

# PRELIMINARY AND FINAL SITE PLAN

## FOR

### HSC BERLIN, LLC

# PROPOSED TRACTOR SUPPLY COMPANY

## BLOCK 1604, LOTS 1, 2, 3, 4, & 5; TAX MAP SHEET #16 - LATEST REV. DATED 08-11-05

## 901 NJSH ROUTE 73 SOUTH,

## TOWNSHIP OF BERLIN

## CAMDEN COUNTY, NEW JERSEY

### 200' PROPERTY OWNERS LIST

#### TOWNSHIP OF BERLIN

PROPERTY OWNER	BLOCK	LOT
FIBBANO ASSOCIATES, LLC 1300 ROUTE 38 CHERRY HILL, NJ 08002	1603	1
JACKSON POINTE, LLC C/O FAGULISO 334 STOKES ROAD SUITE - 58 MEDFORD, NJ 08055	1604	1
JACKSON POINTE, LLC 334 STOKES ROAD SUITE - 58 MEDFORD, NJ 08055	1604	2, 3, 4, 5
JACKSON-TAUNTON-COLLINS LLC 1280 W NEWPORT CENTER DRIVE DEERFIELD BEACH, FL 33442	1606	12
WEST BERLIN ROUTE 73 LLC 1401 BROAD STREET CLIFTON, NJ 07013	1608	6
VERIZON - NJ - C/O DUFF & PHELPS PO BOX 2749 ADDISON, TX 75001	5000	1

#### ALSO TO BE NOTIFIED:

ATLANTIC CITY ELECTRIC 5100 HARDING HIGHWAY MAYS LANDING, NJ 08330 ATTN: JOSEPH RIDING
PUBLIC SERVICE ELECTRIC & GAS 89 PARK PLAZA - 168 NEWARK, NJ 07102
COMCAST CABLE 1250 MADONWILDED-BERLIN ROAD CHERRY HILL, NJ
SOUTH JERSEY GAS ONE SOUTH JERSEY PLAZA, ROUTE 54 FOLSOM, NJ 08033
NEW JERSEY AMERICAN WATER 100 LINCOLN DRIVE VOORHEES, NJ 08043

BERLIN BOROUGH WATER DEPARTMENT 59 SOUTH WHITE HORSE PIKE BERLIN, NJ 08009
CAMDEN COUNTY PLANNING BOARD 2311 EGG HARBOR ROAD LINCOLNWOOD, NJ 08021
CAMDEN COUNTY MUNICIPAL UTILITIES AUTHORITY 1645 FERRY AVENUE CAMDEN, NJ 08104
STATE OF NEW JERSEY DEPARTMENT OF TRANSPORTATION 1035 PARKWAY AVENUE BOX 101 TRENTON, NJ 08625

BERLIN TOWNSHIP CLERK'S OFFICE 135 ROUTE 73 SOUTH WEST BERLIN, NJ 08091
BERLIN TOWNSHIP CHIEF OF POLICE 135 ROUTE 73 SOUTH WEST BERLIN, NJ 08091
NJ DOT REGION SOUTH PERMIT OFFICE ONE EXECUTIVE CAMPUS ROUTE 70 WEST CHERRY HILL, NJ 08002

NJDOT BUREAU OF MAJOR ACCESS PERMITS PO BOX 600 1035 PARKWAY AVENUE TRENTON, NJ 08625
COMMISSIONER OF TRANSPORTATION STATE OF NEW JERSEY 1035 PARKWAY AVENUE PO BOX 101 TRENTON, NJ 08625
CONSOLIDATED RAIL CORP REAL ESTATE DEPARTMENT 1000 HOWARD BOULEVARD, 4TH FLOOR MOUNT LAUREL, NJ 08054

ATLANTIC CITY ELECTRIC R/E & R/W 5100 HARDING HIGHWAY, SUITE 399 MAYS LANDING, NJ 08330
SOUTH JERSEY GAS COMPANY 1 SOUTH JERSEY PLAZA FOLSOM, NJ 08033
CAMDEN COUNTY PLANNING BOARD CAMDEN COUNTY COMPLEX 2311 EGG HARBOR ROAD LINCOLNWOOD, NJ 08021

PINELANDS COMMISSION PO BOX 359 15 SPRINGFIELD ROAD NEW LISBON, NJ 08064
WATERFORD TOWNSHIP 2131 AUBURN AVENUE ATCO, NJ 08004
CONSOLIDATED RAIL CORP REAL ESTATE DEPARTMENT 1000 HOWARD BOULEVARD, 4TH FLOOR MOUNT LAUREL, NJ 08054

#### BOROUGH OF BERLIN

PROPERTY OWNER	BLOCK	LOT
NJ DEPT TRANSPORTATION 1035 PARKWAY AVENUE BOX 101 TRENTON, NJ 08625	99	6
SINELNIK, GREGORY (EST) C/O SINELNIK A 70 GARDENS AVENUE BERLIN, NJ 08009	1601	1, 2
ALSO TO BE NOTIFIED:		

ATLANTIC CITY ELECTRIC R/E & R/W 5100 HARDING HIGHWAY SUITE 399 MAYS LANDING, NJ 08330
PINELANDS COMMISSION PO BOX 359 15 SPRINGFIELD ROAD NEW LISBON, NJ 08064
SOUTH JERSEY GAS COMPANY 1 SOUTH JERSEY PLAZA FOLSOM, NJ 08033

COMMISSIONER OF TRANSPORTATION STATE OF NEW JERSEY 1035 PARKWAY AVENUE PO BOX 101 TRENTON, NJ 08625
CAMDEN COUNTY PLANNING BOARD CAMDEN COUNTY COMPLEX 2311 EGG HARBOR ROAD LINCOLNWOOD, NJ 08021
BOROUGH OF BERLIN 50 SOUTH WHITE HORSE PIKE BERLIN, NJ 08009

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COMMISSIONER OF TRANSPORTATION STATE OF NEW JERSEY 1035 PARKWAY AVENUE PO BOX 101 TRENTON, NJ 08625
UFP EASTERN DIVISION INV 2801 S BELLING AVENUE NE GRAND RAPIDS, MI 49525

CONSOLIDATED RAIL CORP REAL ESTATE DEPARTMENT 1000 HOWARD BOULEVARD 4 <sup>TH</sup> FLOOR MOUNT LAUREL, NJ 08054	
<u>TOWNSHIP OF WATERFORD</u>	

ATLANTIC CITY ELECTRIC R/E & R/W 5100 HARDING HIGHWAY, SUITE 399 MAYS LANDING, NJ 08330
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CONSOLIDATED RAIL CORP REAL ESTATE DEPARTMENT 1000 HOWARD BOULEVARD, 4TH FLOOR MOUNT LAUREL, NJ 08054

### ZONING BOARD APPROVAL

APPROVED BY THE ZONING BOARD OF THE TOWNSHIP OF BERLIN, CAMDEN COUNTY, NEW JERSEY

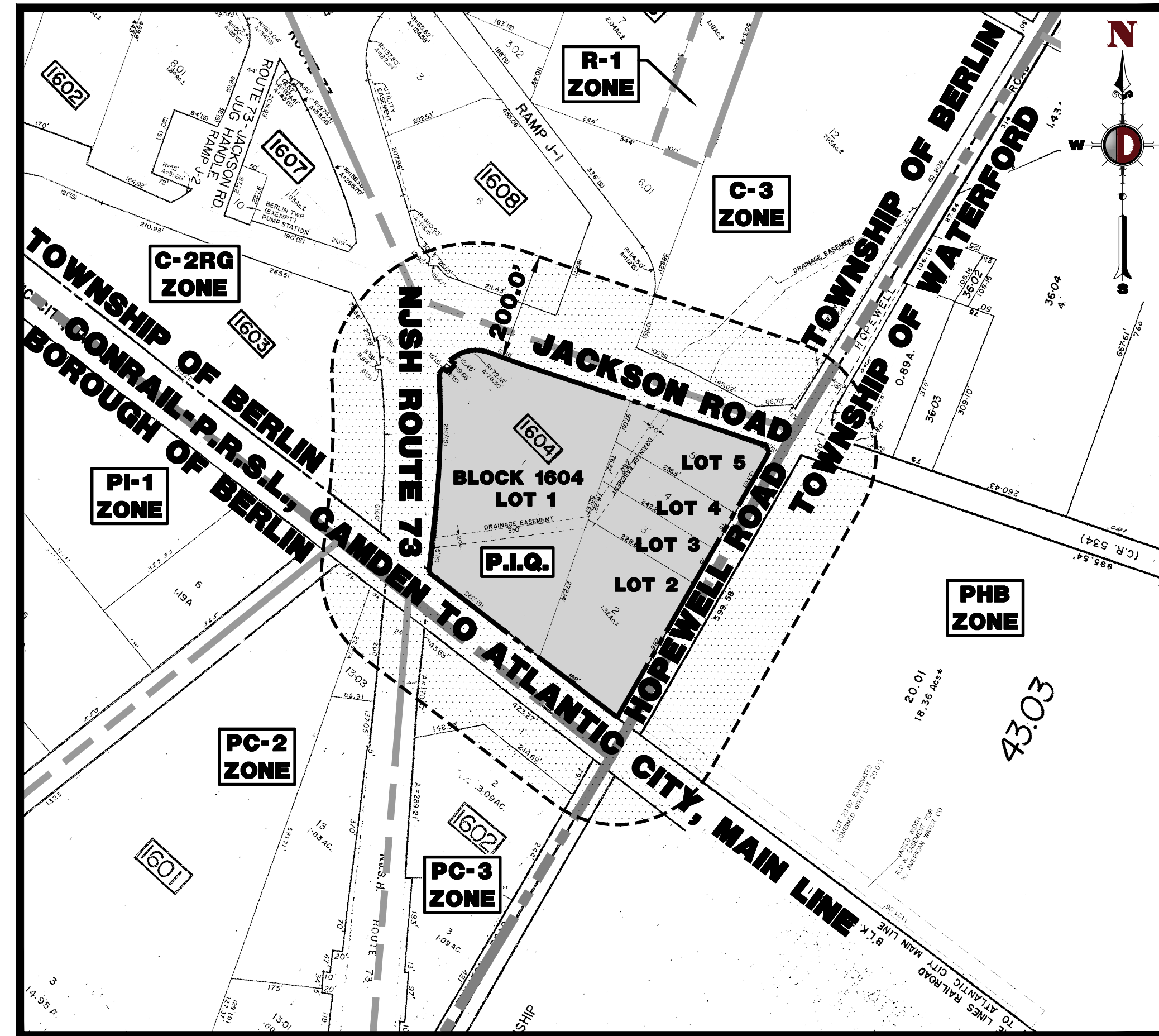
CHAIRMAN	DATE
SECRETARY	DATE
TOWNSHIP ENGINEER	DATE

#### PROTECT YOURSELF

ALL STATES REQUIRE NOTIFICATION OF DOWNGRADES, EROSION, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE.

