup>

### Maximum Weight - 42 lbs.

Quick Lock Stem Mount (4) Shown

### ORDERING INFORMATION:

**COVER TYPE**  
GSLF2 = HALLBROOK

**COLOR TEMP.**  
AM = TRUE AMBER  
30K = 3000K  
40K = 4000K  
50K = 5000K

**VOLTAGE**  
AS = AUTO-SENSING  
120-277V  
AH = AUTO-SENSING  
347-480V

**COLOR**  
A = AS SPECIFIED  
B = BLACK  
D = DARK BLUE  
G = GRAY  
H = GRAPHITE  
N = GREEN  
P = PRIME PAINT  
W = WHITE  
Z = BRONZE  
TDC = TIGER DRYLAC  
COLOR (RAL)  
CMC = CUSTOM MATCH COLOR

**OPTICS**  
L2 = TYPE 2 DISTRIBUTION  
L3 = TYPE 3 DISTRIBUTION  
L4 = TYPE 4 DISTRIBUTION  
L5 = TYPE 5 DISTRIBUTION

**LED PERFORMANCE PACKAGE (SEE PRODUCT CATALOGUE FOR FULL LIST OF OPTIONS)**  
P01 = TRUE AMBER LED PACKAGE  
P02 = STD COT LED PACKAGE  
P03 = STD COT LED PACKAGE  
P04 = STD COT LED PACKAGE  
P05 = STD COT LED PACKAGE

**MOUNTING STYLE**  
1 = ARM  
2 = PENDANT 1.6 NPT  
3 = PENDANT 1.25 NPT  
4 = QUICK LOCK STEM MOUNT

**OPTIONS:**  
**CONTROL OPTIONS**  
A07 = FIELD ADJUSTABLE OUTPUT  
B01 = 8-LEVEL 0-10V DIMMING CONTROL  
D01 = 20 FEET OF PREWIRED LEADS  
F000 = FACTORY PROGRAMMED DRIVER (x% = % OF LUMENS OR WATTS)  
H01 = NEMA TWISTLOCK PHOTOCONTROL, RECEPTACLE ONLY  
P01 = DTL LONG LIFE TWISTLOCK PHOTOCONTROL FOR SOLID-STATE LIGHTING, 120-277V  
P02 = DTL TWISTLOCK PHOTOCONTROL, 120-277V  
P03 = 0-10V PART-NUMBER DIMMING, INCLUDES BLOC2 & 120-277V BUTTON PHOTOCONTROL  
P04 = SHORTING CAP  
P05 = DTL TWISTLOCK PHOTOCONTROL 347V  
P06 = DTL TWISTLOCK PHOTOCONTROL 480V  
P07 = DIMMING PHOTOCONTROL RECEPTACLE - 6 PIN  
P08 = DIMMING PHOTOCONTROL RECEPTACLE - 7 PIN  
P09 = PREPARED FOR EXTERNAL SPIN PHOTOCONTROL RECEPTACLE  
P10 = PREPARED FOR EXTERNAL 7PIN PHOTOCONTROL RECEPTACLE  
P11 = PREPARED FOR EXTERNAL 7PIN PHOTOCONTROL RECEPTACLE

**OPTIONS (Cont.)**  
**SURGE PROTECTION**  
SPOPLUGIN = REPLACEMENT SURGE PROTECTOR 120-277V  
SPOPLUGIN-48 = REPLACEMENT SURGE PROTECTOR 347-480V  
SPOPLUGIN-MOV12 = REPLACEMENT SURGE PROTECTOR, MOV 120-277V  
SPOPLUGIN-MOV48 = REPLACEMENT SURGE PROTECTOR, MOV 347-480V

**ACCESSORIES**  
SPOPLUGIN = REPLACEMENT SURGE PROTECTOR 120-277V  
SPOPLUGIN-48 = REPLACEMENT SURGE PROTECTOR 347-480V  
SPOPLUGIN-MOV12 = REPLACEMENT SURGE PROTECTOR, MOV 120-277V  
SPOPLUGIN-MOV48 = REPLACEMENT SURGE PROTECTOR, MOV 347-480V

**NOTES ARE LOCATED ON PAGE 3**

### HALLBROOK Series

### Single Arm Aluminum Post, 22" Dia. Base

### ORDERING GUIDE

Catalog Number

Post Series	Height	Material	Arm	Finish
HLBK	12	A	1	B
HLBK	15	A	1	B
HLBK	18	A	1	B

**Finish**  
B = Brown  
D = Dark blue  
G = Gray  
H = Graphite  
K = Black

**L = Gold  
N = Green  
S = Silver  
W = White  
Z = Bronze**

**Accessories**  
GWBA512X Cast aluminum clamshell base

### ANCHORAGE GUIDE

### HALLBROOK Series

### Double Arm Aluminum Post, 22" Dia. Base

### ORDERING GUIDE

Catalog Number

Post Series	Height	Material	Arm	Finish
HLBK	12	A	2	B
HLBK	15	A	2	B
HLBK	18	A	2	B

**Finish**  
B = Brown  
D = Dark blue  
G = Gray  
H = Graphite  
K = Black

**L = Gold  
N = Green  
S = Silver  
W = White  
Z = Bronze**

**Accessories**  
GWBA512X Cast aluminum clamshell base

### ANCHORAGE GUIDE

### LUMINIS

### CL313/CL313XL/CL323 SERIES

### LumiSTIK - LED

### 3" BOLLARD

TYPE: QUANTITY: PROJECT:

CATALOG NUMBER

FIXTURE WATTAGE VOLTAGE FINISH OPTION OPTION OPTION OPTION

### CL313/CL313XL/CL323

### MATERIALS

LumiSTIK bollard is made of corrosion resistant 305 aluminum alloy with a copper (CU) content of less than 0.1%.

LED is contained in a white UV stabilized high impact acrylic sealed cylinder. The assembly is designed to provide a uniform column illumination.

### ELECTRICAL DRIVER

Standard driver is 0-10V dimming-ready (dim to 10%) with 120-277 multi-volt compatibility (50-60Hz) operating temperature range of 30°C (-22°F) to 60°C (140°F). Output over voltage protection, output over current protection and output short circuit protection with auto-recovery.

Standard 4000K CCT/80 CRI Color Rendering Index and 3500K. Removable modular LED platform.

### LIFE

50,000hrs L70/B50 (based on IESNA TM-21 Test Method and LM-80 data).

### FINISH

Patented preparation process includes preheating of cast aluminum parts for an extraction. Polyester powder coating is applied through an electrostatic process, and oven cured for long term finish.

### CERTIFICATION

Tested to UL599 and CSA 22.2 #250. ETL listed wet location. Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 20°C. Lumen depreciation in accordance with IESNA LM80 standards. CE certification on request. Rated IP68.

### MOUNTING

Mounts with a set of 5 x 3/8" x 3 3/4" lg galvanized anchor bolts.

### AIMING DETAILS

### CL313

### CL313XL

### CL323

### HYDREL

### M9700C

### In-Grade Luminaire

CL313/CL313XL/CL323

### HIGHLIGHTS

- Factory-sealed LED lamp module and encapsulated power module
- Optical and mechanical aiming with an optional double lens
- Optimal efficiency through photometric improvements
- Color temperature: 27K, 50K
- In-line & 0-10V Dimming
- Flow-through technology

### LUMEN PACKAGES

Delivered Lumens	100' x 100'	150' x 150'	200' x 200'	250' x 250'	300' x 300'	350' x 350'	400' x 400'
100'	25	35	45	55	65	75	85
150'	100	150	200	250	300	350	400
200'	400	600	800	1000	1200	1400	1600

### STANDARD DISTRIBUTION

### AIMING DETAILS

### Guide Bollard

### Product Data Sheet

### Finish

Pangard 118 offered exclusively by Landscape Forms, is a 19 step program of cleaning, priming, and powdercoating that resists rusting, chipping, peeling and fading to produce the finest metal finish available for site furniture and outdoor lighting. In addition, Pangard 118 contains no heavy metals and is free of Hazardous Air Pollutants.

### To Order

Select corresponding order codes and powdercoat color.

Order Code	Description
AE-5M-500	Guide Bollard, Surface Mount, with LED Lighting
AE-5M-501	Guide Bollard, Surface Mount, without LED Lighting
AE-5M-502	Guide Bollard, Removable, without LED Lighting

\*Specify color temperature for LED Lighting: 3000K, 3000K, 3000K

### Product Modifications

Don't see what you are looking for? Our goal is to partner with you as the designer to manufacture solutions needed for the space you are creating. We offer the option to modify our standard product to meet certain design specifications or needs. Contact your local Landscape Forms representative to learn more about these offerings.

### Warranty

LED lighting products are warranted for six years.

### Other

UL Listed, RoHS Compliant  
U.S. Patent D740,478

Designed by frog design

Date	Description	No.
REVISIONS		
<b>LANGAN</b> Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054 T: 973.560.4900 F: 973.560.4901 www.langan.com		

### NYACK HOSPITAL PARKING STRUCTURE

BLOCK No. 1, LOT No. 74  
VILLAGE OF NYACK  
ROCKLAND COUNTY NEW YORK

### LIGHTING NOTES AND DETAILS

Project No. 100754201  
Date 03/17/2020  
Drawn By ML  
Checked By DB

Drawing No. LL501



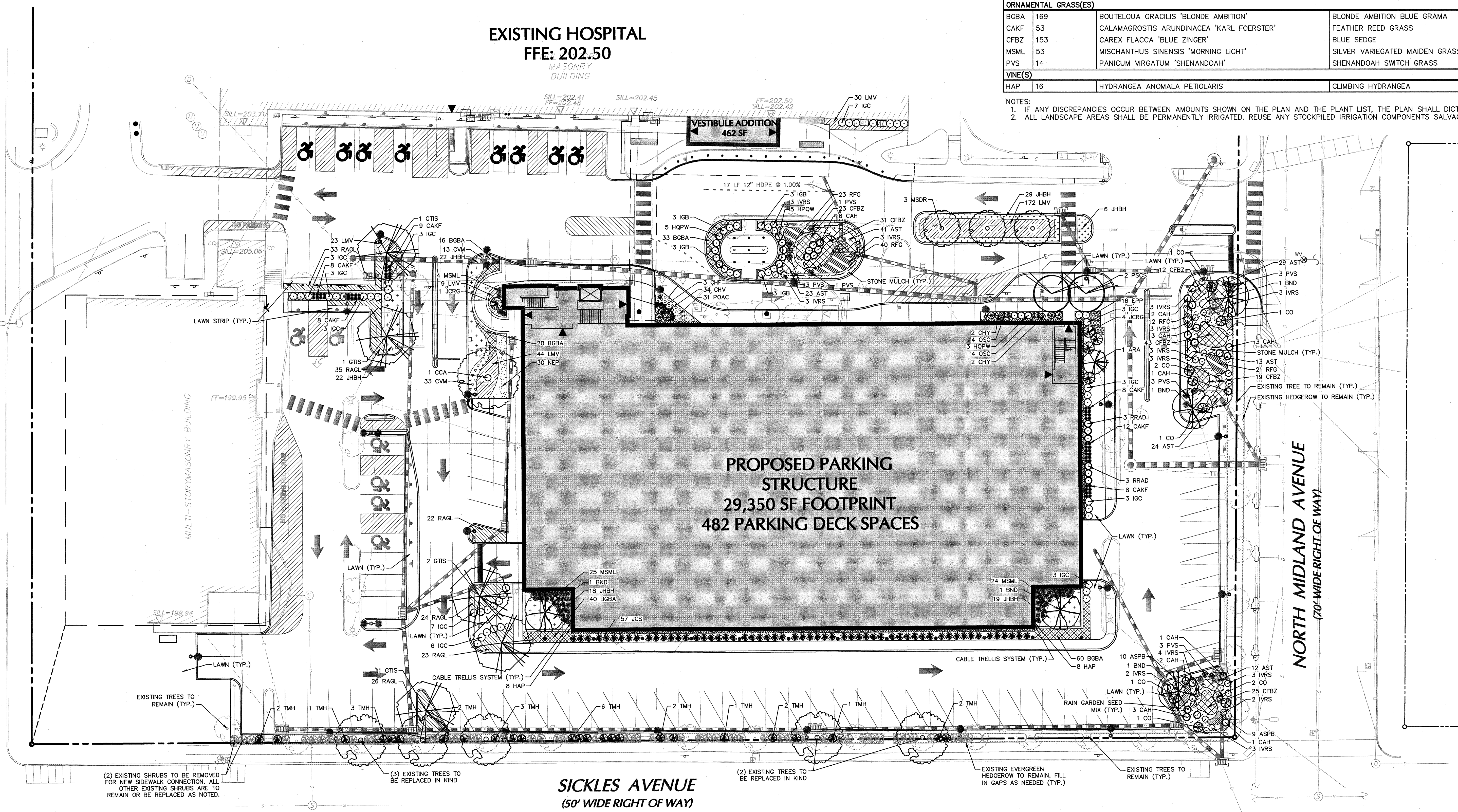
ORDINANCE COMPLIANCE CHART - VILLAGE OF NYACK, NY				
ORDINANCE SECTION		ORDINANCE REQUIREMENT	PROPOSED	COMPLIANCE
§360-4.5. PARKING AND LOADING	(2)	APPLICABILITY: ALL PARKING LOTS WITH 12 OR MORE PARKING SPACES IN TOTAL OR EIGHT OR MORE SPACES IN A SINGLE ROW SHALL BE SUBJECT TO THE REQUIREMENTS OF THIS SECTION.	SEE BELOW FOR REQUIREMENTS.	SEE BELOW
	(3)(a)	THE VIEW OF PARKING AREAS FROM ALL ADJUTING STREETS MUST BE USUALLY SCREENED BY PERMITTED BUILDINGS, FENCES, WALLS, HEDGES, OR BY A COMBINATION THEREOF. EACH FENCE, WALL OR HEDGE SHALL NOT BE LESS THAN 2.5 FEET IN HEIGHT AND NOT MORE THAN 4 FEET IN HEIGHT.	EXISTING HEDGEROWS ALONG SICKLES AVE AND NORTH MIDLAND AVE. ARE NOT MORE THAN 4 FEET IN HEIGHT. ADDITIONAL PLANTINGS ARE PROVIDED TO FILL IN GAPS.	COMPLIES
	(3)(b)	WHERE A PARKING AREA IS LOCATED ADJACENT TO A RESIDENTIAL USE, RESIDENTIAL ZONING DISTRICT, CLUBHOUSE, COMMUNITY CENTER, PLACE OF WORSHIP, DAY CARE, NURSERY, SCHOOL, EDUCATIONAL USE, HOSPITAL OR PUBLIC PARK OR OPEN SPACE, THE SCREENING REQUIREMENT SHALL BE MET BY A COMBINATION OF BUILDING, FENCE, WALL OR HEDGE NOT LESS THAN 5 FEET IN HEIGHT AND NOT MORE THAN 6 1/2 FEET IN HEIGHT.	EXISTING AND PROPOSED SHADE TREES AND EVERGREEN SHRUBS ARE PROVIDED AROUND ALL PARKING AREAS TO SCREEN FROM ADJACENT RESIDENTIAL AREAS.	COMPLIES
	(4)(c)	LANDSCAPE ISLANDS WITH A MINIMUM WIDTH OF 8 FEET AND SURROUNDED BY A MINIMUM 8 INCH CURB SHALL BE PROVIDED TO DIRECT THE FLOW OF TRAFFIC AND TO PROVIDE A PLACE FOR SHADE TREES TO BE PLANTED.	ALL LANDSCAPE ISLANDS CONTAIN (1) SHADE TREE, EXCEPT IN AREAS WHERE THERE ARE SITE CONFLICTS.	COMPLIES
	(4)(d)	AT LEAST 1 TREE PER 10 SPACES SHALL BE PROVIDED WITHIN THE PARKING LOT. NO MORE THAN 12 CONTIGUOUS SPACES SHALL BE PERMITTED IN A ROW WITHOUT A LANDSCAPED INTERRUPTION OF AT LEAST 5 FEET, INCLUDING CURBING.	REQUIRED: 1 TREE PER 10 SPACES / 69 SPACES = 7 TREES PROPOSED: 8 TREES WITHIN PARKING LOT	COMPLIES
§360-4.8. SCREENING		ANY NON-RESIDENTIAL USE LOCATED ON A LOT WITHIN 25 FEET OF A RESIDENTIAL DISTRICT BOUNDARY SHALL BE SCREENED ALONG ANY SUCH LOT LINE. SCREENING SHALL CONSIST OF A TYPE OF FENCING OR A HEDGE OF SUCH TYPE AND SPACING AS MAY BE REQUIRED BY THE PLANNING BOARD OF AN INITIAL HEIGHT OF NOT LESS THAN FIVE FEET AND ADEQUATE ULTIMATELY TO SCREEN ALL OPERATIONS ON THE LOT FROM THE VIEW OF PROPERTIES IN THE ADJOINING RESIDENTIAL DISTRICT.	EXISTING EVERGREEN HEDGE TO REMAIN. REPLACEMENT EVERGREEN SHRUBS TO BE PROVIDED WITHIN HEDGEROW TO FILL IN GAPS.	COMPLIES

PLANT SCHEDULE						
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREE(S)						
ARA	1	ACER RUBRUM 'ARMSTRONG'	ARMSTRONG COLUMNAR RED MAPLE	2 1/2-3" CAL.	B+B	-
CCA	1	CARPINUS CAROLINIANA	AMERICAN HORNBEEAM	2 1/2-3" CAL.	B+B	-
GTIS	5	GLEDTISIA TRIACANTHOS VAR. INERMIS 'SHADEMASTER'	SHADEMASTER HONEYLOCUST	2 1/2-3" CAL.	B+B	-
ORNAMENTAL TREE(S)						
BND	5	BETULA NIGRA 'DURA HEAT'	DURA HEAT RIVER BIRCH	10-12'	B+B	-
MSDR	3	MALUS 'SNOWDRIFT'	SNOWDRIFT CRABAPPLE	2-2 1/2" CAL.	B+B	-
PSCS	2	PRUNUS 'SARGENTII' 'COLUMNARIS'	COLUMNAR SARGENT CHERRY	2-2 1/2" CAL.	B+B	-
EVERGREEN SHRUB(S)						
CHF	3	CEPHALOTAXUS HARRINGTONIA 'FASTIGIATA'	JAPANESE PLUM YEW	2 GAL.	CONTAINER	-
CHY	4	CEPHALOTAXUS HARRINGTONIA 'DUKE GARDENS'	DUKE GARDENS JAPANESE PLUM YEW	2 GAL.	CONTAINER	-
IGB	12	ILEX GLABRA 'GEM BOX'	GEM BOX INKBERY	1 GAL.	CONTAINER	-
IGC	44	ILEX GLABRA COMPACTA	DWARF INKBERY HOLLY	24-30"	#5 CAN	-
JCRG	5	JUNIPERUS CHINENSIS 'ROBUSTA GREEN'	ROBUSTA GREEN JUNIPER UPRIGHT	3-4'	B+B	-
JCS	57	JUNIPERUS CHINENSIS 'SPARTAN'	SPARTAN JUNIPER	3-4'	B+B	-
JHBH	94	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	BAR HARBOR CREEPING JUNIPER	15-18" SPRD.	#3 CAN	spaced @ 36" o.c.
TMH	25	TAXUS X MEDIA 'HATFIELDI'	HATFIELD YEW	24-30"	B+B	-
DECIDUOUS SHRUB(S)						
CAH	22	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	SWEET PEPPERBUSH	18-24"	CONTAINER	-
CO	9	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	18-24"	CONTAINER	-
HOPW	13	HYDRANGEA QUERCIFOLIA 'PEE WEE'	PEE WEE HYDRANGEA	18-24"	CONTAINER	-
IVRS	38	ILEX VERTICILLATA 'RED SPRITE'	RED SPRITE WINTERBERRY HOLLY	3 GAL.	CONTAINER	-
RAGL	163	RHUS AROMATICA 'GRO LOW'	GRO LOW FRAGRANT SUMAC	30-36"	CONTAINER	spaced @ 24" o.c.
RRAD	6	ROSA 'RADRAZZ'	KNOCKOUT ROSE 'RADRAZZ'	#3 CAN	CONTAINER	-
GROUND COVER						
OSC	8	OSMUNDASTRUM CINNAMOMEUM	CINNAMON FERN	1 GAL.	CONTAINER	-
POAC	31	POLYSTICHUM ACROSTICHODES	CHRISTMAS FERN	1 GAL.	CONTAINER	-
PERENNIAL(S)						
ASPB	19	ASTILE JAPONICA PEACH BLOSSOM	PEACH BLOSSOM ASTILBE	1 PT.	CONTAINER	spaced @ 18" o.c.
AST	142	ASCEPIAS TUBEROSA	BUTTERFLY WEED	1 PT.	CONTAINER	spaced @ 18" o.c.
CHV	34	CHRYSOGONUM VIRGINIANUM	GOLDEN STAR	1 PT.	CONTAINER	spaced @ 18" o.c.
CVM	46	COREOPSIS VERTICILLATA 'MOONBEAM'	MOONBEAM COREOPSIS	2 GAL.	CONTAINER	spaced @ 18" o.c.
EPP	16	ECHINACEA PURPUREA 'PINK DOUBLE DELIGHT'	PINK DOUBLE DELIGHT CONEFLOWER	2 GAL.	CONTAINER	spaced @ 18" o.c.
LMV	292	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LILYTURF	1 PT.	CONTAINER	spaced @ 18" o.c.
NEP	30	NEPETA RACEMOSA 'WALKER'S LOW'	WALKER'S LOW CATMINT	2 GAL.	CONTAINER	spaced @ 24" o.c.
RFG	96	RUDEBECKIA FULGIDA 'CITY GARDEN'	CITY GARDEN BLACK-EYED SUSAN	2 GAL.	CONTAINER	spaced @ 18" o.c.
ORNAMENTAL GRASS(S)						
BGBA	169	BOUTELOUA GRACILIS 'BLONDE AMBITION'	BLONDE AMBITION BLUE GRAMA	1 GAL.	CONTAINER	spaced @ 18" o.c.
CAKF	53	CALAMAGROSTIS ARUNDINACEA 'KARL FOERSTER'	FEATHER REED GRASS	2 GAL.	CONTAINER	-
CFBZ	153	CAREX FLACCA 'BLUE ZINGER'	BLUE SEDGE	1 PT.	CONTAINER	spaced @ 18" o.c.
MSML	53	MISCHANTHUS SINENSIS 'MORNING LIGHT'	SILVER VARIEGATED MAIDEN GRASS	2 GAL.	CONTAINER	-
PVS	14	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	2 GAL.	CONTAINER	-
VINE(S)						
HAP	16	HYDRANGEA ANOMALA PETIOLARIS	CLIMBING HYDRANGEA	2 GAL.	CONTAINER	spaced @ 18" o.c.

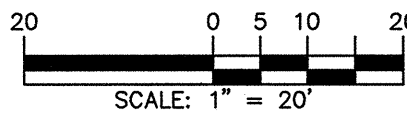
NOTES:  
1. IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN ON THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.  
2. ALL LANDSCAPE AREAS SHALL BE PERMANENTLY IRRIGATED. REUSE ANY STOCKPILED IRRIGATION COMPONENTS SALVAGED AND STOCKPILED DURING DEMOLITION THAT ARE IN GOOD WORKING ORDER.

NOTE:  
1. SEE SHEET LP501-0101 FOR LANDSCAPE NOTES AND DETAILS.

HIGHLAND AVENUE  
(US ROUTE 9W)  
(VARIABLE WIDTH RIGHT OF WAY)



Date	Description	No.
REVISIONS		
SIGNATURE	DATE SIGNED	
CERTIFIED LANDSCAPE ARCHITECT NY Lic. No. 001901-1		
<b>LANGAN</b>		
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.		
300 Kimball Drive Parsippany, NJ 07054		
T: 973.580.4900 F: 973.580.4901 www.langan.com		
Project		
NYACK HOSPITAL PARKING STRUCTURE		
BLOCK No. 1, LOT No. 74 VILLAGE OF NYACK		
ROCKLAND COUNTY NEW YORK		
Drawing Title		
LANDSCAPE PLAN		
Project No.	Drawing No.	
100754201	LP101	
Date	03/17/2020	
Drawn By	ML	
Checked By	DB	

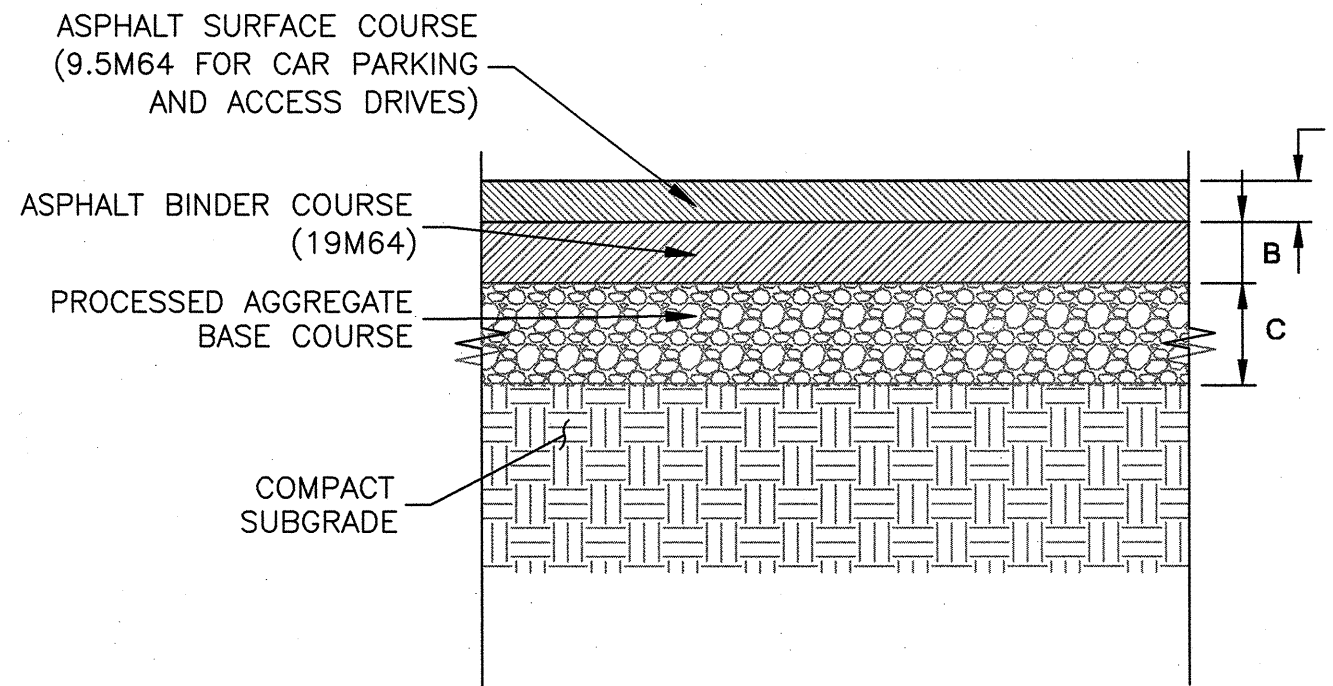








ASPHALT SECTION	SURFACE COURSE "A" (9.5M64)	BINDER COURSE "B" (19M64)	BASE "C"
CAR PARKING	1.5 INCHES	2.5 INCHES	6 INCHES

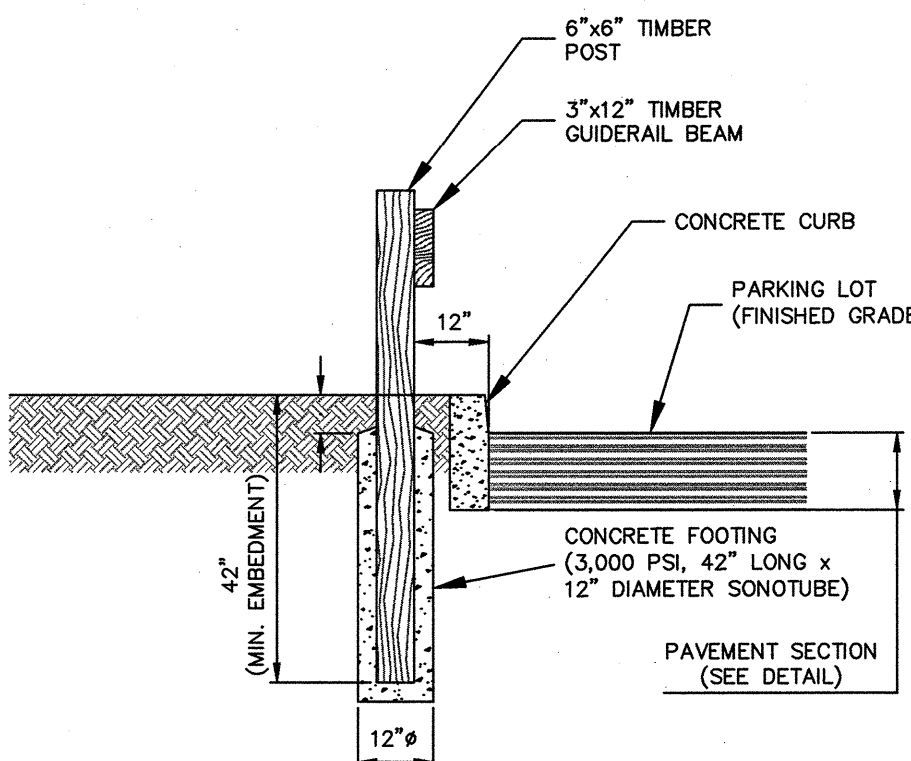


NOTES:

- PRIOR TO PLACEMENT OF SUBBASE, THE SUBGRADE SHALL BE PROOF ROLLED TO THE GEOTECHNICAL ENGINEER'S SATISFACTION. SOFT OR UNSTABLE AREAS SHALL BE REMEDIATED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
- PRIOR TO ANY PAVING ACTIVITIES, THE SUBBASE SHALL BE PROOF ROLLED TO THE GEOTECHNICAL ENGINEER'S SATISFACTION. SOFT OR UNSTABLE AREAS SHALL BE REMEDIATED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
- PAVING BASE COURSE SHALL BE CONSTRUCTED IN LAYERS NOT LESS THAN 2 INCHES AND NOT MORE THAN 4 INCHES THICK PER LIFT.
- ALL AREAS TO BE PAVED SHALL BE PROOFROLLED TO THE GEOTECHNICAL ENGINEER'S SATISFACTION, WITH AT LEAST 4 PASSES OF EITHER A SMOOTH ROLLER HAVING A MINIMUM STATIC DRUM WEIGHT OF 5-TONS OR A FULLY LOADED TANDEM DUMP TRUCK. ANY SOFT AREAS SHALL BE REMOVED AND REPLACED WITH CLEAN, GRANULAR, FREE-DRAINING SOIL. FILL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 12-INCHES AND SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
- WHERE NOT OTHERWISE SPECIFIED, ALL WORK TO BE PERFORMED IN ACCORDANCE WITH NYSDOT SPECIFICATIONS.