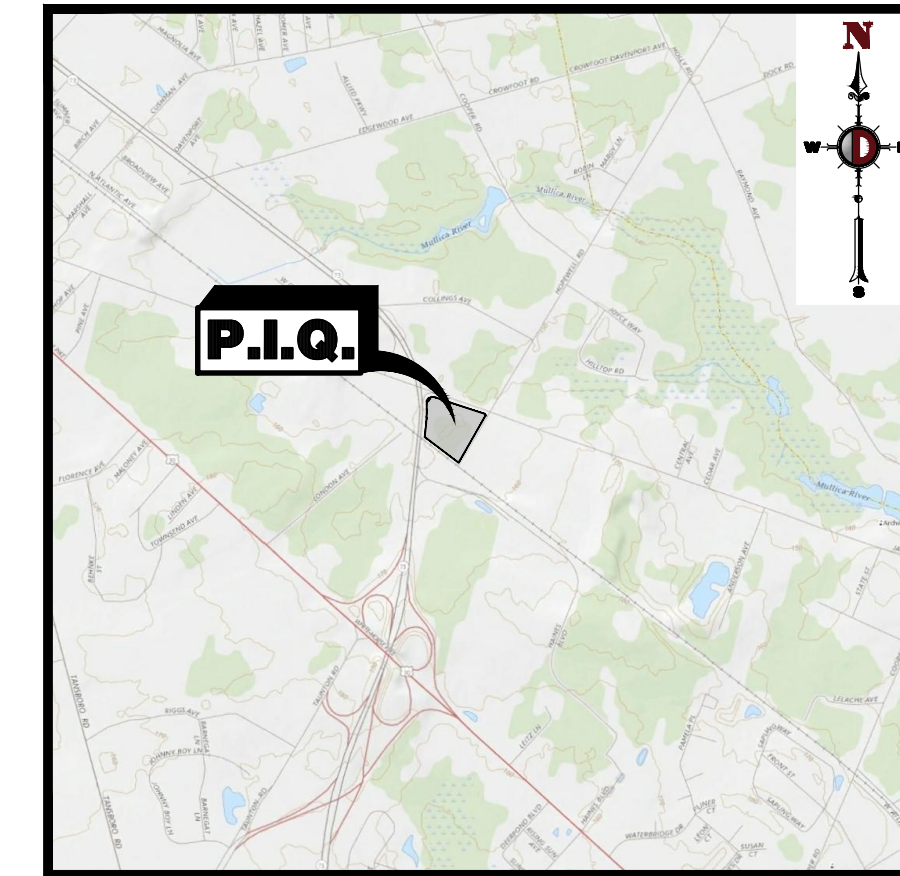


FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT:  
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### AREA MAP

1" = 200'



### KEY MAP

1" = 2000'

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Allen, Texas: 1.972.534.2100 | Austin, Texas: 1.512.446.2444 | Houston, Texas: 1.281.789.6400  
Denver, Colorado: 1.561.923.8070

TITLE:

COVER SHEET

PROJECT: <b>HSC BERLIN, LLC</b> <b>PROPOSED TRACTOR SUPPLY COMPANY</b> BLOCK 1604, LOTS 1, 2, 3, 4 & 5 901 NJSH ROUTE 73 SOUTH TOWNSHIP OF BERLIN, CAMDEN COUNTY, NEW JERSEY	JOB No: 2451-99-012 DATE: 03/20/19 DRAWN BY: LZ DESIGNED BY: KCK CHECKED BY: JMS	SCALE: (H) AS SHOWN SHEET No: 1 OF 17
KYLE C. KAVINSKI PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 52985	JOSHUA M. SEWALD PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 52908	DEC Client Code: 2451 Rev. # 6

PREPARED BY  
**DYNAMIC ENGINEERING CONSULTANTS, P.C.**  
1904 MAIN STREET  
LAKE COMO, NJ 07719  
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Plotted: 07/27/20 - 3:50 PM, By: kneese, Product Ver: 23.1s (LMS Tech)  
File: P:\BECPC PROJECTS\2451 Hk Snedeker\99-012 Berlin\DrawSite Plans\245199012SK6.dwg, --- 01 COVER SHEET







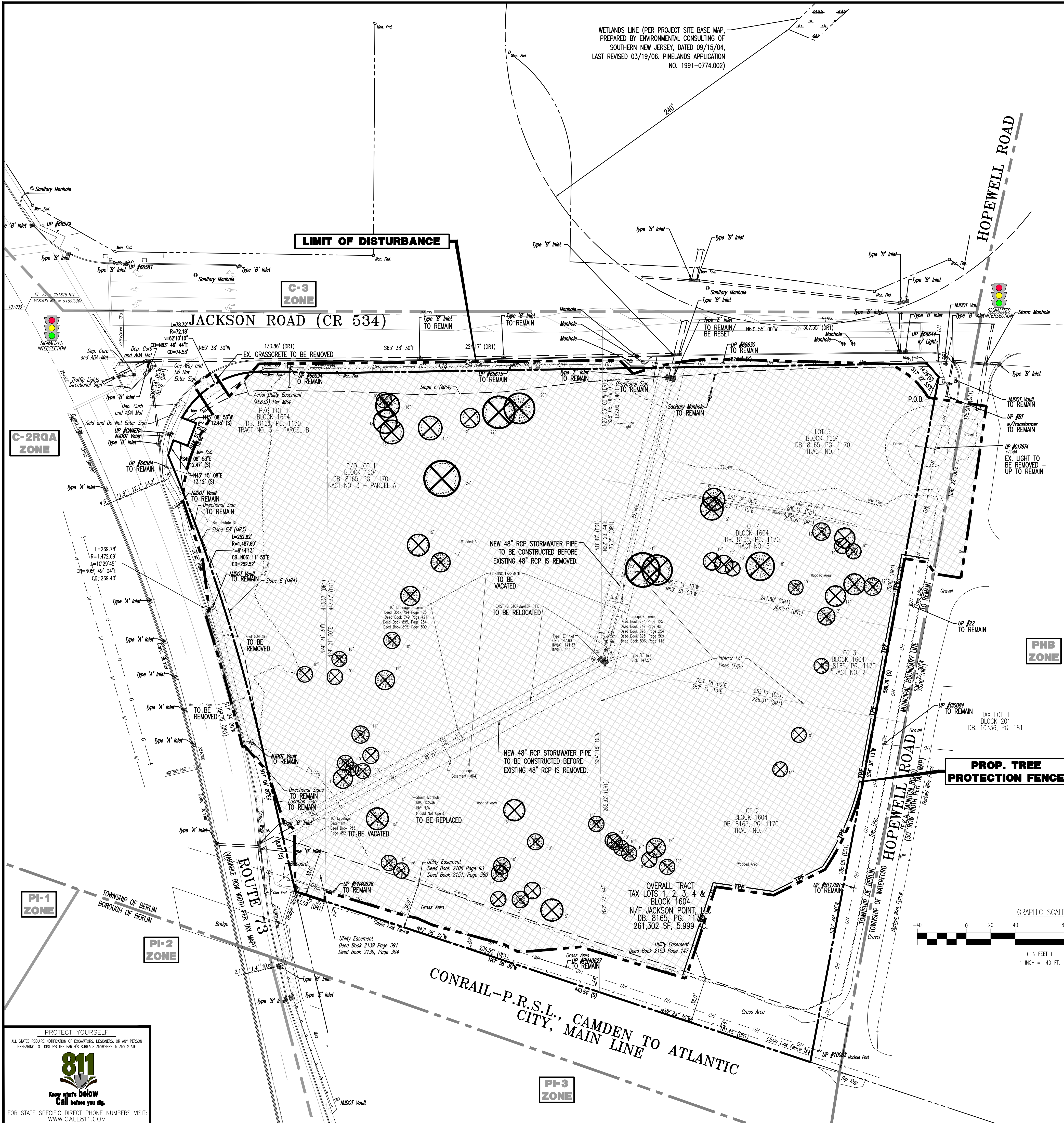
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PROTECT YOURSELF  
ALL STATES REQUIRE NOTIFICATION OF DEMOLITION, RESOURCES, OR ANY PERSON  
PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

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### DEMOLITION NOTES

1. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.
2. PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER, FROM THE TOP OF THE STRUCTURE(S) TO THE GROUND.
3. COMPLETE DEMOLITION WORK ABOVE EACH FLOOR OR TIER BEFORE DISTURBING ANY OF THE SUPPORTING MEMBERS OF THE LOWER LEVELS.
4. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.
5. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO THE GROUND BY MEANS OF HOSTS, DERRICKS OR OTHER SUITABLE METHODS.
6. BREAK UP CONCRETE SLABS-ON-GRADE, UNLESS OTHERWISE DIRECTED BY OWNER.
7. LOCATE/DEMOLITION EQUIPMENT THROUGHOUT THE STRUCTURE AND REMOVE MATERIALS SO AS TO NOT IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING.
8. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING AND SUPPORTS TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED (AND ADJACENT FACILITIES, IF APPLICABLE).
9. DEMOLISH AND REMOVE ALL FOUNDATION WALLS, FOOTINGS AND OTHER MATERIALS WITHIN THE AREA OF THE DESIGNATED FUTURE BUILDING. ALL OTHER FOUNDATION SYSTEMS, INCLUDING BASEMENTS, SHALL BE DEMOLISHED TO A DEPTH OF NOT LESS THAN ONE FOOT BELOW PROPOSED PAVEMENT OR BREAK BASEMENT FLOOR SLABS. SEAL ALL OPEN UTILITY LINES WITH CONCRETE. CONTRACTOR TO REVIEW STRUCTURE PRIOR TO DEMOLITION TO DETERMINE IF BASEMENT, CRAWL SPACE OR ANY SUB-STRUCTURE EXISTS. ANY SUB-STRUCTURE, INCLUDING BASEMENTS SHALL BE REMOVED IN ITS ENTIRETY OR AS DIRECTED BY OWNER.
10. ERECT AND MAINTAIN COVERED PASSAGEWAYS IN ORDER TO PROVIDE SAFE PASSAGE FOR PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER THAT WILL PREVENT DAMAGE AND PERSONAL INJURY TO STRUCTURES, ADJACENT BUILDINGS AND ALL PERSONS.
11. REFRAIN FROM USING ANY EXPLOSIVES WITHOUT PRIOR WRITTEN CONSENT OF OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES.
12. CONDUCT DEMOLITION SERVICES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF OWNER AND ANY APPLICABLE GOVERNMENTAL AUTHORITIES. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY APPLICABLE GOVERNMENTAL REGULATIONS.
13. USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS, AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING PRIOR TO THE START OF WORK.
14. ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.
15. COMPLETELY FILL BELOW GRADE AREAS AND Voids RESULTING FROM THE DEMOLITION OF STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. STONES USED WILL NOT BE LARGER THAN 6 INCHES IN DIMENSION. MATERIAL FROM DEMOLITION MAY NOT BE USED AS FILL. PRIOR TO PLACEMENT OF FILL MATERIALS, UNDERLIE ALL NECESSARY ACTION IN ORDER TO ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH, DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH AND COMPACT EACH LAYER AT PLACEMENT TO 95% OPTIMUM DENSITY. GRADE THE SURFACE TO MEET ADJACENT CONTOURS AND TO PROVIDE SURFACE DRAINAGE.
16. REMOVE FROM THE DESIGNATED SITE, AT THE EARLIEST POSSIBLE TIME, ALL DEBRIS, RUBBISH, SALVAGEABLE ITEMS, HAZARDOUS AND COMBUSTIBLE SERVICES. REMOVED MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON THE SITE. REMOVAL OF HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROCEDURES AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE REGULATORY AGENCIES AND AUTHORITIES.
17. DISCONNECT, SHUT OFF AND SEAL IN CONCRETE ALL UTILITIES SERVING THE STRUCTURE(S) TO BE DEMOLISHED BEFORE THE COMMENCEMENT OF THE DESIGNATED DEMOLITION. MARK FOR POSITION ALL UTILITY DRAINAGE AND SANITARY LINES AND PROTECT ALL ACTIVE LINES. CLEARLY IDENTIFY BEFORE THE COMMENCEMENT OF DEMOLITION. SERVICES THE REQUIRED INTERRUPTION OF ACTIVE SYSTEMS THAT MAY AFFECT OTHER PARTIES, AND NOTIFY ALL APPLICABLE UTILITY COMPANIES TO ENSURE THE CONTINUATION OF SERVICE.
18. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL PROCEDURES ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS NECESSARY.