NTS

## ASPHALT PAVEMENT SECTION

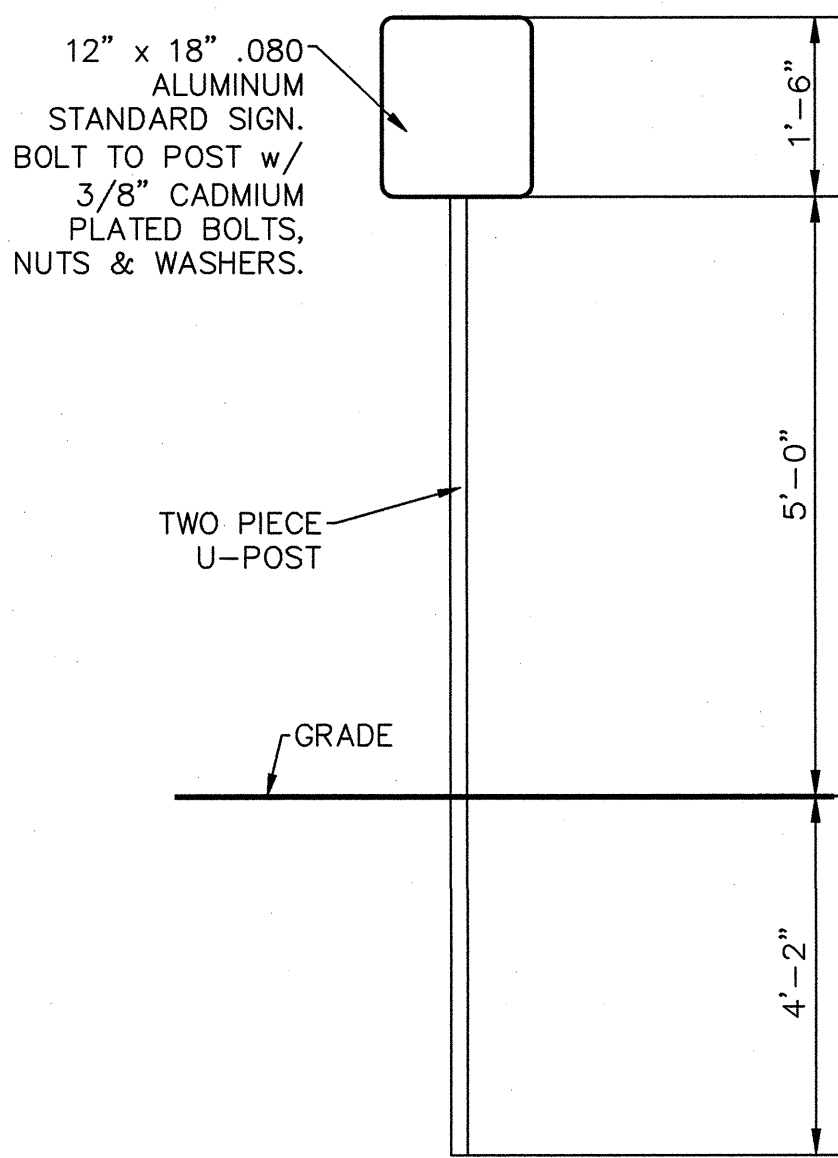


NOTES:

- WOOD RAIL TO BE LONGLEAF YELLOW PINE OR DOUGLAS FIR-STRUCTURAL GRADE OR BETTER.
- POSTS TO BE LONGLEAF YELLOW PINE OR DOUGLAS FIR-STRUCTURAL GRADE OR BETTER.
- ALL TIMBER SHALL BE PRESSURE TREATED.
- FACE OF RAIL SHALL BE PLACED ONE FOOT FROM THE FACE OF CURB, UNLESS OTHERWISE NOTED.
- POST SPACING SHALL NOT EXCEED 8' ON CENTER.
- CONTRACTOR TO PROVIDE SHOP DRAWING FOR REVIEW PRIOR TO INSTALLATION.

NTS

## TIMBER GUIDERAIL WITH TIMBER POSTS

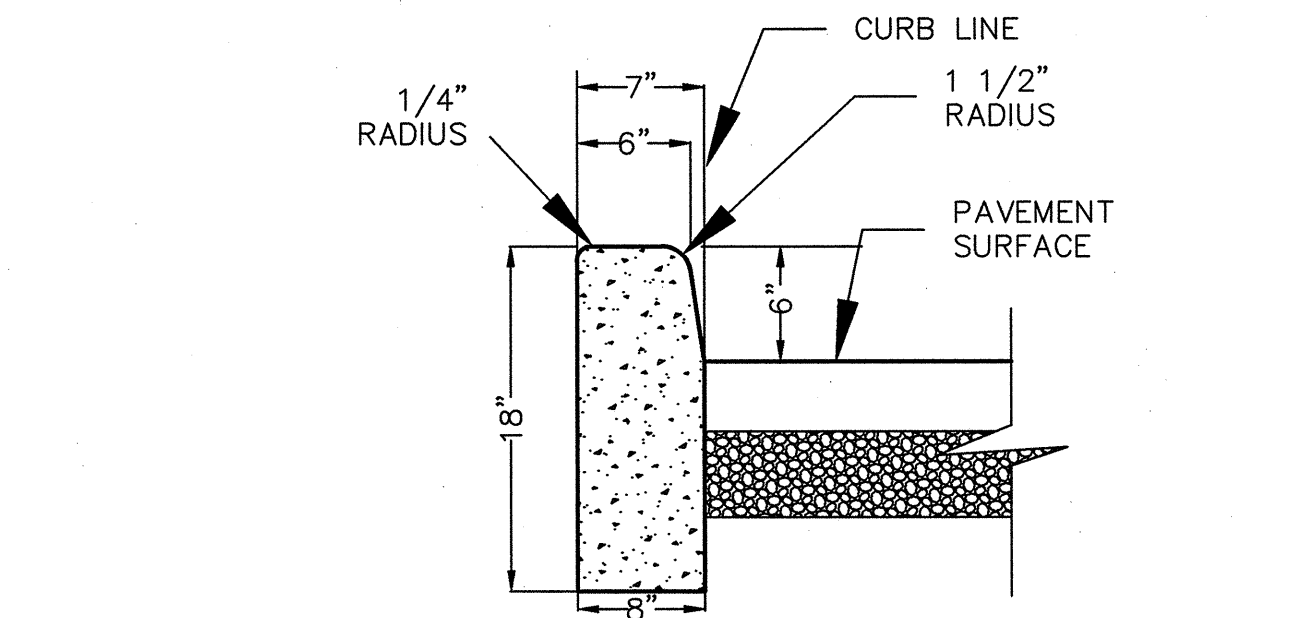


NOTES:

- ALL POSTS SHALL BE EMBEDDED 4'-2" MINIMUM BELOW GRADE.
- ALL STEEL POSTS AND BRACKETS SHALL BE CUT, BENT, AND HOLES PUNCHED AND DRILLED BEFORE GALVANIZING. GALVANIZING SHALL BE IN CONFORMANCE WITH CURRENT A.S.T.M. SPECIFICATION A123-78 (OR LATEST REVISED).
- POSTS MAY BE STEEL, ALUMINUM, OR TWO-PIECE U-POST.
- BOLTS SHALL NOT PROTRUDE MORE THAN 3/4" BEYOND THE NUT WHEN TIGHT BUT SHALL ENGAGE ALL THREADS IN THE NUT.

NTS

## SIGN POST

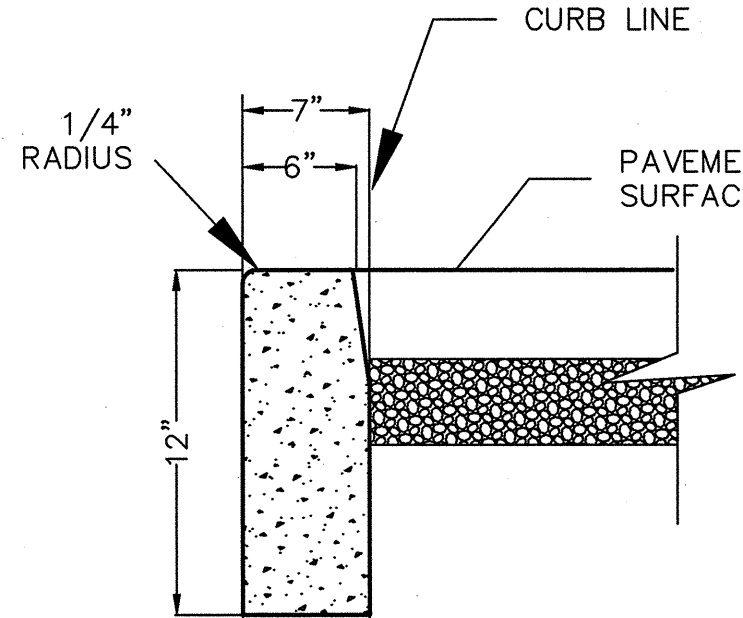


NOTES:

- CONCRETE SHALL BE 4,500 PSI CLASS "B" AIR-ENTRAINED CONCRETE.
- TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB AT 20 FOOT INTERVALS AND SHALL BE FILLED WITH PREFORMED BITUMINOUS JOINT FILLER.
- ALL CURBS SHALL BE INSTALLED ON AN APPROVED, COMPACTED SUBGRADE.

NTS

## 6-INCH CONCRETE CURB

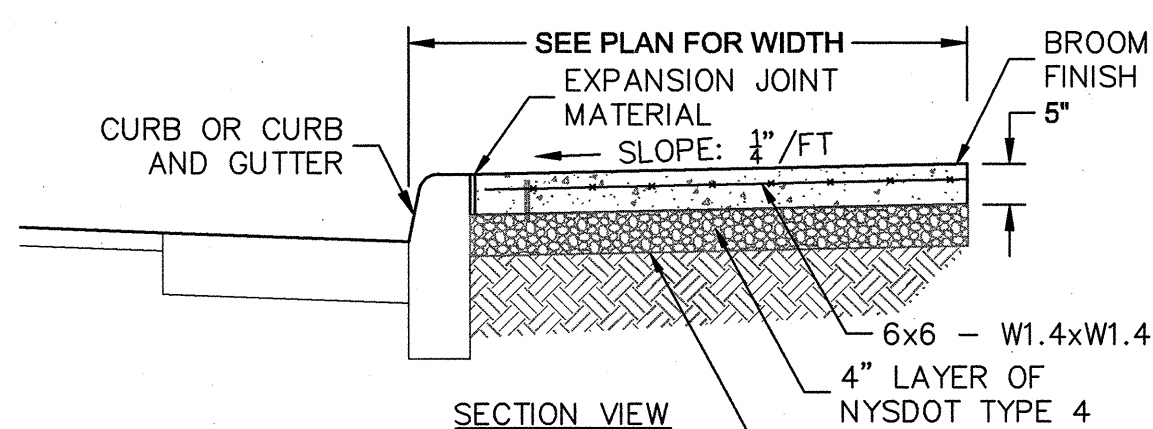
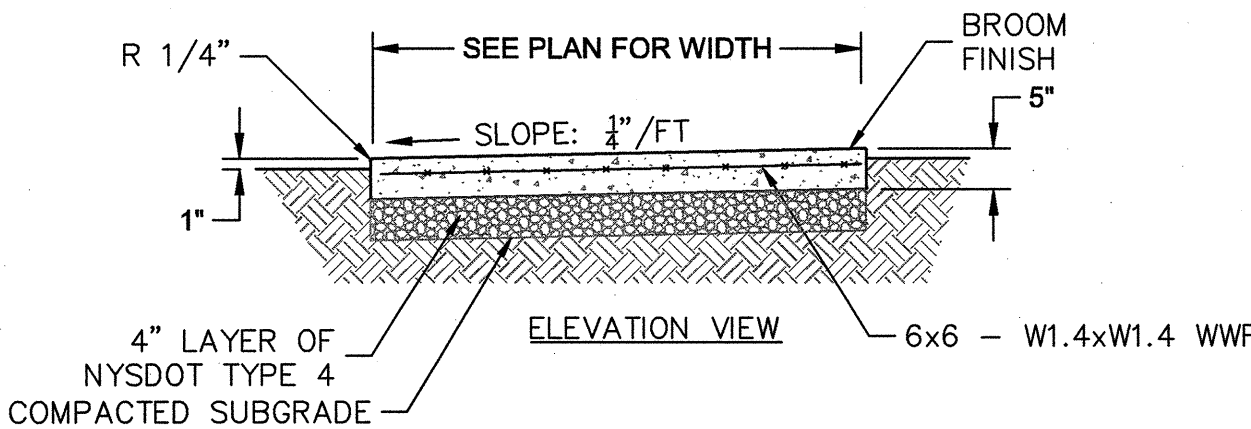


NOTES:

- CONCRETE SHALL BE 4,500 PSI CLASS "B" AIR-ENTRAINED CONCRETE.
- TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB AT 20 FOOT INTERVALS AND SHALL BE FILLED WITH PREFORMED BITUMINOUS JOINT FILLER.
- ALL CURBS SHALL BE INSTALLED ON AN APPROVED, COMPACTED SUBGRADE.

NTS

## FLUSH CURB

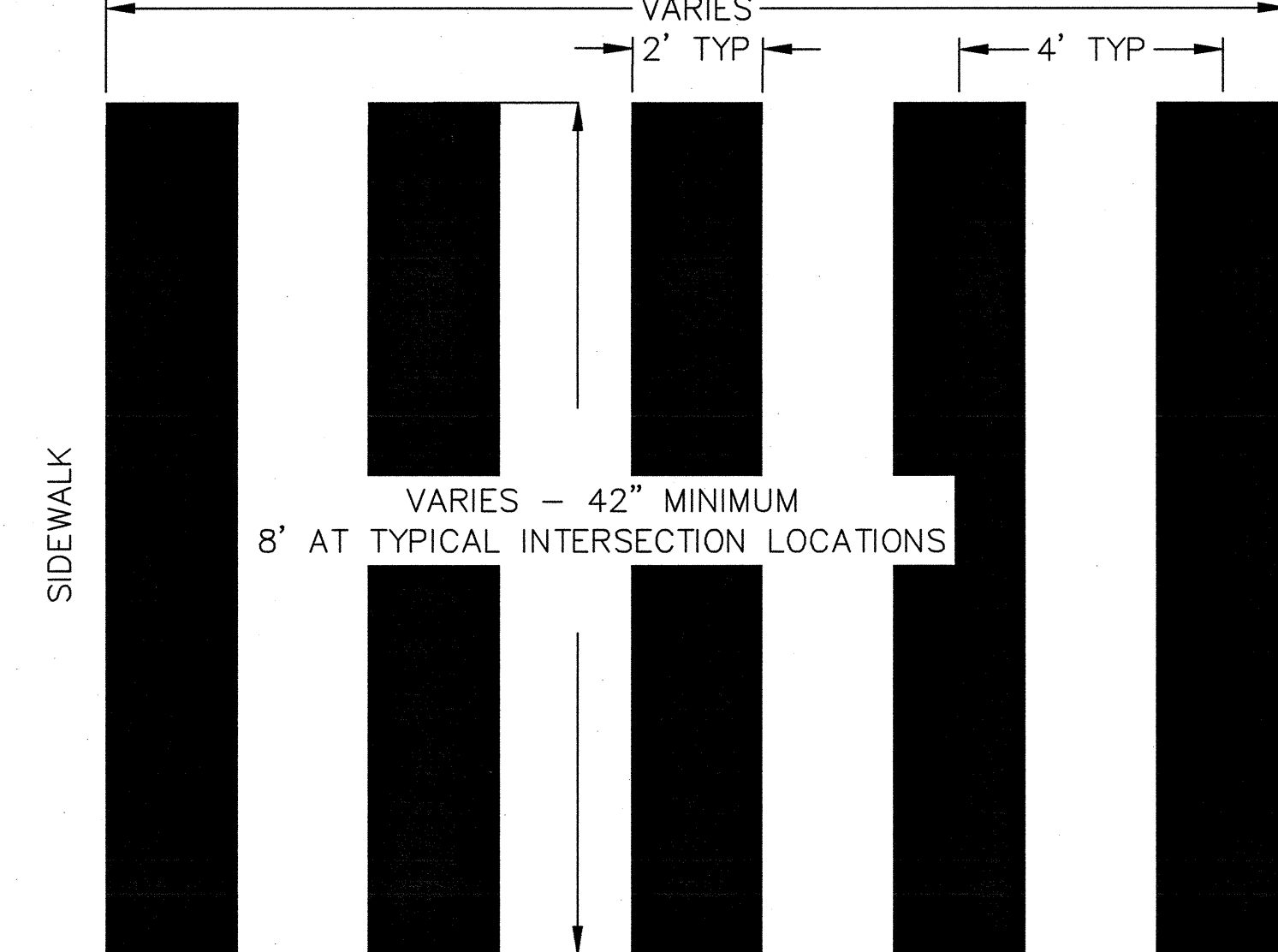


NOTES:

- TO BE USED WHERE ADJACENT TO CURB OR CURB AND GUTTER.
- CONCRETE TO BE 4,000 PSI.

NTS

## CONCRETE SIDEWALK

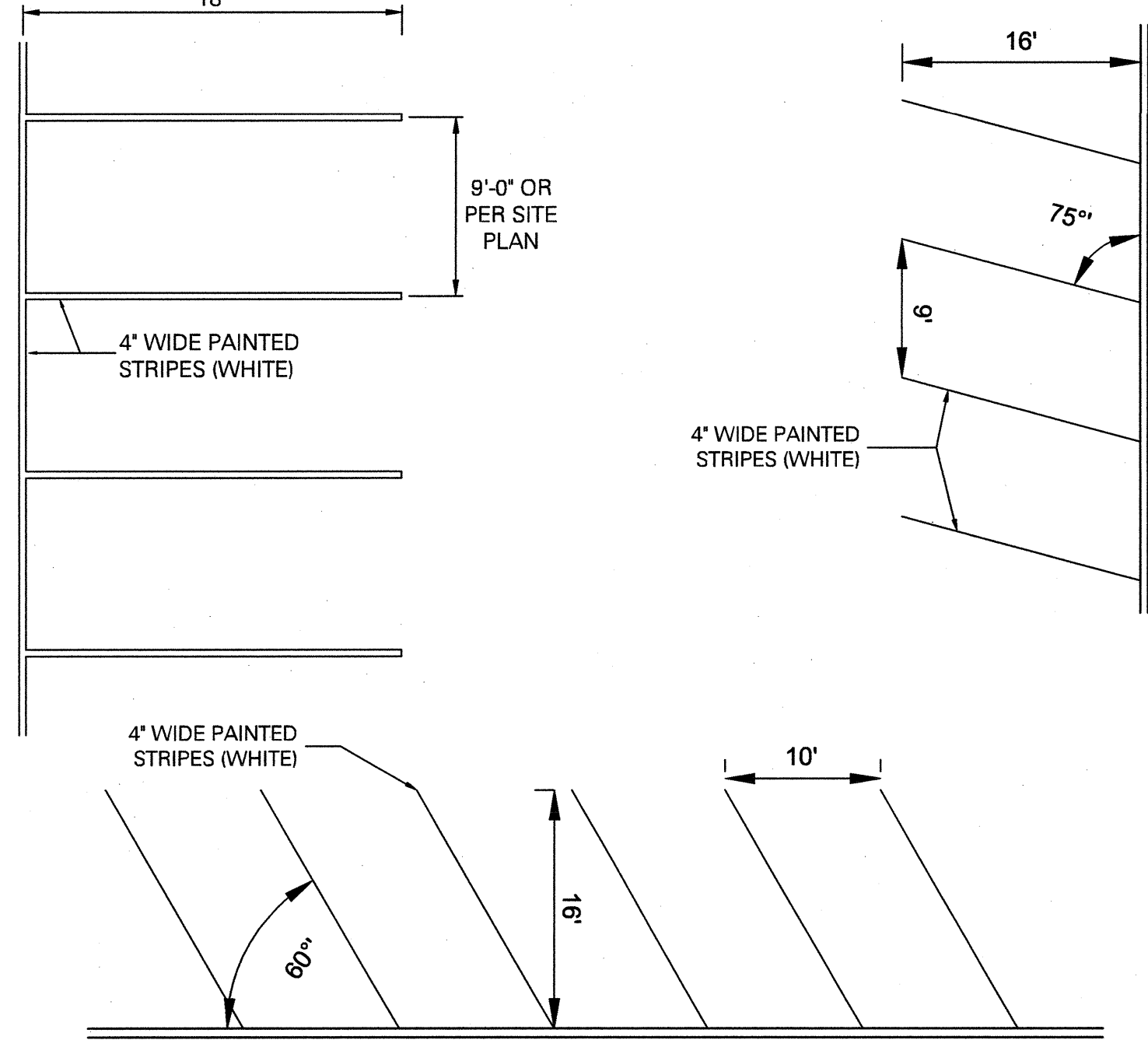


GENERAL NOTES:

- LADDER BARS SHALL BE 4'-0" CENTER TO CENTER, BEGINNING AT THE MARKED CENTERLINE OF THE ROADWAY.
- STRIPING TO BE SOLID WHITE PAINT AS SPECIFIED ON PROJECT PLANS.

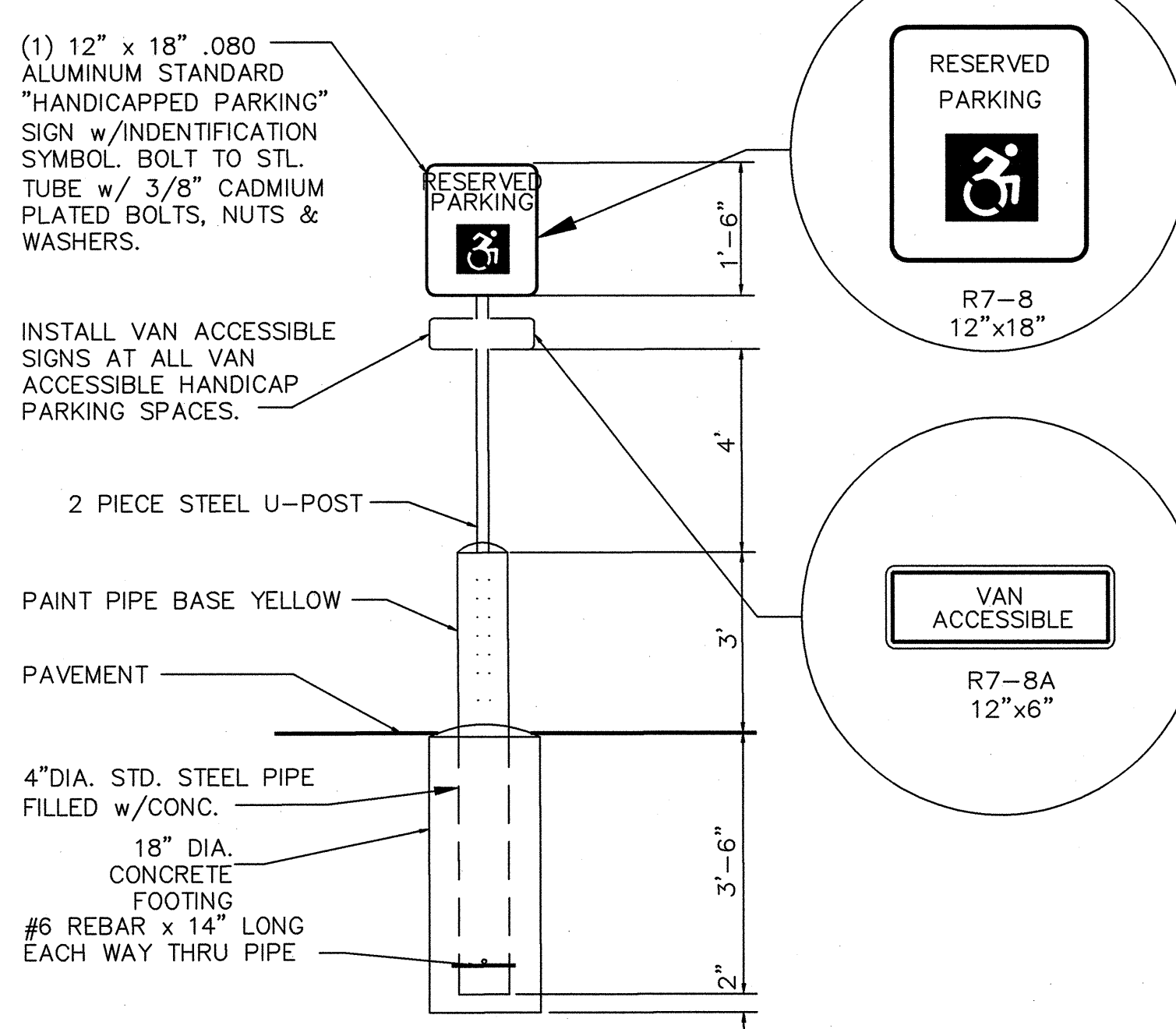
NTS

## TYPICAL CROSSWALK STRIPING



NTS

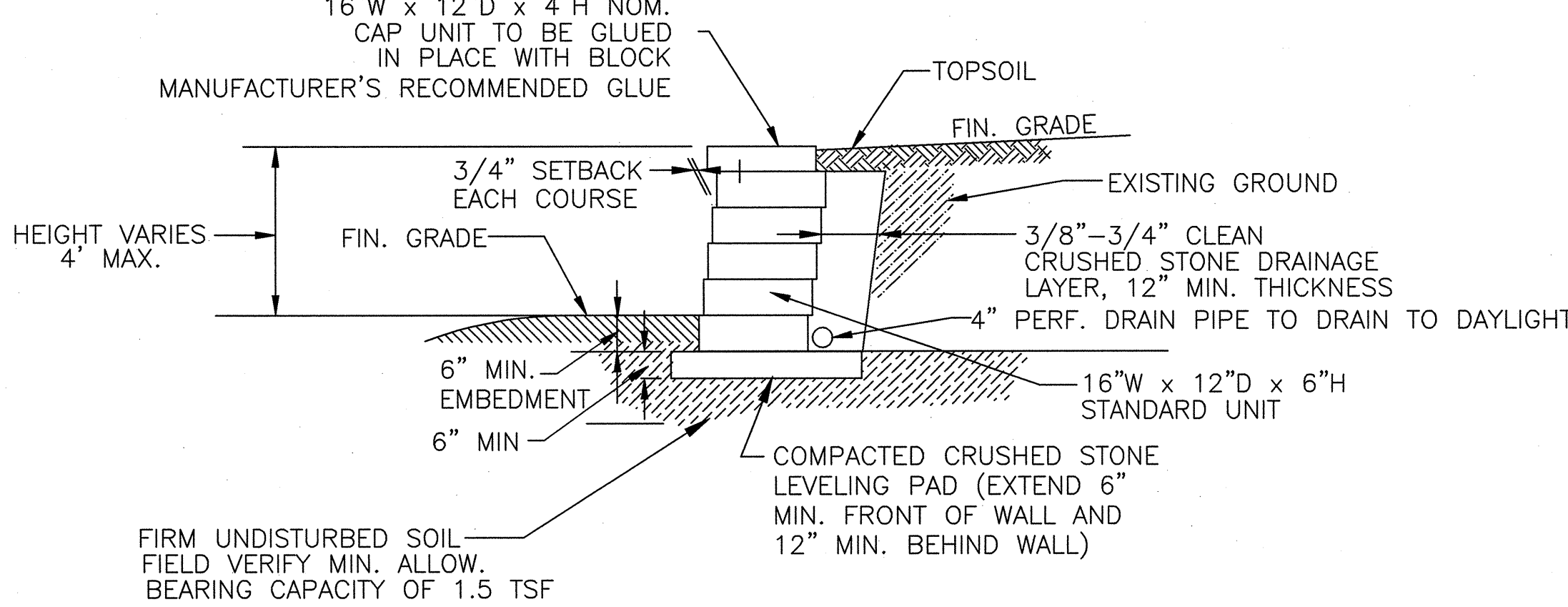
## PARKING STRIPING



NOTE:  
CONTRACTOR TO CONFIRM ALL ADA WORK IS PERFORMED IN ACCORDANCE WITH THE LATEST STANDARDS AND REGULATIONS PER APPLICABLE NYS AND FEDERAL CODES.