### NOTES

1. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM OR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION.
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 EXISTING UTILITIES TO BE ABANDONED SHALL BE DISCONNECTED AND CAPPED AT THE MAIN FOR WATER, AT THE CLEAN-OUT FOR SEWER AND THE SHUT-OFF VALVE OR MAIN FOR GAS IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY REQUIREMENTS.
4. ALL EXISTING DEBRIS SHALL BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY COMPANY REQUIREMENTS.

### DEMOLITION PLAN LEGEND

---	PROPOSED LIMIT OF DISTURBANCE LINE
TPF	PROPOSED TREE PROTECTION FENCE LINE
	EXISTING IMPROVEMENTS TO BE REMOVED UNLESS OTHERWISE NOTED
	TREES TO REMAIN
	TREES TO BE REMOVED
	TREES TO BE TRANSPLANTED/RELOCATED

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F: 732.974.3521  
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TITLE: **DEMOLITION PLAN**

PROJECT: **HSC BERLIN, LLC  
PROPOSED TRACTOR SUPPLY COMPANY**  
BLOCK 1604, LOTS 1, 2, 3, 4 & 5  
901 NUSH ROUTE 73 SOUTH  
TOWNSHIP OF BERLIN, CAMDEN COUNTY, NEW JERSEY

DESIGNED BY: **KYLE C. KAVINSKI**  
CHECKED BY: **JOSHUA M. SEWALD**

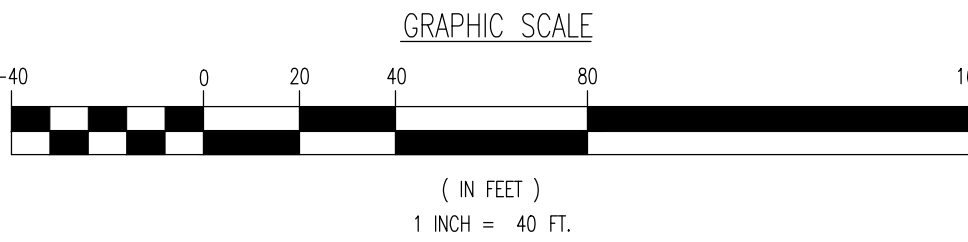
PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE NO. 52985

PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE NO. 52908

JOB No: 2451-99-012  
DATE: 03/20/19  
DRAWN BY: KJH  
SCALE: (H) 1"=40'  
(V)  
SHEET No: **3**  
OF 17

CONSTRUCTION CHECK DATE  
CONSTRUCTION CHECK DATE  
DEC Client Code: 2451  
Rev. # 6

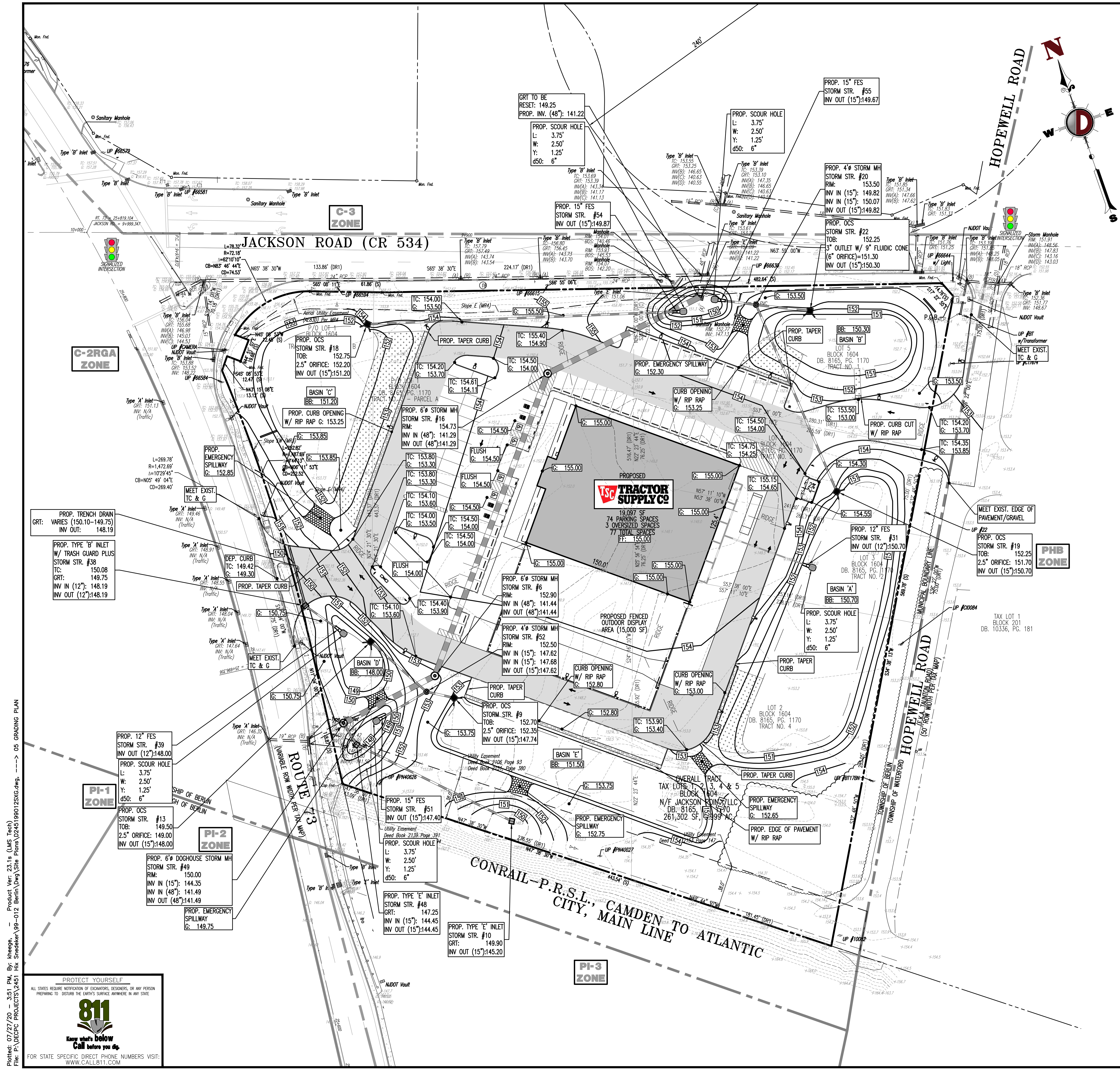
Rev.	Date	Comments
1	06/28/19	REV PER INTELANDS & SCD COMMENTS
2	06/28/19	REV PER INTELANDS & SCD COMMENTS
3	06/28/19	REV PER INTELANDS & SCD COMMENTS
4	06/28/19	REV PER INTELANDS & SCD COMMENTS
5	07/16/19	REV PER ARCHITECT COMMENTS
6	07/27/20	REV PER TOWNSHIP COMMENTS











### GRADING/UTILITY GRAPHIC LEGEND

PROPERTY LINE (PARCEL IN QUESTION)  
OFF-SITE PROPERTY LINES

EXIST. CABLE LINE	EXIST. SPOT ELEVATIONS	PROP. GRADE SPOT ELEV.
EXIST. CABLE LINE	EXIST. GUTTER ELEV.	PROP. TOP OF CURB & FINISHED GRADE ELEV.
EXIST. ELECTRIC LINE	EXIST. TOP OF CURB ELEV.	PROP. FINISHED FLOOR ELEV.
EXIST. ELECTRIC LINE	EXIST. FINISH FLOOR ELEV.	PROP. TOP OF WALL & FINISHED GRADE @ LOW SIDE OF WALL (ACTUAL BOTTOM OF WALL FOOTING TO BE ESTABLISHED BY WALL DESIGNER)
EXIST. FIBER OPTIC LINE	EXIST. GARAGE FLOOR ELEV.	PROP. TOP OF EXTENDED CURB (GH) FINISHED GRADE @ LOW SIDE OF EXTENDED CURB
EXIST. FIBER OPTIC LINE	EXIST. WATER VALVE	PROP. TOP OF EXTENDED CURB (GH) FINISHED GRADE @ HIGH SIDE OF EXTENDED CURB
EXIST. FUEL LINE	EXIST. GAS VALVE	PROP. DIRECTION OF DRAINAGE FLOW ARROW
EXIST. FUEL LINE	EXIST. ELECTRIC METER	PROP. WATER VALVE
EXIST. OVERHEAD WIRES	EXIST. ELECTRIC BOX	PROP. GAS VALVE
EXIST. OVERHEAD WIRES	EXIST. CLEAN OUT	PROP. STORM CLEANOUT
EXIST. TELEPHONE LINE	EXIST. WATER SHUT OFF VALVE	PROP. SANITARY CLEANOUT
EXIST. TELEPHONE LINE	EXIST. TELEPHONE BOX	PROP. AREA LIGHT
EXIST. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)	EXIST. CABLE TV BOX	PROP. OUTLET CONTROL STRUCTURE
EXIST. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)	EXIST. UTILITY POLE	PROP. DRAINAGE MANHOLE
EXIST. WATER LINE	EXIST. GUY WIRE	PROP. SANITARY SEWER MANHOLE
EXIST. WATER LINE	EXIST. LIGHT POLE	PROP. "A" INLET
EXIST. SANITARY SEWER LINE	EXIST. BUILDING LIGHT	PROP. "B" INLET
EXIST. SANITARY SEWER LINE	EXIST. SHOE BOX LIGHT	PROP. "C" INLET
EXIST. SANITARY SEWER LINE	EXIST. CORRA LIGHT POLE	PROP. "D" INLET
EXIST. SANITARY SEWER LINE	EXIST. TRAFFIC SIGNAL POLE	PROP. YARD INLET
EXIST. SANITARY SEWER LINE	EXIST. MINOR CURB & ELEVATION	PROP. FLARED END SECTION
EXIST. SANITARY SEWER LINE	EXIST. MAJOR CURB & ELEVATION	PROP. FLARED END SECTION
EXIST. SANITARY SEWER LINE	EXIST. FINISH GRADE CURB & ELEVATION	
EXIST. SANITARY SEWER LINE	EXIST. MONITORING WELL	
EXIST. SANITARY SEWER LINE	APPROX. TEST PIT LOCATION	

- ### GRADING NOTES
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOIL, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER A.S.T.M. TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 2% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTOR REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITHIN THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.
  - CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MIN. SLOPE AGAINST ALL ISLAND GUTTERS, CURBS AND 1.0% ON ALL CONCRETE SURFACES, AND 1.1-2% MIN. ON ASPHALT. TO PREVENT PONDING, ANY DISCREPANCIES THAT MAY EFFECT THE PUBLIC SAFETY OR PROJECT COST, MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITH DESIGN DISCREPANCIES IS DONE SO AT THE CONTRACTOR'S OWN RISK.
  - PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MIN. OF 0.75% GUTTER GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION.
  - SUBGRADE MATERIAL FOR SIDEWALKS, CURBS OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED TO 95% OPTIMUM DENSITY (AS DETERMINED BY MODIFIED PROCTOR METHOD).
  - REFER TO SITE PLAN FOR ADDITIONAL NOTES.
  - IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERCEDE IN ALL CASES. CONTRACTOR MUST NOTIFY ENGINEER OF RECORD OF ANY CONFLICT IMMEDIATELY.
  - MAXIMUM CROSS SLOPE OF 2% ON ALL SIDEWALKS.
  - CONTRACTOR TO ENSURE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS IN ADA PARKING SPACES AND ADA ACCESS ASILES. CONTRACTOR TO ENSURE A MAXIMUM OF 5% RUNNING SLOPE AND 2% CROSS SLOPE ALONG ALL OTHER PORTIONS OF ACCESSIBLE ROUTE, WITH THE EXCEPTION OF RAMPS AND CURB RAMPS. CONTRACTOR SHALL CLARIFY ANY QUESTIONS CONCERNING CONSTRUCTION IN ADA AREAS WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
  - THE OWNER SHALL RETAIN DYNAMIC EARTH, LLC (908-879-7095) OR ALTERNATE QUALIFIED GEOTECHNICAL ENGINEER TO TEST SOIL PERMEABILITY AND PROVIDE CONSTRUCTION PHASE INSPECTIONS OF THE BASIN BOTTOM SOILS AND ANY FILL MATERIALS WITHIN ANY PROPOSED INFILTRATION OR RETENTION BASIN TO COMPARE RESULTS TO DESIGN CRITERIA.
  - CONTRACTOR IS TO REMOVE EXISTING UNSUITABLE OR OVERLY COMPACT SOIL OR ROCK AS NEEDED TO ACHIEVE REQUIRED PERMEABILITY AS DIRECTED BY THE OWNER'S GEOTECHNICAL ENGINEER, AND NEW FILL, IF NEEDED, SHALL HAVE AN IN PLACE PERMEABILITY GREATER THAN OR EQUAL TO THE DESIGN CRITERIA.
  - CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO ONSET OF CONSTRUCTION TO SUBMIT AND CONFIRM THE CONTRACTOR'S PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, AND FINAL BASIN PERMEABILITY TESTING.
  - THE CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL UNLESS DEFINED OTHERWISE ELSEWHERE IN THE CONTRACT DOCUMENTS.



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1984 Main Street  
Lake Como, NJ 07719  
T: 732.974.0188  
F: 732.974.3521  
www.dynamiceng.com

TITLE: **GRADING PLAN**

PROJECT: **HSC BERLIN, LLC  
PROPOSED TRACTOR SUPPLY COMPANY  
BLOCK 1604, LOTS 1, 2, 3, 4 & 5  
901 NUSH ROUTE 73 SOUTH  
TOWNSHIP OF BERLIN, CAMDEN COUNTY, NEW JERSEY**

DATE: 03/20/19  
SCALE: (H) 1"=40'  
(V) 1"=40'

PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE NO. 52985

PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE NO. 52908

CONSTRUCTION CHECK DATE

CONSTRUCTION CHECK DATE

DEC Client Code: 2451

Rev. # 6

Rev.	Date	Comments
6	07/27/20	REV. PER TOWNSHIP COMMENTS
5	07/16/19	REV. PER ARCHITECT COMMENTS
4	10/14/18	REV. PER INPLEADS & NJDOT COMMENTS
3	09/17/18	REV. PER INPLEADS COMMENTS
2	06/07/18	REV. PER SCD COMMENTS
1	06/28/18	REV. PER INPLEADS & SCD COMMENTS

Kyle C. Kavinski

Joshua M. Sewald

Plotted: 07/27/20 - 3:51 PM, By: kneesee, Product Ver: 23.1a (LMS Tech)  
File: P:\VEPC PROJECTS\2451\_Hk\_Sneadex\99-012\_Berlin\Draw\Site Plans\2451\_05 GRADING PLAN

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## PLANTING NOTES

- | TYPE   | DATES         |
|--------|---------------|
| PLANTS | 3/15 TO 12/15 |
| LAWN   | 3/15 TO 6/15  |
|        | 9/15 TO 12/1  |

PLATANUS ACERIFOLIA

ANY PLANTINGS INSTALLED IN CONFLICT WITH THIS REQUIREMENT MUST RECEIVE THE WRITTEN APPROVAL BY THE MUNICIPAL ENGINEER OR LANDSCAPE ARCHITECT PRIOR TO PLANTING. FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL REQUIRE THE REMOVAL OF THE PLANTING IN QUESTION. THIS REQUIREMENT DOES NOT APPLY TO SEEDING OR SODDING OR PLANTINGS SPECIFICALLY FOR SOIL STABILIZATION PURPOSES. THE PLANTING ASSOCIATED WITH ANY LOT GIVEN A CERTIFICATE OF OCCUPANCY DURING THESE PERIODS SHALL BE PROVIDED DURING THE PREVIOUS OR NEXT APPROPRIATE SEASON.

19. ALL DISTURBED AREAS TO BE TREATED WITH TOPSOIL, SEED SOO STABILIZATION METHOD.

1. SCOPE OF WORK
- A. THIS WORK SHALL CONSIST OF PERFORMING, CLEARING AND SOIL PREPARATION, FINISH GRADING, PLANTING AND DRAINAGE, INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT.
- B. GENERAL - ALL MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION (DOT), MANUAL OF ROADWAY CONSTRUCTION (LATEST EDITION) APPROVED BY THE STATE ENGINEER.
- C. TOPSOIL - ALL PLANTS SHALL BE HEALTHY OR NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS.
- D. PLANTS - (1) LOAMY SOIL, HAVING AN ORGANIC CONTENT NOT LESS THAN 3%, pH RANGE BETWEEN 4.5 - 7, BE FREE OF DEBRIS, ROCKS LARGER THAN TWO (2) INCHES, (2) WOOD, ROCKS, VEGETABLES AND CLAY CLUMPS.
- D. MULCH - (4) FOUR INCHES DOUBLED SHREDDED HARDWOOD BARK MULCH.
- F. FERTILIZER AND SOIL CONDITIONER - PLANTED AREAS
- G. ORGANIC FERTILIZER - SHALL BE PROCESSED SHEERD SUEDE WITH MINIMAL CONTENT OF 1% NITROGEN AND 2% PHOSPHORIC ACID, EQUAL TO NITROPHUMUS<sup>®</sup>.
- H. ORGANIC FERTILIZER AND SOIL CONDITIONER - SHALL BE "GRO-POWER" AND ORGANIC BASE MATERIALS COMPRISED OF DECOMPOSED ANIMAL AND VEGETABLES.
- I. FERTILIZER COMPATIBILITY - FERTILIZER SHALL NOT CONTAIN ANY POULTRY OR HUMAN WASTE, GUARANTEED ANALYSIS: (5-3-1) NITROGEN 5% PHOSPHATE 3% POTASH 1% 50% HUMUS AND 15% HUMIC ACIDS.

1. A MINIMUM 6" THICKNESS FOR TOPSOIL MUST BE CONSISTENT WITH THE REQUIRED TOWNSHIP DESIGN STANDARDS.
2. A GUARANTEE PERIOD OF TWO YEARS MUST BE CONSISTENT WITH THE TERMS OF THE MAINTENANCE GUARANTEE.

CONTRACTOR TO PROVIDE AN IRRIGATION DESIGN FOR BOTH LAWN & BED AREAS. DESIGN IS TO BE SUBMITTED TO PROJECT LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR TO VERIFY STATIC PRESSURE PRIOR TO DESIGN. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY PRESSURE-REDUCING DEVICES REQUIRED TO MEET MAXIMUM PRESSURE REQUIREMENT. SYSTEM DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION, METERS AND CONTROLLERS. ALL SLEEVES IN PAVEMENT AREAS MUST BE SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFLOW PREVENTION DEVICE INSTALLATION AND PERMITTING.

THE BOTTOM OF THE BIORETENTION BASIN SHALL BE SEEDED WITH "RETENTION BASIN WILDLIFE MIX AS MANUFACTURED BY ERNST SEEDS, 800-873-3321, OR APPROVED EQUAL.

SEED SHALL BE APPLIED AT A RATE OF  $\frac{1}{2}$  POUND PER 1,000 SF




**PROP. TREE  
PROTECTION FENCE**

GRAPHIC SCALE

( IN FEET )  
1 INCH = 40 FT.