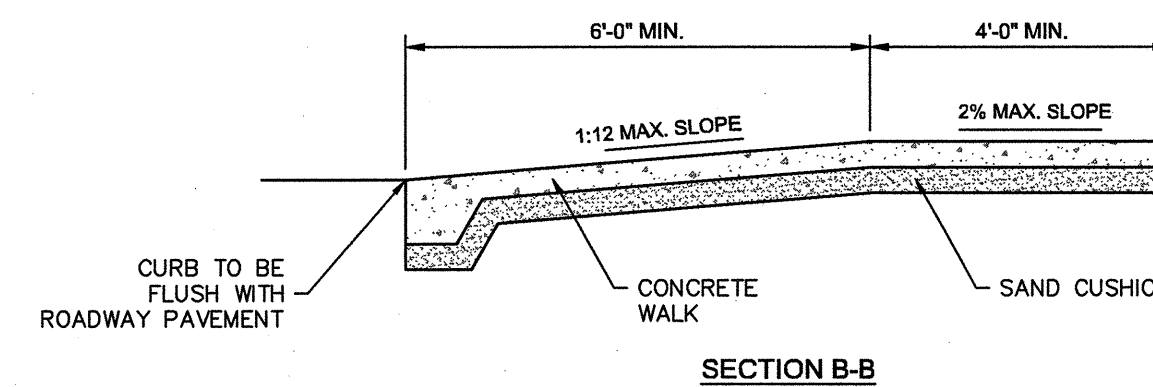
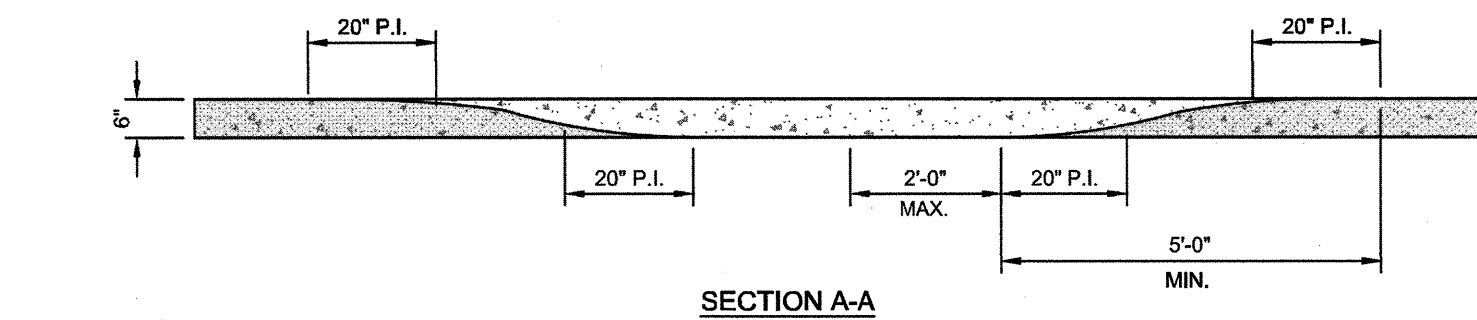
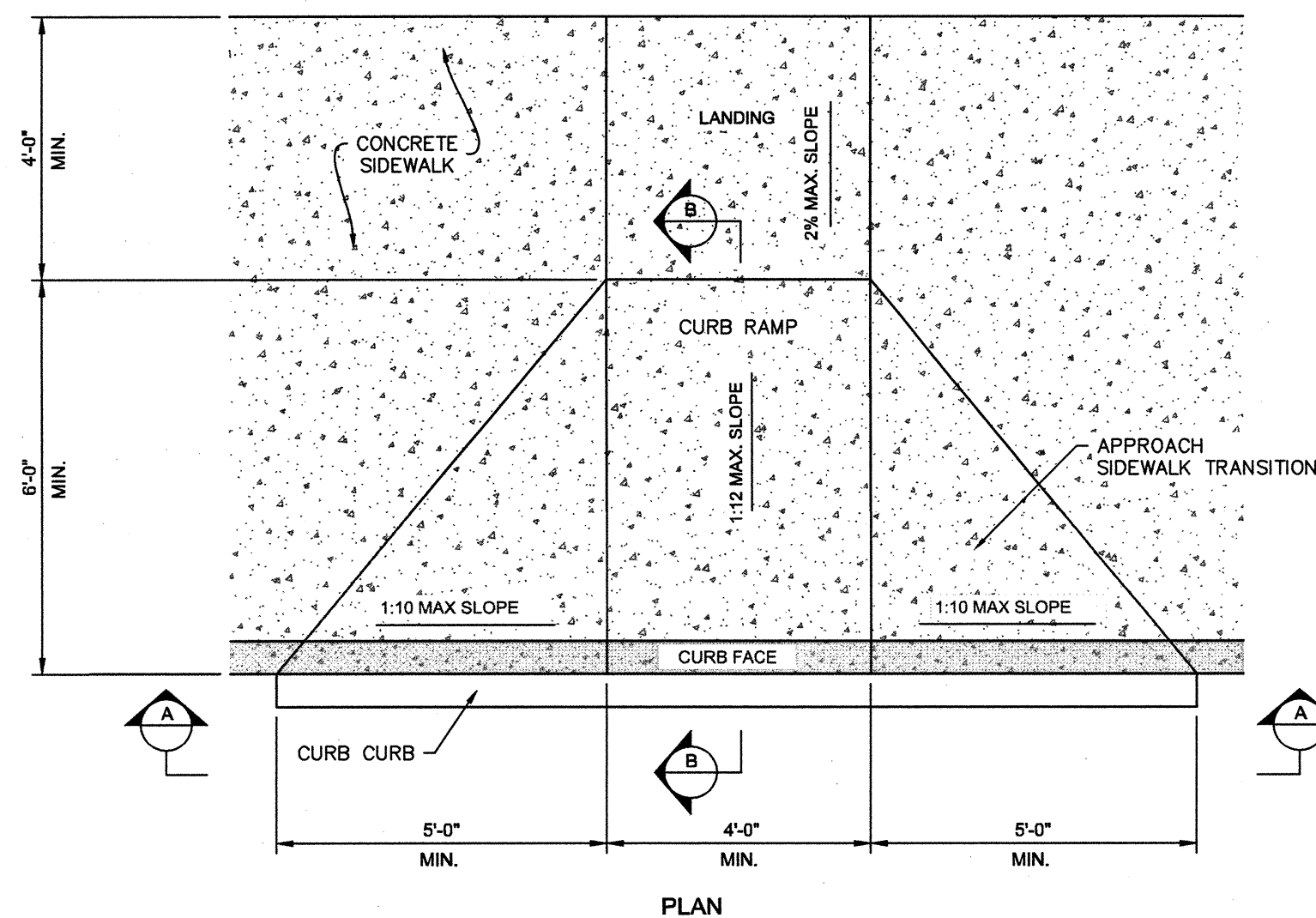
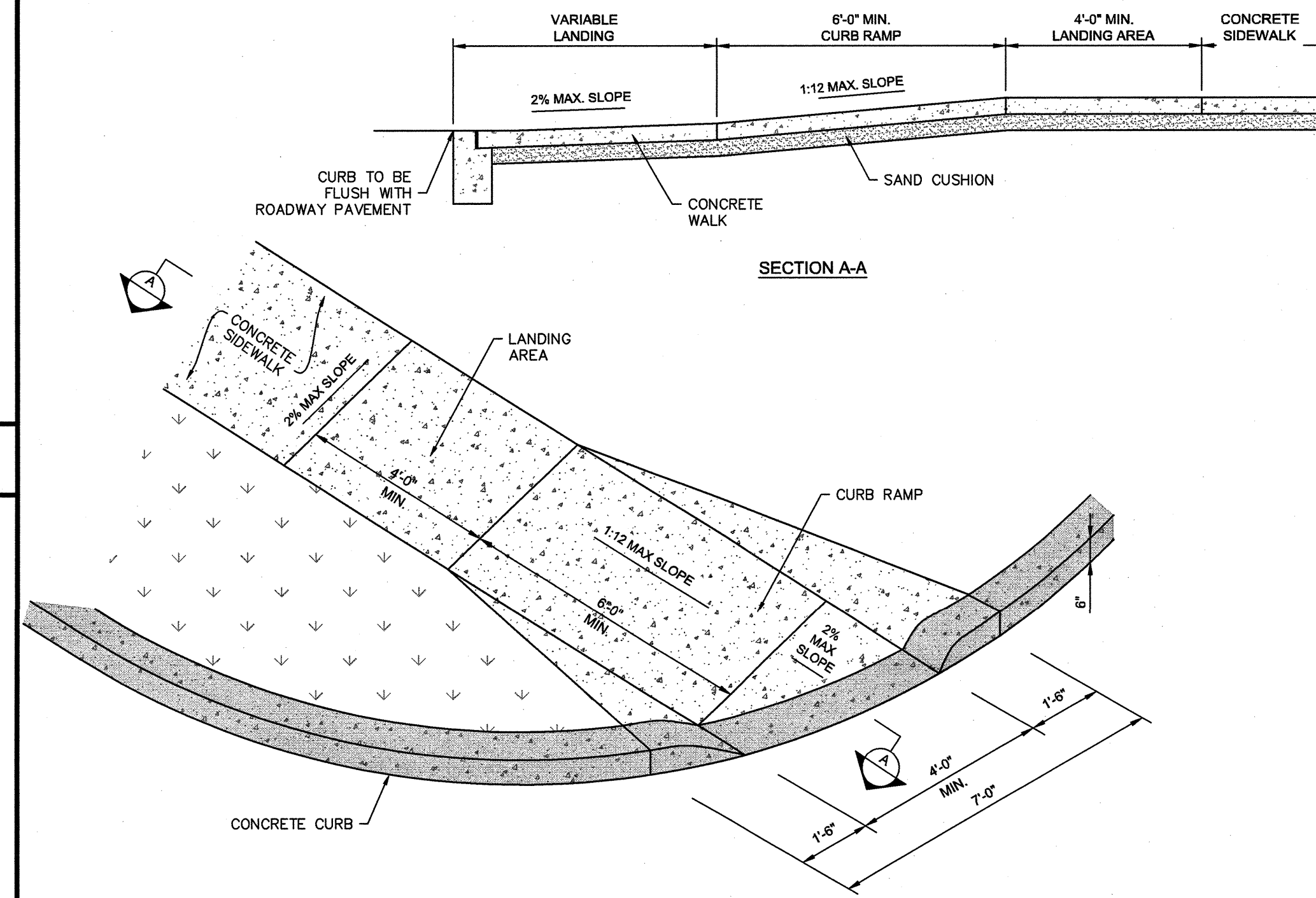
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## BOLLARD SIGN POST/ ADA PARKING SIGN



NTS

## MODULAR BLOCK WALL



## ADA CURB RAMPS

Date	Description	No.
------	-------------	-----

### REVISIONS

SIGNATURE: MICHAEL J. LANGAN  
PROFESSIONAL ENGINEER, N.Y. LICENSE NO. 102374

## LANGAN

Langan Engineering, Environmental, Surveying,  
Landscape Architecture and Geology, D.P.C.  
300 Kimball Drive  
Parsippany, NJ 07054

T: 973.560.4900 F: 973.560.4901 www.langan.com

Project

## NYACK HOSPITAL PARKING STRUCTURE

BLOCK No. 1, LOT No.74  
VILLAGE OF NYACK  
ROCKLAND COUNTY NEW YORK

Drawing Title

## DETAILS I

Project No.

100754201

Date

03/17/2020

Drawn By

VP

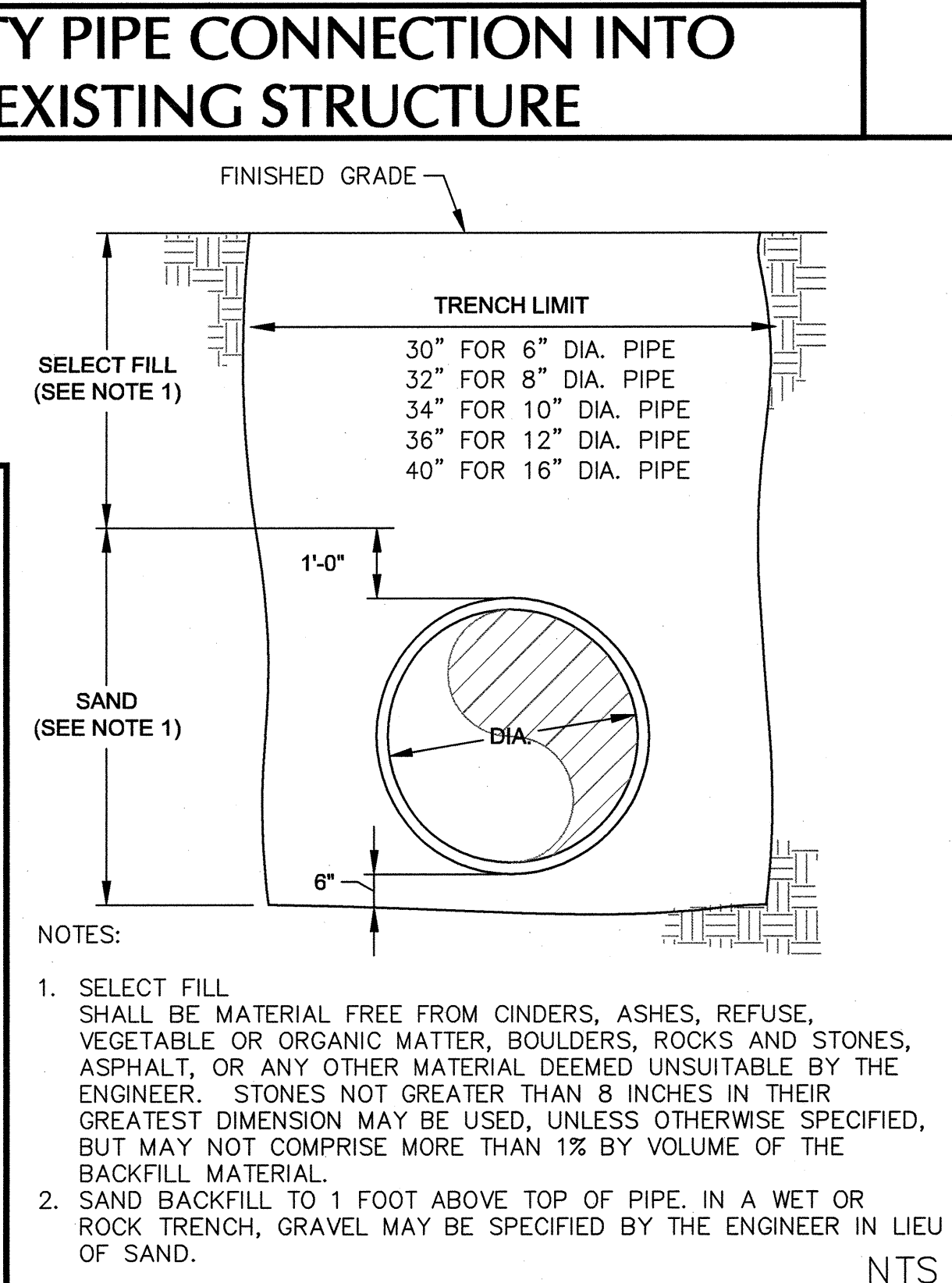
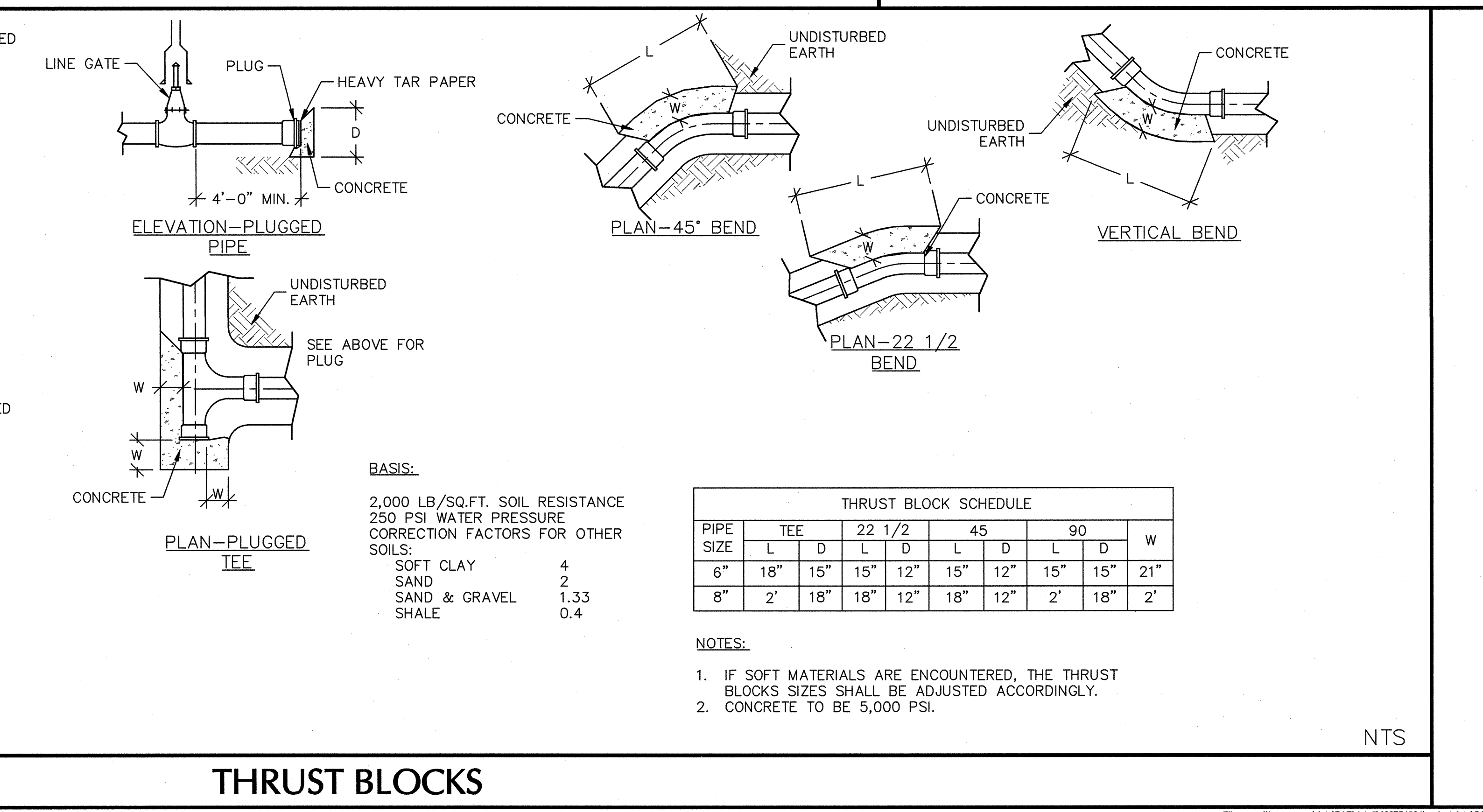
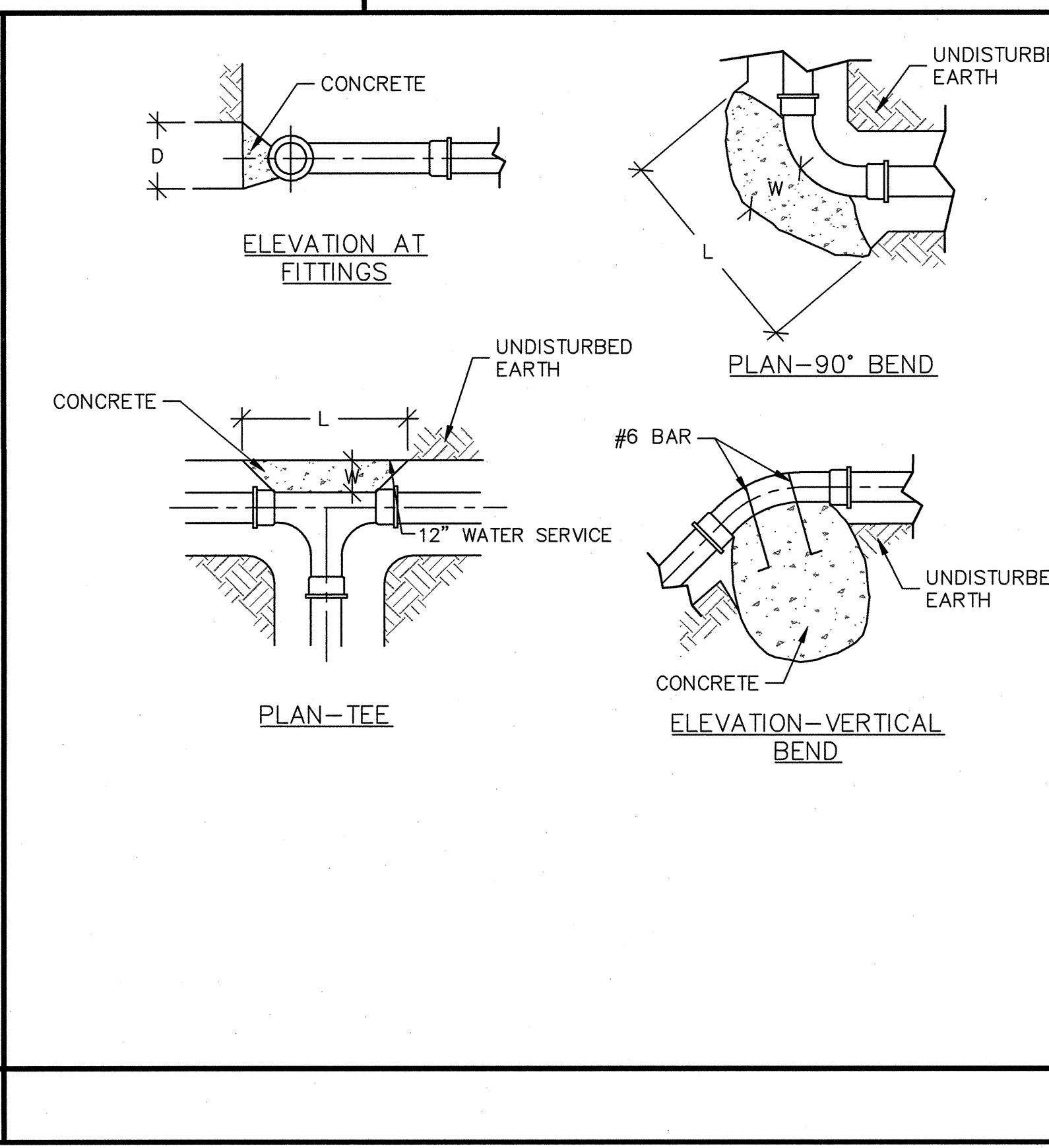
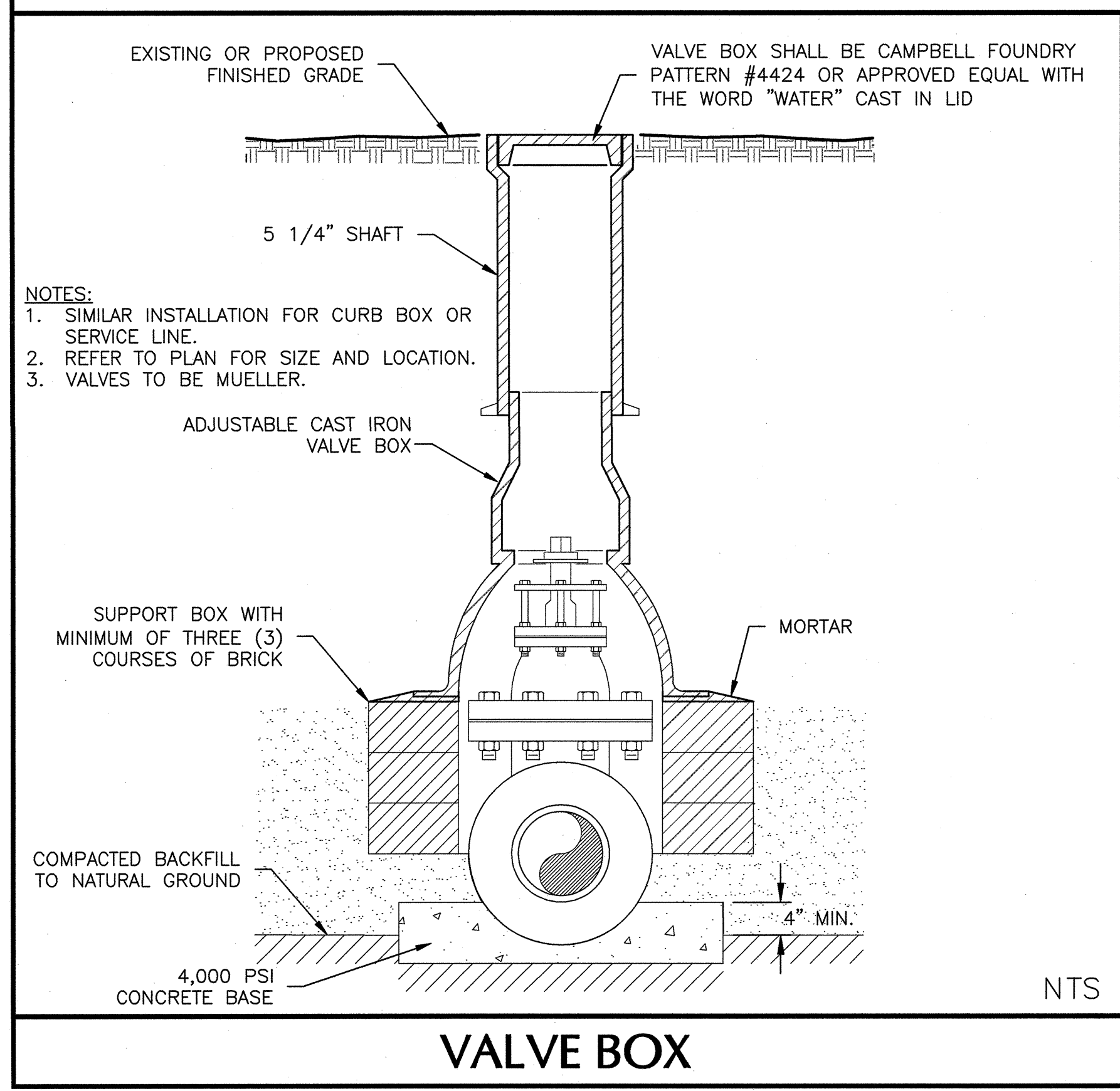
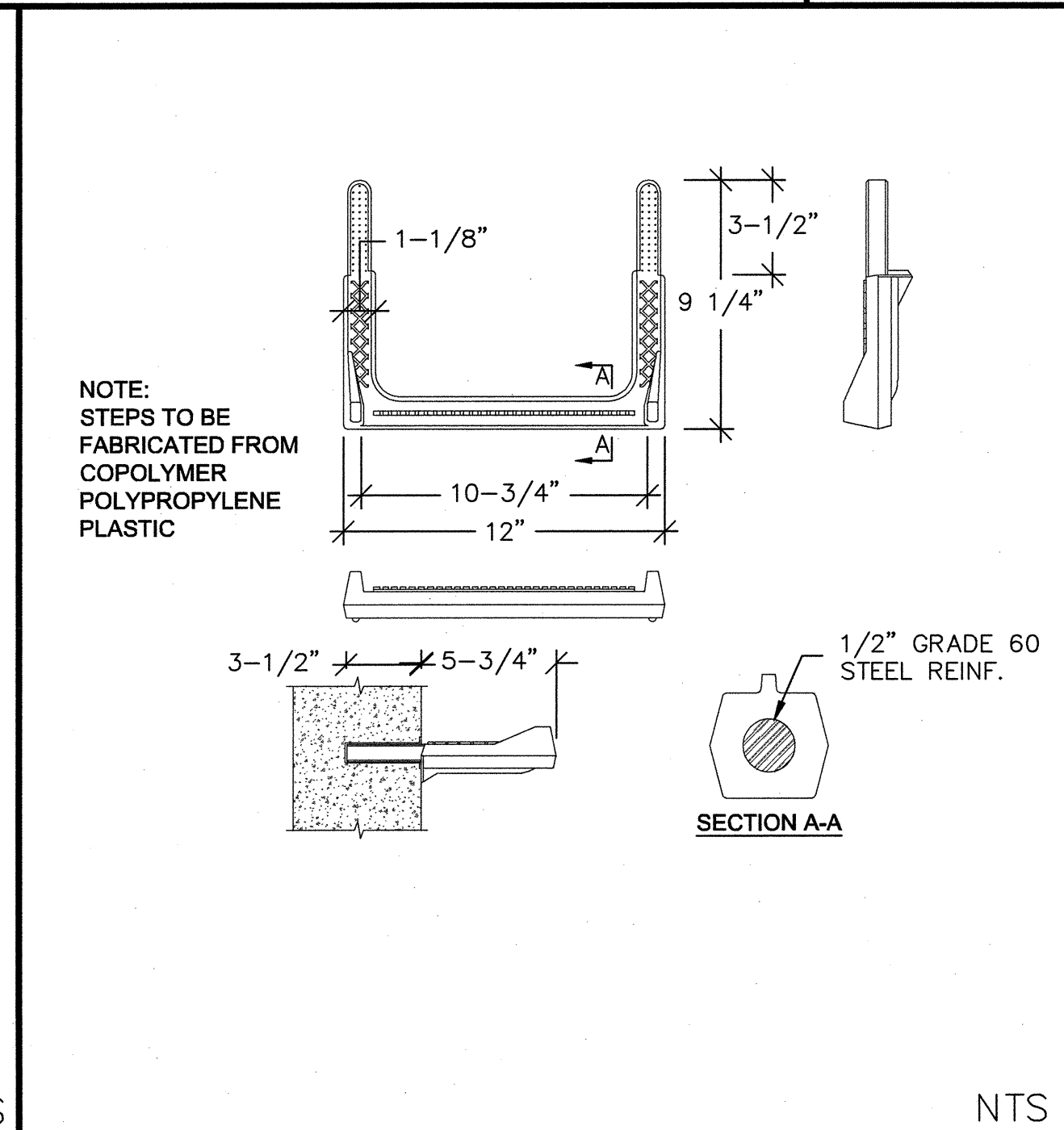
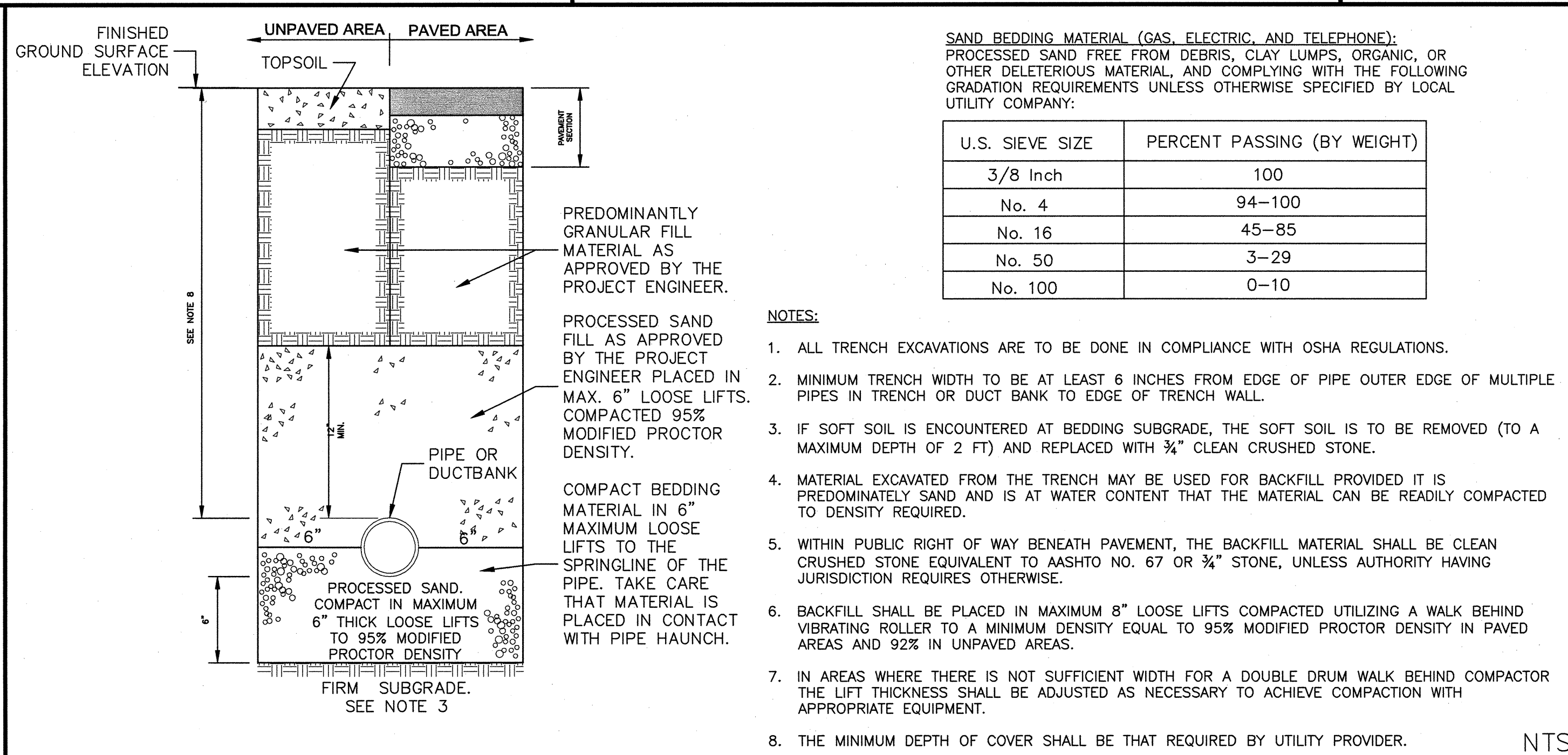
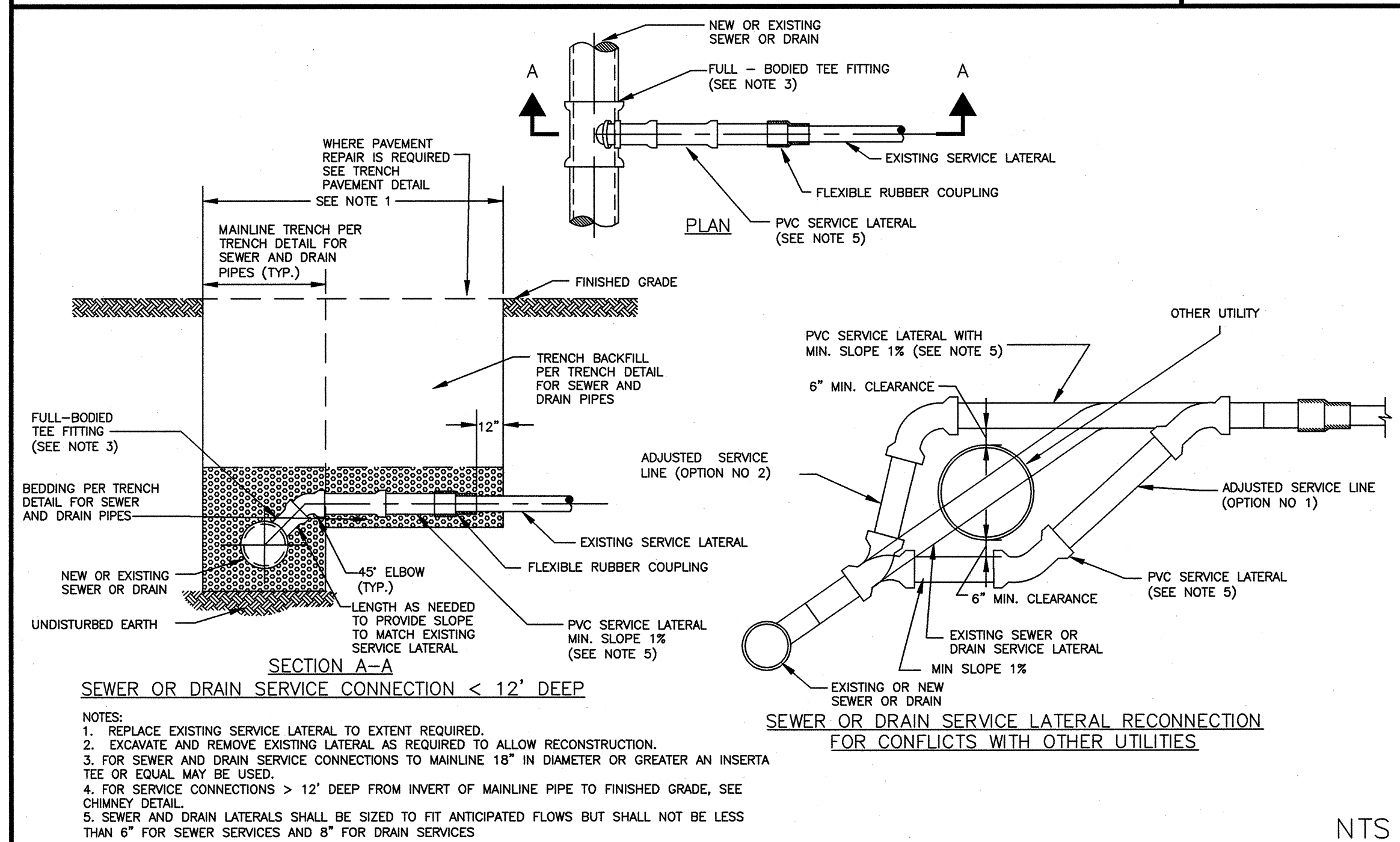
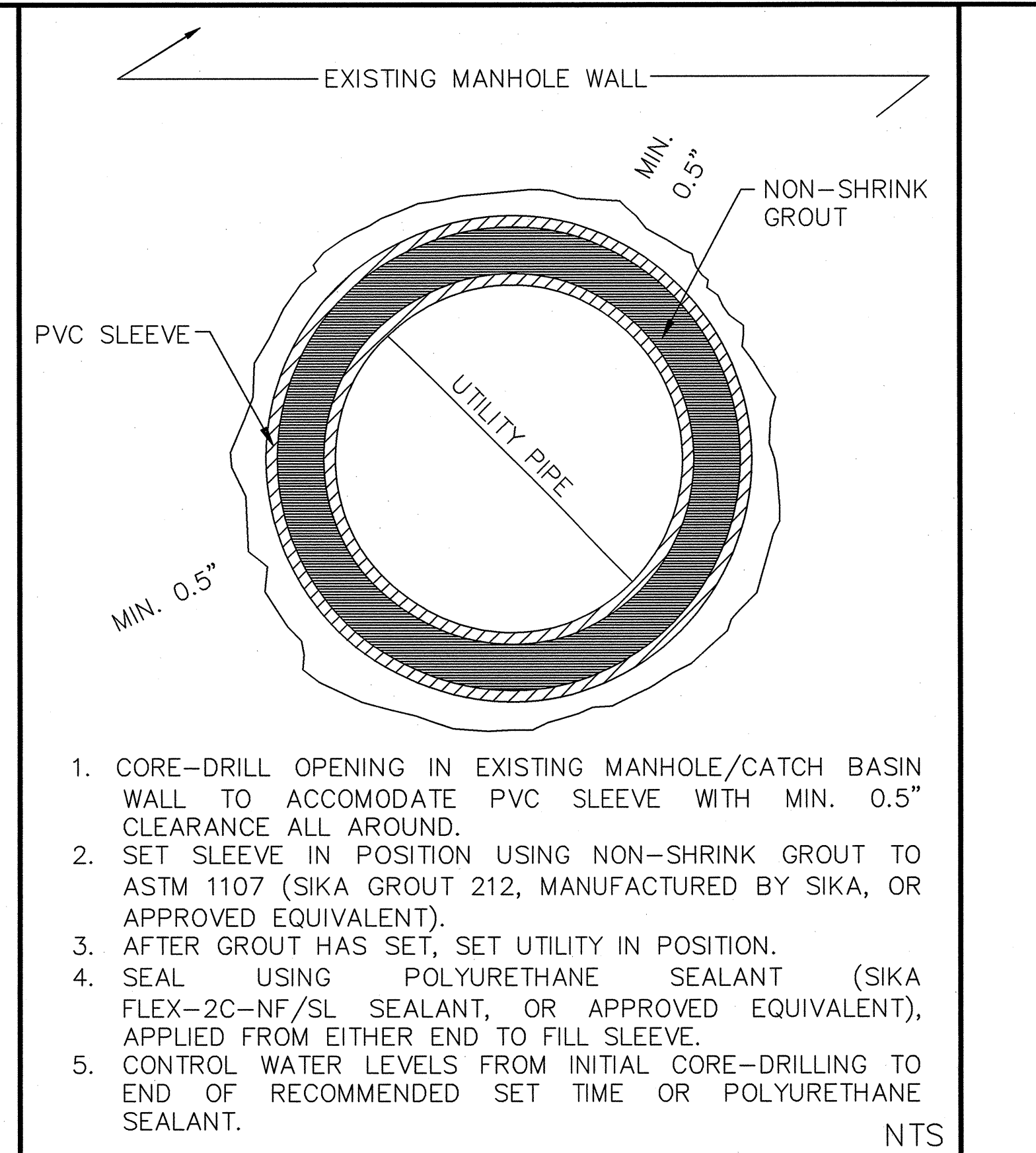
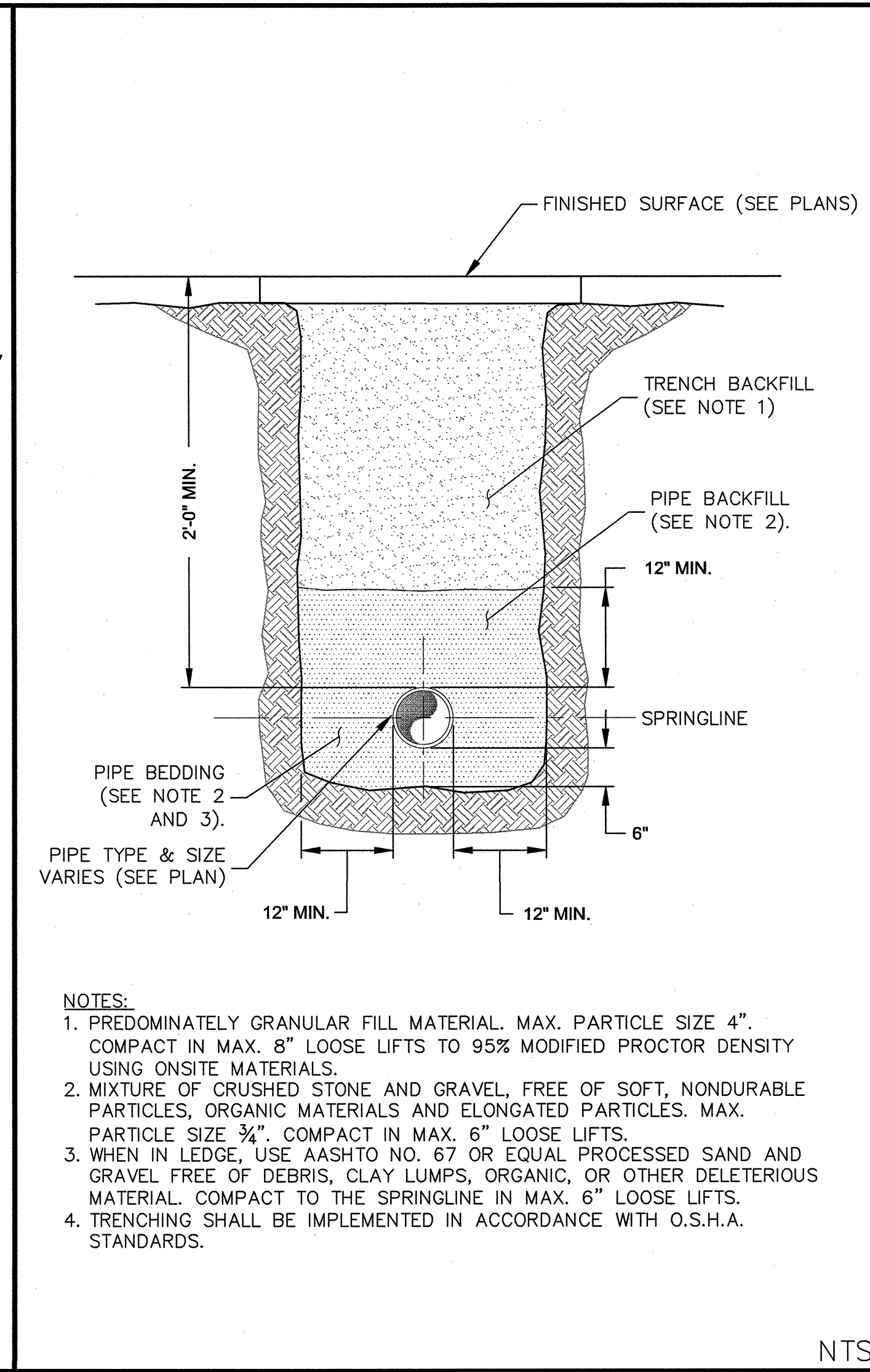