**SEE SHEET 16 OF 17 FOR LANDSCAPING DETAILS**

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By  Date  Rev.			<h1 style="margin: 0;">DYNAMIC ENGINEERING</h1> <p style="font-size: small; margin: 0;">LAND DEVELOPMENT CONSULTING • PERMITTING • GEOTECHNICAL • ENVIRONMENTAL • SURVEY • PLANNING &amp; ZONING</p>								
			<p style="font-size: x-small; margin: 0;">1904 Main Street Lake County, NJ 07719 T: 732.974.0188 F: 732.974.3521 www.dynamiceng.com</p>								
			<p style="font-size: x-small; margin: 0;">Additional offices conveniently located at: Chester, New Jersey : T: 908.879.9229    Torrey Pines, New Jersey : T: 927.974.0398    Newtonville, Pennsylvania : T: 267.685.0276 Allen, Texas : T: 972.334.2100    Austin, Texas : T: 512.646.5444    Houston, Texas : T: 281.789.6400 Delray Beach, Florida : T: 561.502.8070</p>								
TITLE:											
<h2 style="margin: 0;">LANDSCAPING PLAN</h2>											
PROJECT: <b>HSC BERLIN, LLC</b> <b>PROPOSED TRACTOR SUPPLY COMPANY</b> BLOCK 1604, LOTS 1, 2, 3, 4 & 5 901 NUSH ROUTE 73 SOUTH TOWNSHIP OF BERLIN, CAMDEN COUNTY, NEW JERSEY											
<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">KYLE C. KAVINSKI</div> <div style="font-size: 1.5em; font-weight: bold;">JOSHUA M. SEWALL</div> <div style="font-style: italic; opacity: 0.5; font-size: 1.2em;">[Signature]</div>				JOB No.: 2451-99-012      DATE: 03/20/19				<div style="font-size: 4em; font-weight: bold; margin-bottom: 10px;">7</div> <div style="font-size: 1.2em; font-weight: bold;">OF 17</div>			
				DRAWN BY: KJH      SCALE(H) = "1"=40' (V)							
				DESIGNED BY: KCK      SHEET No:							
				CHECKED BY: JMS							
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				<div style="border: 1px solid black; height: 40px; width: 100%;"></div>							
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PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 52985				PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 52908				DEC Client Code: 2451      Rev. # 6			

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ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

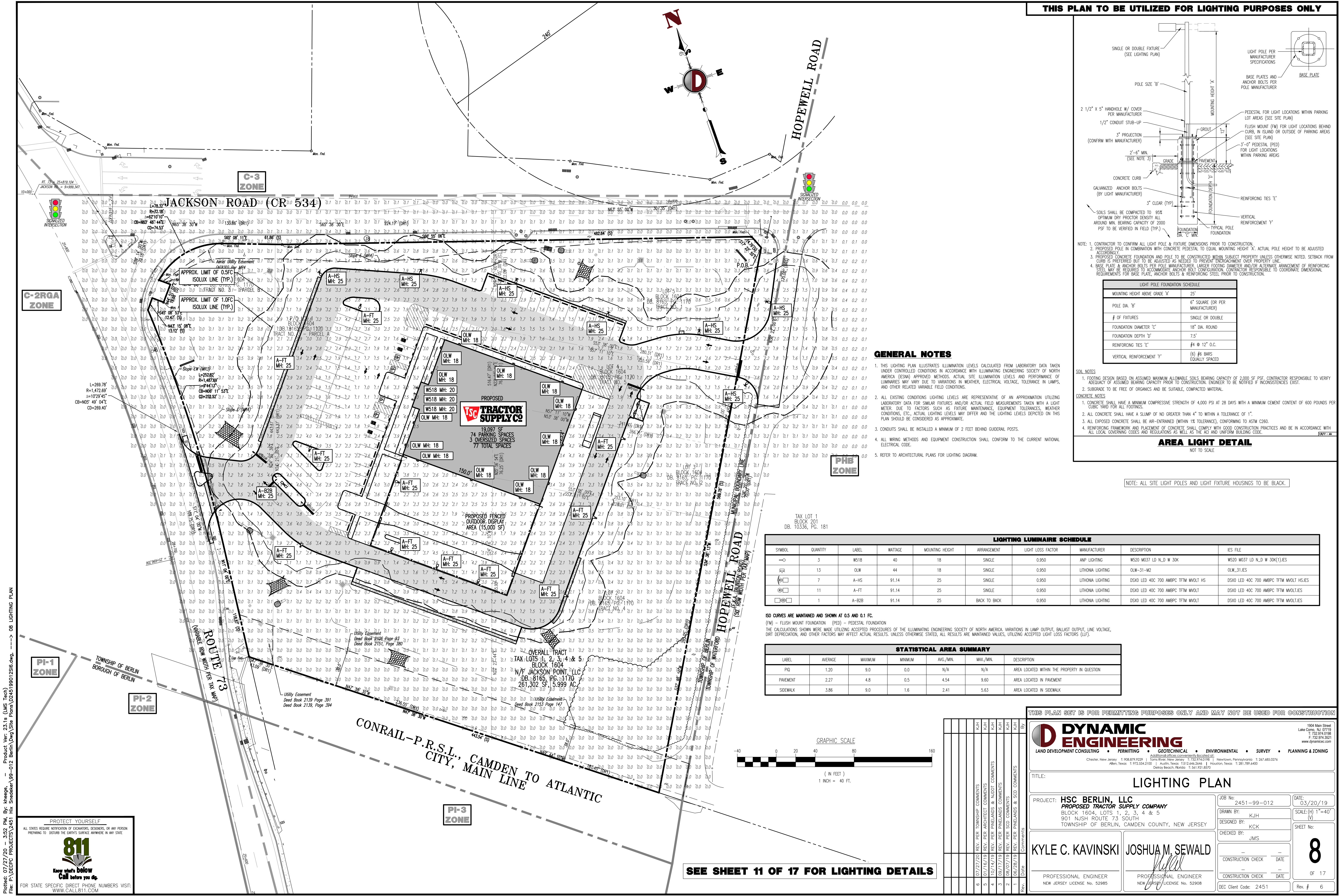
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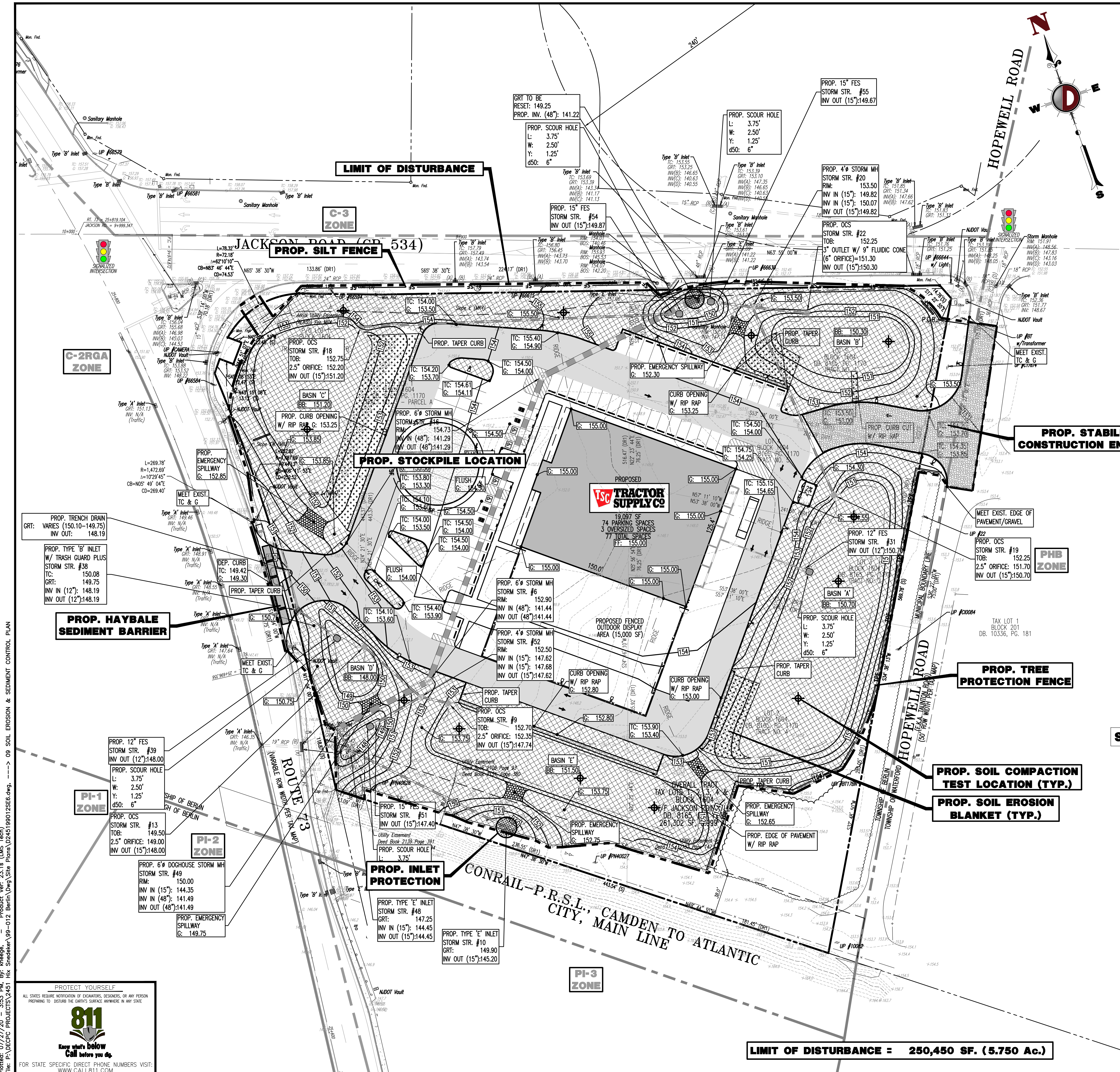
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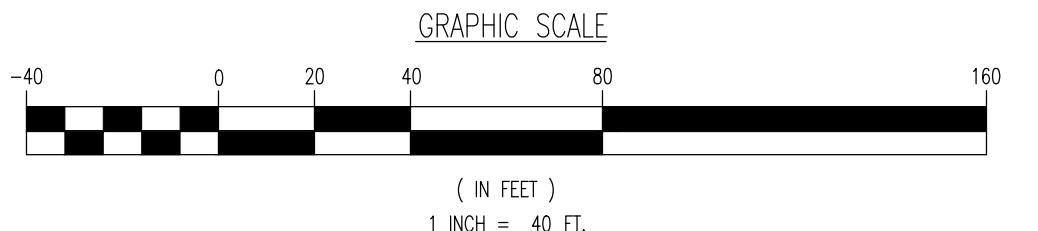




EROSION CONTROL LEGEND

- PROPOSED LIMIT OF DISTURBANCE LINE
- PROPOSED SILT FENCE LINE
- PROPOSED TREE PROTECTION FENCE LINE
- PROPOSED INLET FILTER
- PROPOSED HAYBALE SEDIMENT BARRIER
- PROPOSED PAVEMENT
- PROPOSED HEAVY DUTY PAVEMENT
- PROPOSED CONCRETE
- PROPOSED SOIL COMPACTION TESTING AREAS
- RECOMMENDED SOIL COMPACTION TEST LOCATION (APPROXIMATELY 1 PER 0.5 ACRE)

SEE SHEET 10 OF 17 FOR SOIL EROSION CONTROL NOTES & DETAILS



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TITLE: **SOIL EROSION & SEDIMENT CONTROL PLAN**

PROJECT: **HSC BERLIN, LLC  
PROPOSED TRACTOR SUPPLY COMPANY**  
BLOCK 1604, LOTS 1, 2, 3, 4 & 5  
901 NUSH ROUTE 73 SOUTH  
TOWNSHIP OF BERLIN, CAMDEN COUNTY, NEW JERSEY

DESIGNED BY: **KYLE C. KAVINSKI**  
CHECKED BY: **JOSHUA M. SEWALD**

PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE NO. 52985

JOB No: 2451-99-012  
DATE: 03/20/19  
DRAWN BY: KJH  
DESIGNED BY: KCK  
CHECKED BY: JMS  
CONSTRUCTION CHECK: DATE  
CONSTRUCTION CHECK: DATE  
DEC Client Code: 2451  
Rev. # 6

9  
OF 17

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File: P:\VEPCP PROJECTS\2451\_Hk\_Snedecker\99-012\_Berlin\Draw\Site Plans\2451-99-012 SOIL EROSION & SEDIMENT CONTROL PLAN

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## OLW LED Wall Light

### PHOTOMETRICS

Full photometric data report available within 1 week from request. Contact factory.

Total is accordance with IESNA LM-79 and LM-80 protocols.

LED lighting facts		Lumen output
Light Output (Lumens)		2716
Watts		32.8
Lumens per Watt (Efficiency)		82
Color Accuracy (CRI, Ra, R9)		68
Light Color		6529 (Daylight)
Macadam 2SD		
Warm white	Bright white	Daylight
2700K	3000K	4000K

As shown on average in IESNA LM-79 and LM-80, downward directed in the horizontal plane, the photometric data shown are based on 270° beam angle (270° and 300°).

Visit [www.lithonia-lighting.com](http://www.lithonia-lighting.com) for the Color Performance Guide.

Lighting Factsheet: Color Accuracy (CRI, Ra, R9)  
 Macadam 2SD (2° beam angle, 270°)  
 Day Lumens, Day Wattage

LED lighting facts		Lumen output
Light Output (Lumens)		3967
Watts		45.1
Lumens per Watt (Efficiency)		87
Color Accuracy (CRI, Ra, R9)		68
Light Color		4968 (Daylight)
Macadam 2SD		
Warm white	Bright white	Daylight
2700K	3000K	4000K

As shown on average in IESNA LM-79 and LM-80, downward directed in the horizontal plane, the photometric data shown are based on 270° beam angle (270° and 300°).

Visit [www.lithonia-lighting.com](http://www.lithonia-lighting.com) for the Color Performance Guide.

Lighting Factsheet: Color Accuracy (CRI, Ra, R9)  
 Macadam 2SD (2° beam angle, 270°)  
 Day Lumens, Day Wattage

**LITHONIA LIGHTING®**  
 A part of Acuity Brands Company

COMMERCIAL OUTDOORS:

One Lithonia Way, Gwynn, GA 30012

Phone: 800-529-8061

Fax: 770-895-3033

[www.lithonia.com](http://www.lithonia.com)

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**ANP Lighting**  
 innovative light solutions

Specifications W518

Project: **Tractor Supply Company**

STANDARD			FINISH			PREMIUM		
Standard	Marine	Colors	Standard	Marine	Colors	Standard	Marine	Colors
44	107	White	48		Polished Aluminum			
77	127	Textured White	55		Brushed Aluminum			
13	132	Puffy	81	129	Extreme Chrome			
56	109	Silver	80	117	Textured Desert Stone			
78	124	Textured Silver	87	119	Butterscotch			
49		Painted Galvanized	66	115	Caramel			
70	118	Painted Chrome	64	116	Candy Apple Red			
131		Cerise	65	112	Cobalt Blue			
46	123	Sunny Yellow	82	128	Graystone			
43	114	Bright Red	69	113	Gummetall Gray			
10	130	Aspen Green	68	126	Black Silver			
47	120	Aqua Green	Consult factory for additional paint choices and availability of metal finishes.					
42	102	Fossil Green						
52	104	Platina Verde						
61	106	Black Verde						
45	112	Bright Blue						
50	111	Navy						
53	100	Copper Clay						
71	105	Painted Copper						
51	103	Architectural Bronze						
76	112	Textured Architectural Bronze						
41	101	Black						
72	108	Textured Black						
73	105	Matte Black						

#### The Benefits of ANP Lighting

All of our products are painted at a TIGER DryLac® approved facility, and are finished in our polyester powder coat for exceptional durability and color retention. Products undergo an intensive five-step process in which they are cleaned, treated with iron phosphate, and sealed to pre-treat the metal surface for maximum paint adhesion. Whether applied as a textured coat or a smooth gloss, our high quality finish is electro-statically applied and baked at 430°F for maximum hardness and wear. The end result is a tough, attractive, durable, scratch resistant, and cost-effective product.

#### Optional Marine Grade Finish

For lighting fixtures exposed to extreme conditions, such as those found in coastal regions or industrial environments, we offer a marine grade finish that provides superior salt, humidity, and UV protection. This specialized powder coating, available for an additional charge, withstands up to 3000 hours of corrosive salt spray, comes with a 5-year warranty and is available in either a textured or gloss surface. Consult with our factory for additional paint choices.

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 ANP reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.

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 innovative light solutions

Specifications W511S

Project: Tractor Supply Company

**MODULE SPECIFICATION:**

- Efficiency ranges from 97-108 lumens per watt
- Dimmable 5% - 100%
- Life: L70 50,000 hours
- Color range: 2700K, 3000K, 3500K and 4000K
- CRI: >90

**MODULE DRIVER SPECIFICATION:**

- Operates at 40Vdc to 48Vdc
- Built in surge protection
- Constant current output 50/60Hz
- Driver Efficiency > 81% power factor above 90%
- 120 - 277 volts

**MODULE LISTINGS**

- Fully compliant with the RoHS Directive
- Certifications: CE/UL/ETL

**WARRANTY**

See terms and conditions for complete future warranty.

**LED warranty information**

- "5 year limited warranty"
- Life: L70 -50,000 hours
- Ease of maintenance and future upgrades with our independent heat sink technology

"5 year limited Warranty: LED modules will be warranted for a period of 5 years from date of installation. A typical year is defined as 4320 hours of operation. Failure defined as more than 8% of the total module not operating. The driver will also be covered under the same 5 year warranty."

**LED MODULE**

LED Wattage	CCT	Lumens	System Wattage	Efficiency
9W	2700K	850	11w	97
9W	3000K	850	11w	97
9W	3500K	850	11w	97
9W	4000K	850	11w	97
13w	2700K	1250	16w	97
13w	3000K	1250	16w	97
13w	3500K	1250	16w	97
13w	4000K	1250	16w	97
19w	2700K	2000	25w	97
21w	3000K	2000	25w	97
21w	3500K	2000	25w	97
21w	4000K	2000	25w	97

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**ARM MOUNTS**

RLM Mounts manufactured using Schedule 40  
1/2" or 3/4" IPS.