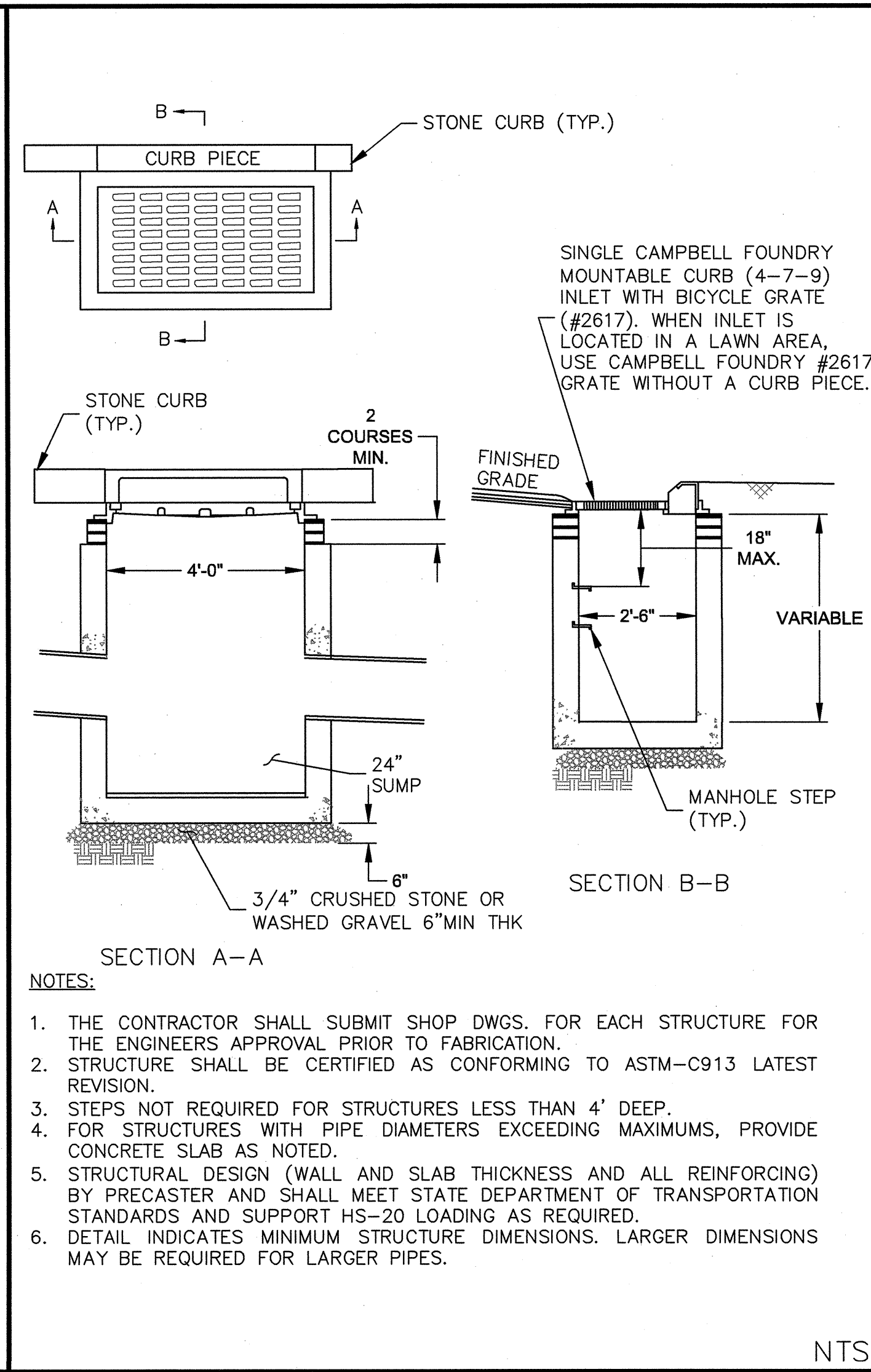
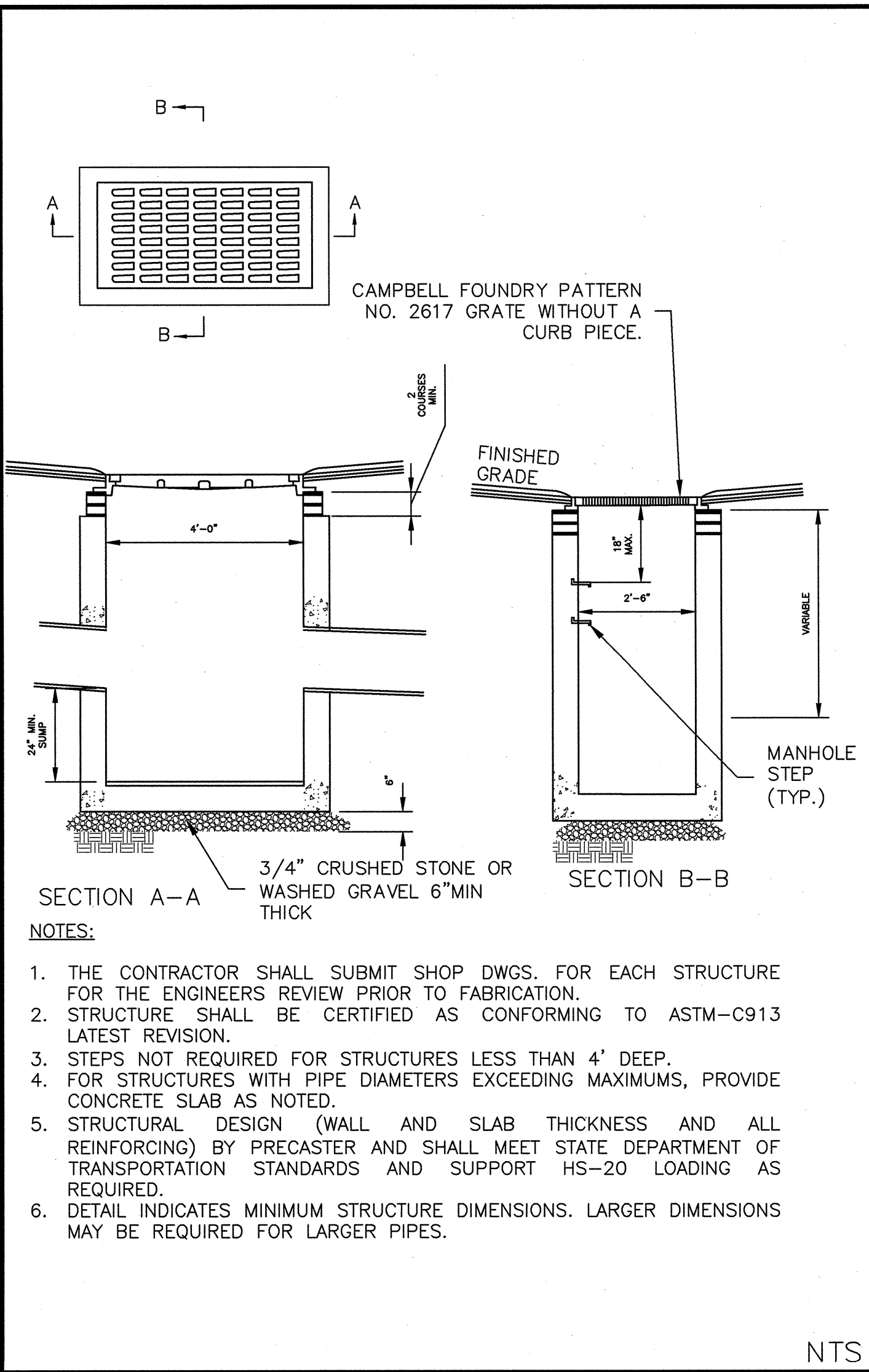
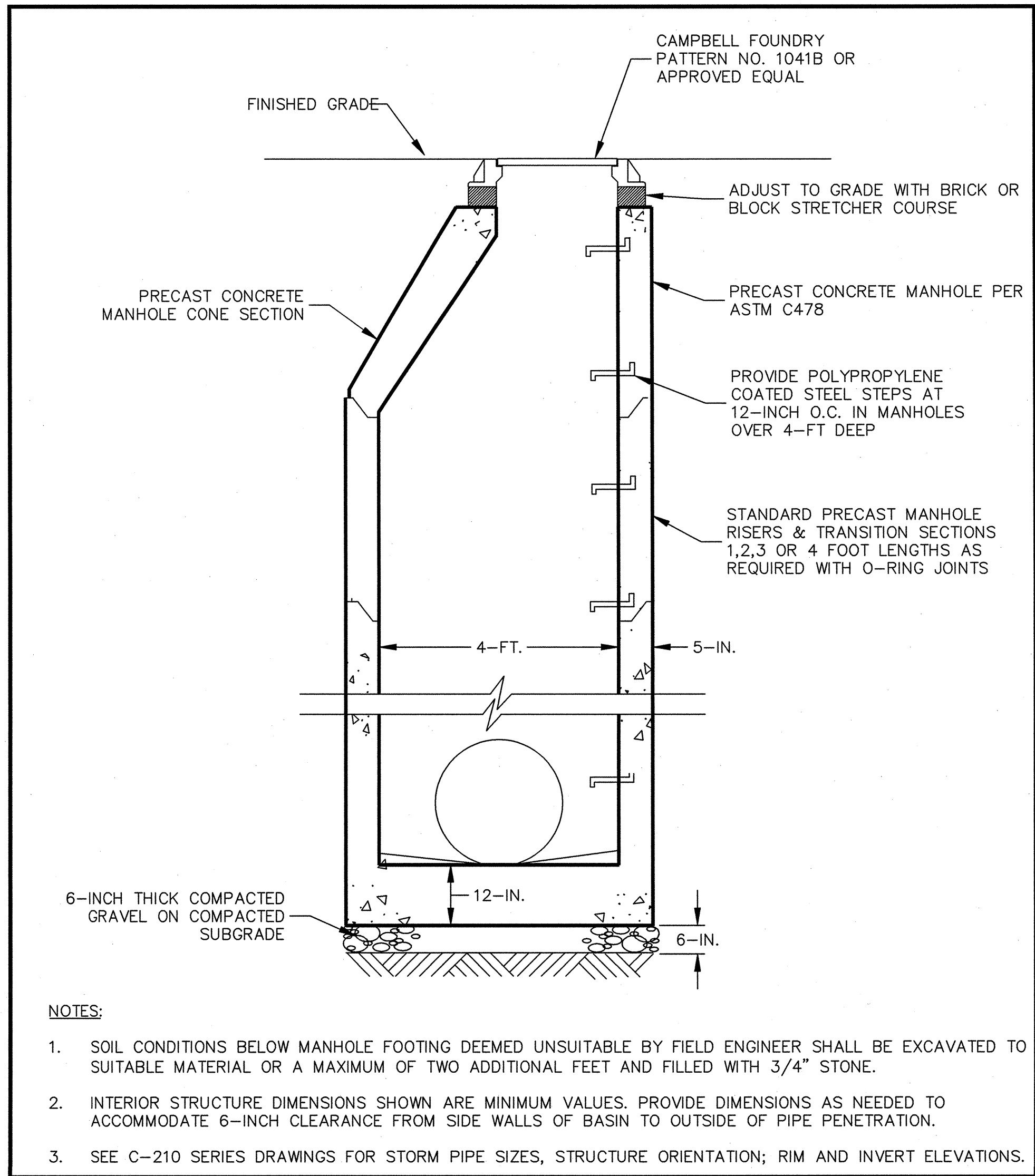
Checked By

LM

Drawing No.

CS501





**REVISIONS**

Date	Description	No.
REVISIONS		

**LANGAN**  
Langan Engineering, Environmental, Surveying,  
Landscape Architecture and Geology, D.P.C.  
300 Kimball Drive  
Parsippany, NJ 07054  
T: 973.560.4900 F: 973.560.4901 www.langan.com

**NYACK HOSPITAL  
PARKING STRUCTURE**  
BLOCK No. 1, LOT No.74  
VILLAGE OF NYACK  
ROCKLAND COUNTY NEW YORK

**DETAILS II**

Project No. 100754201  
Date 03/17/2020  
Drawn By VP  
Checked By LM

Drawing No. CS502





## TYPICAL CONTECH WATER QUALITY UNIT (CDS-5)



Filename: Y:\angan.com\data\PAR\data2\100754201\project data\CAD\01\sheetfile\Parking Garage\100754201-CS501-0101.dwg Date: 3/17/2020 Time: 20:22 User: vipatel Style Table: Langan.stb Layout: CS501