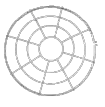


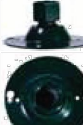



**WALL MOUNTS**

**POST MOUNTS**

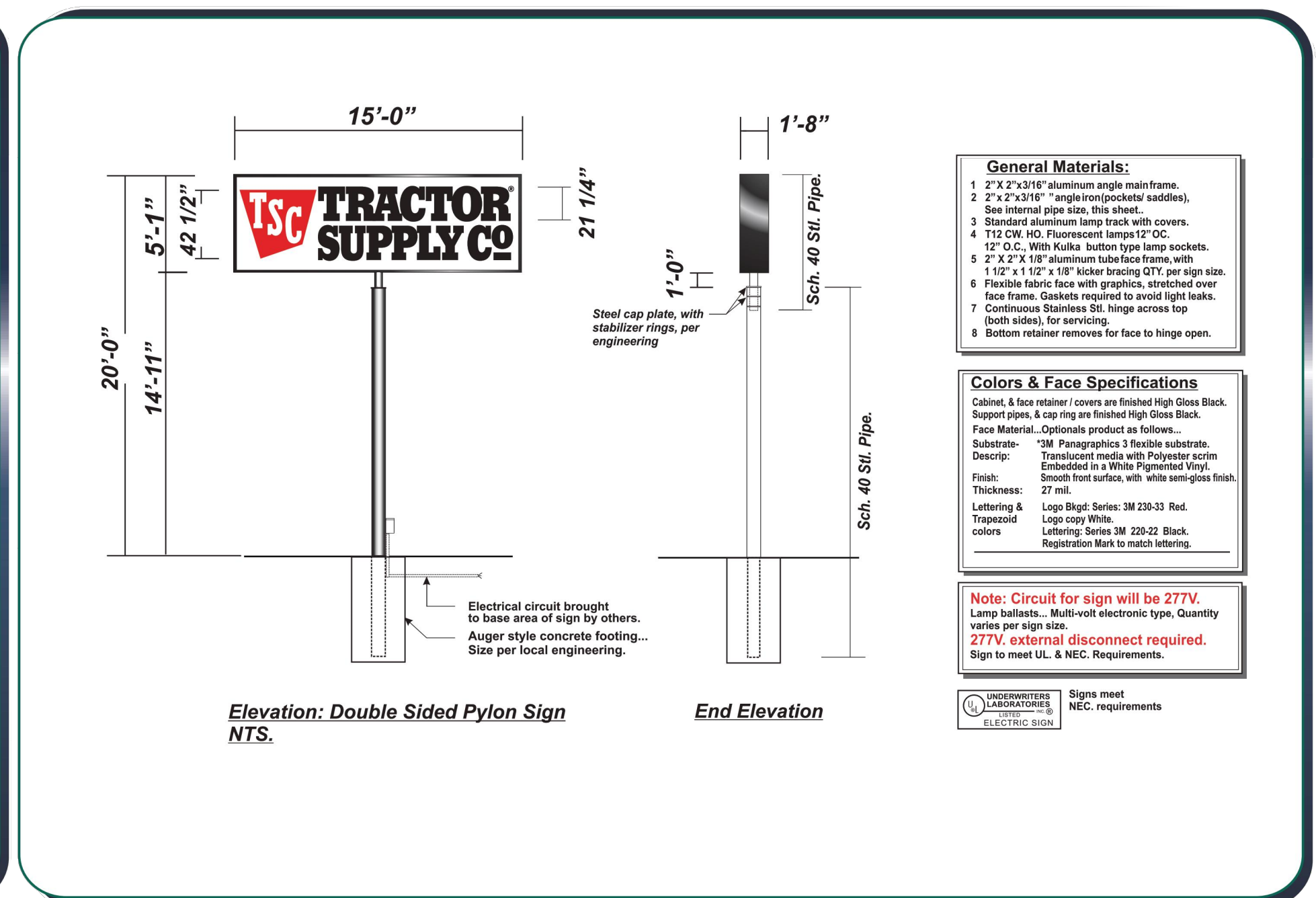
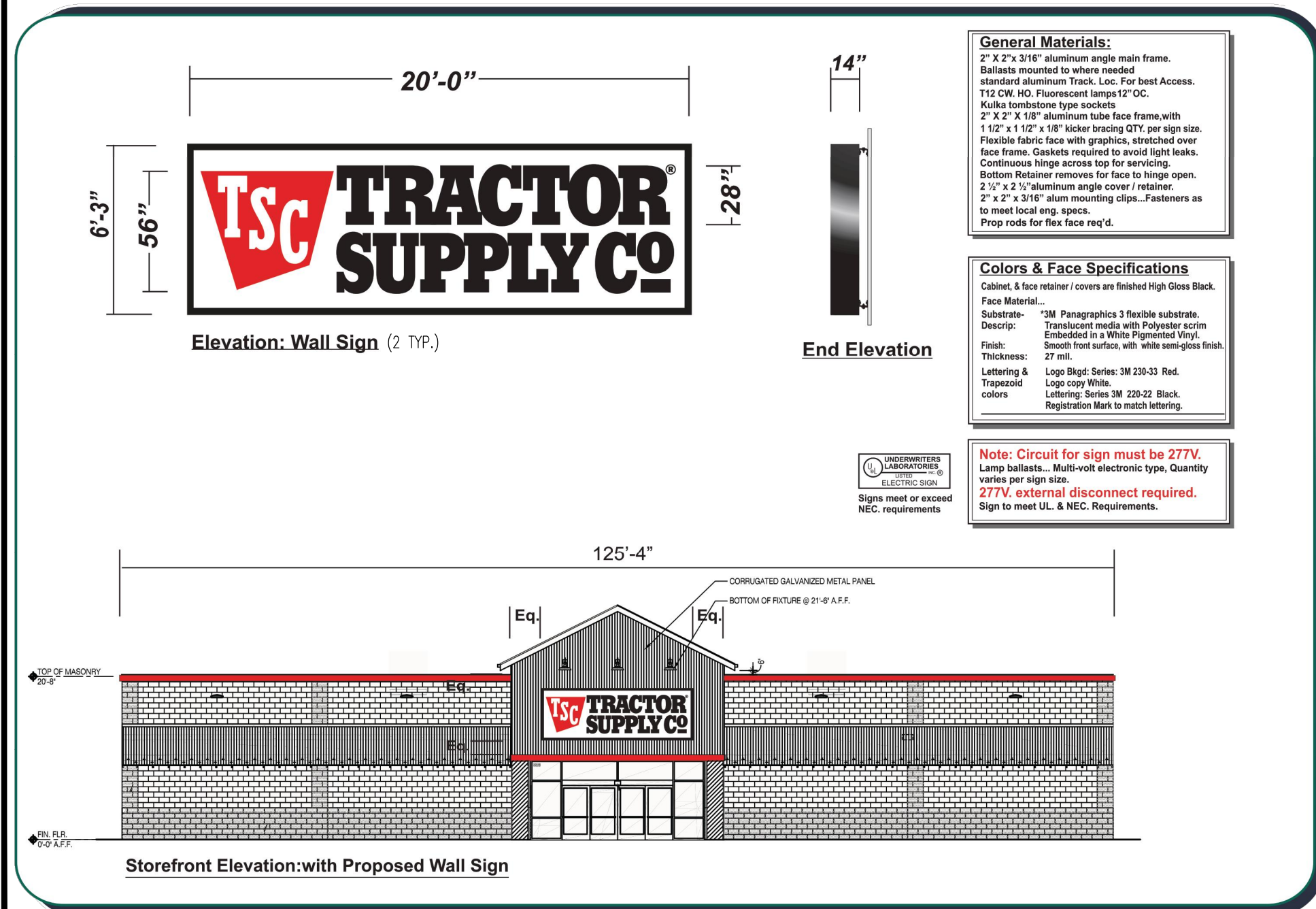
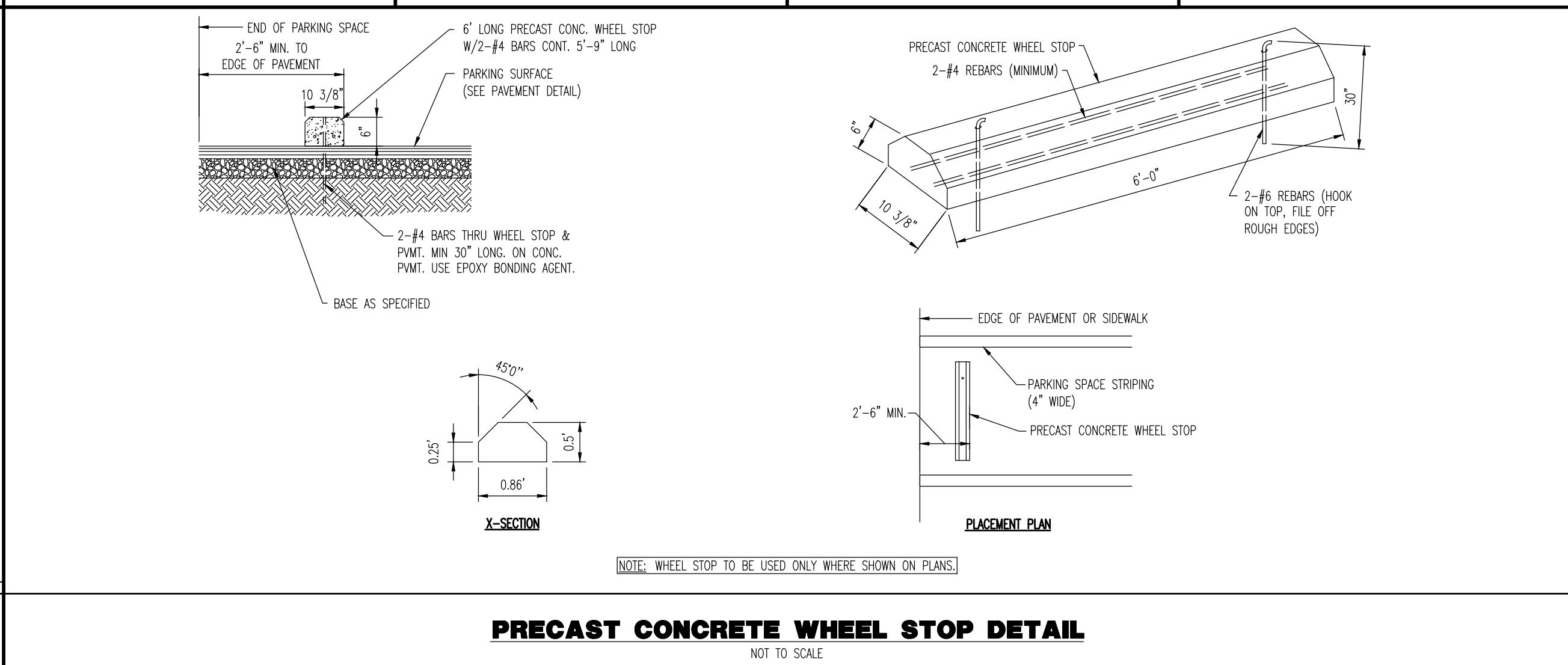
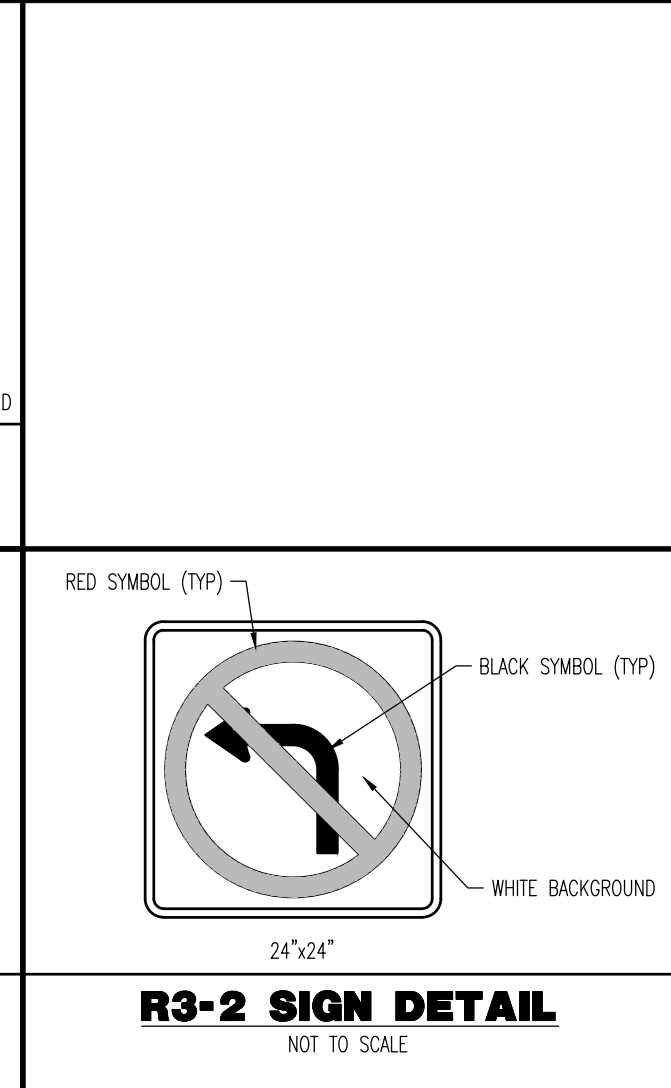
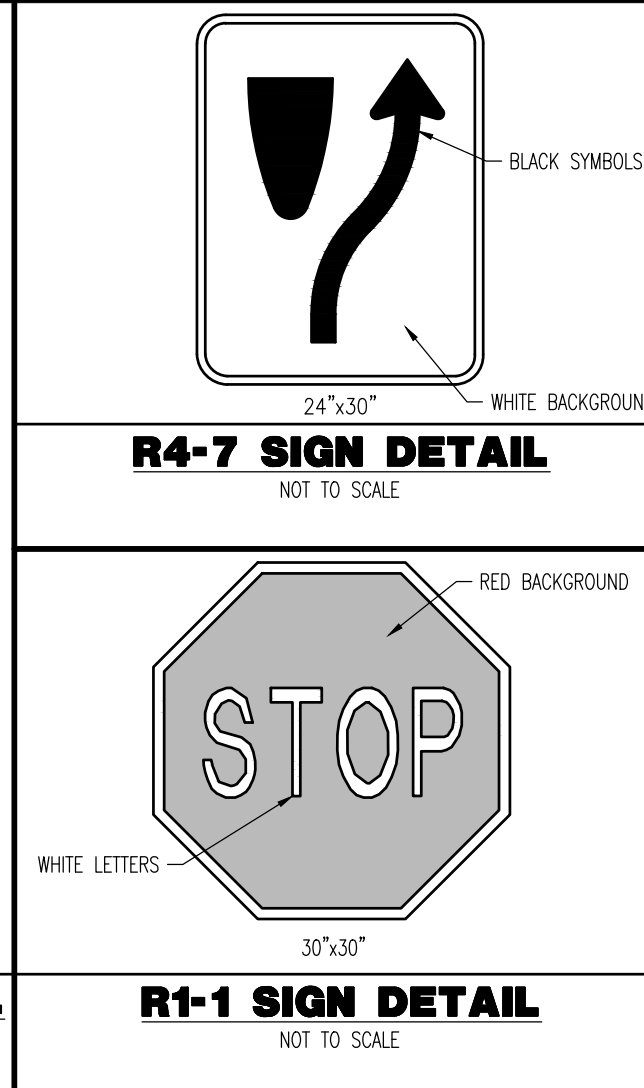
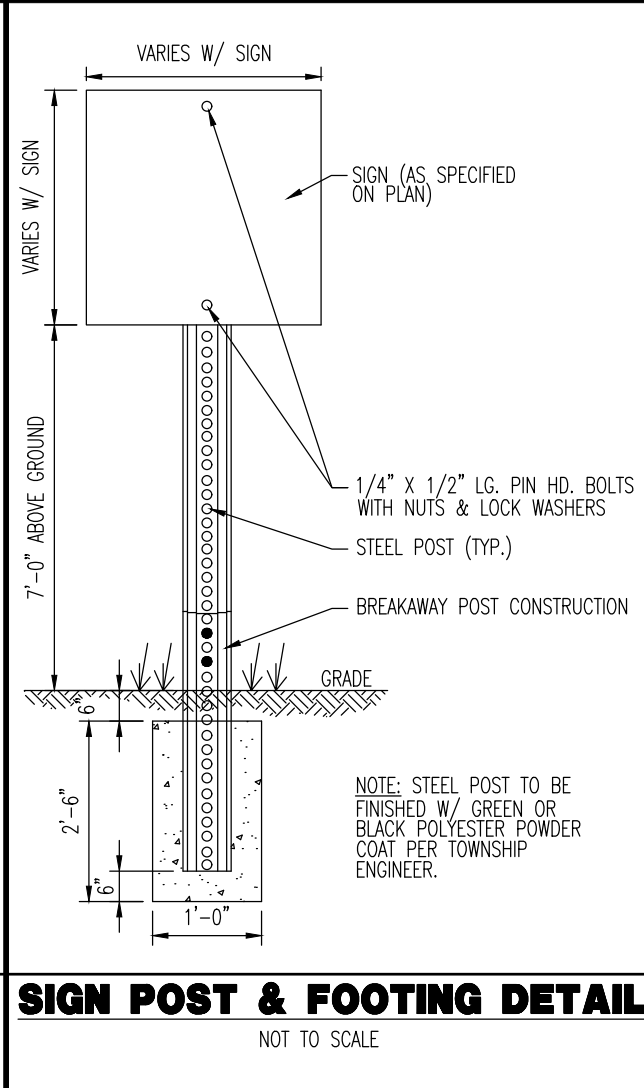
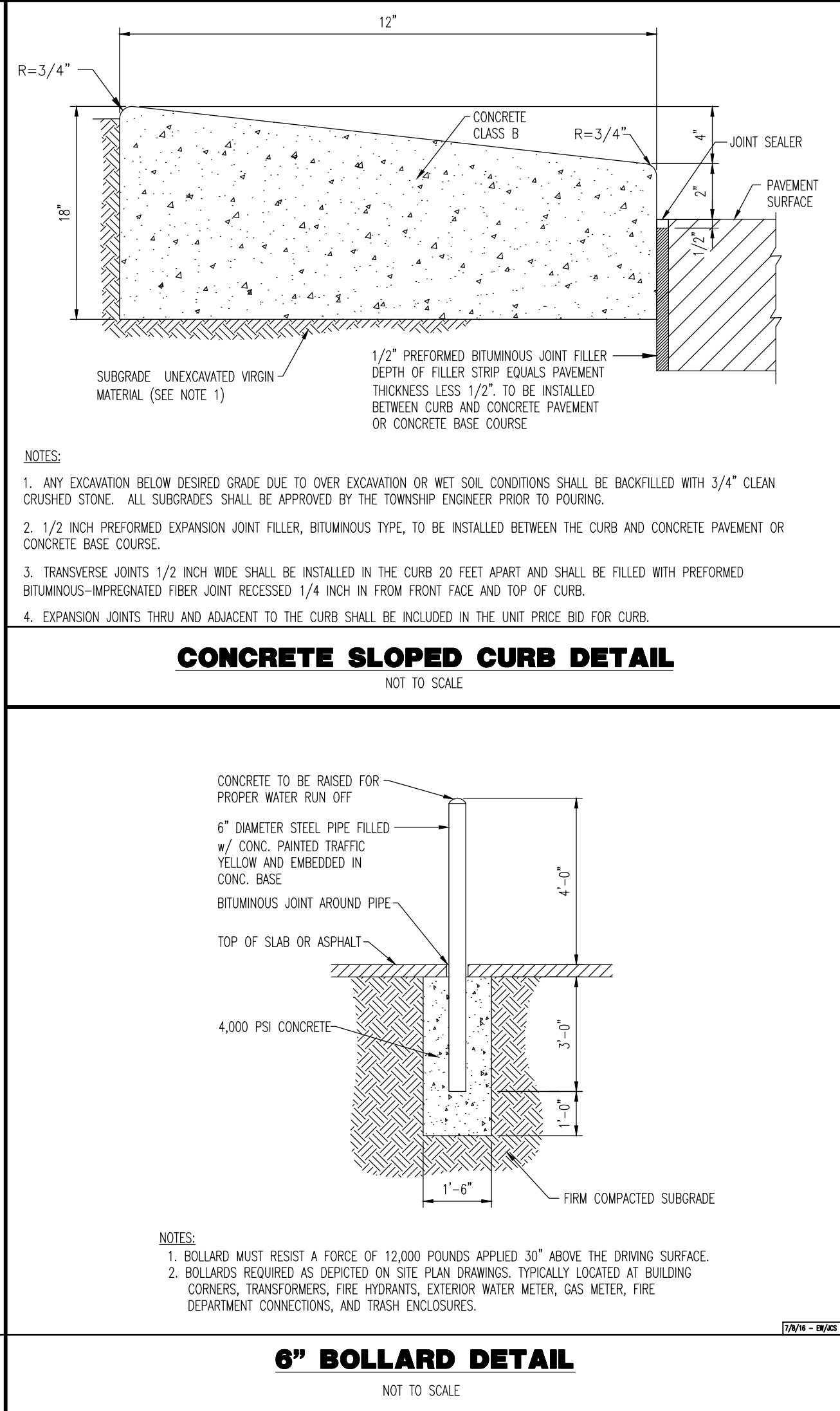
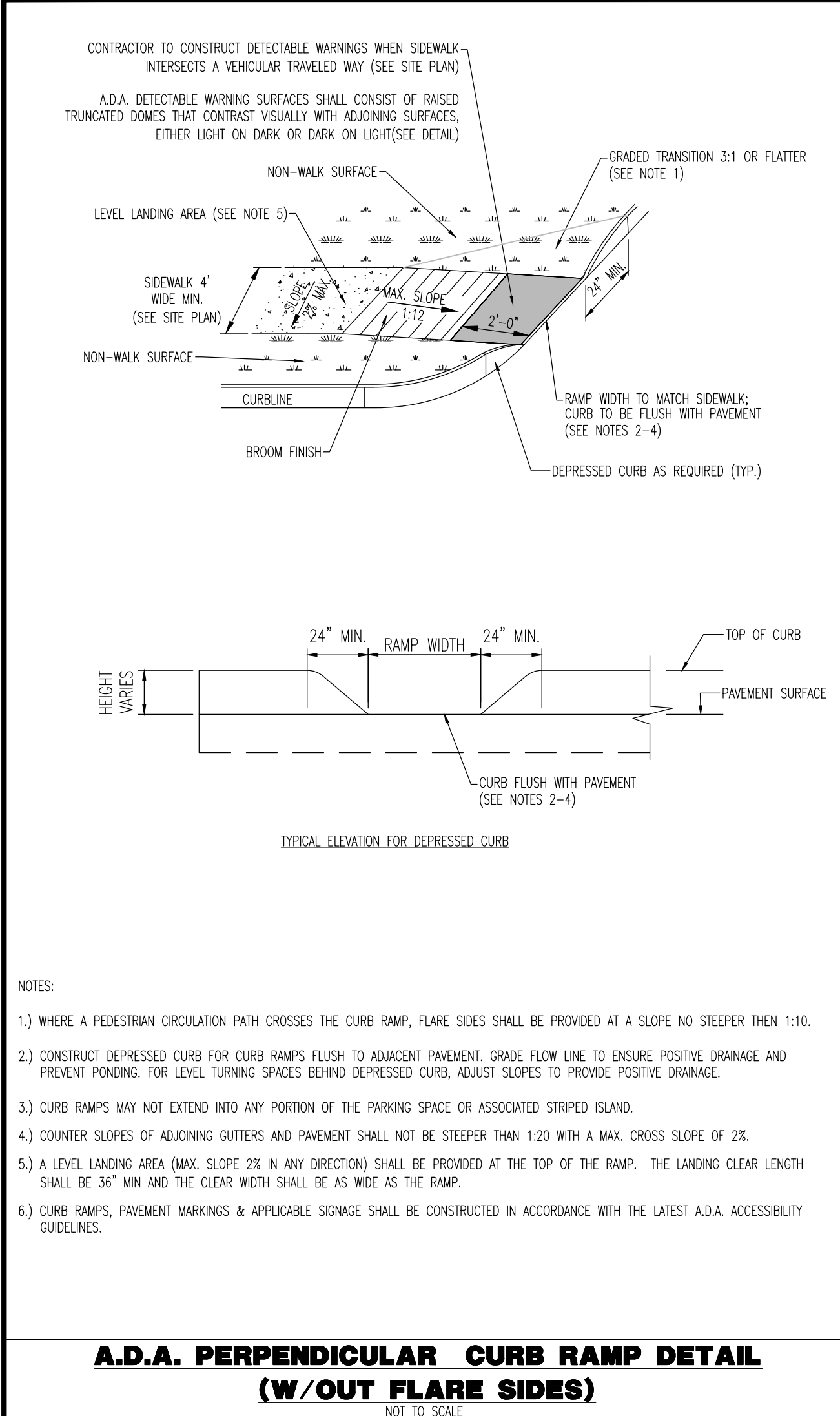
**PENDANT MOUNTS**

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<div> <div>Project: <b>Tractor Supply Company</b></div> <div></div> </div>		<div>    </div>			
<div> <div>DRIVER HOUSING</div> <div> <div>  </div> <div>  </div> </div> </div>					
<div> <div>RTCM (VPL Bulb Canopy)</div> </div>	<div> <div>RTCMC (VPL Bulb Canopy/No Sport Cover)</div> </div>				
<div> <div>ACCESSORIES</div> <div> <div>  </div> <div>  </div> <div>  </div> <div>  </div> <div>  </div> <div>  </div> </div> </div>					
<div> <div>CB (Cast Back Plate)</div> </div>	<div> <div>CBC (Cast Back Plate Spun Alum Cover)</div> </div>	<div> <div>GR18 (1/8" Wire Grid)</div> </div>	<div> <div>PC Bulb Photo Cell (Remote Only)</div> </div>	<div> <div>SC (Bracket for Arm)</div> </div>	<div> <div>SLC (Sloped Ceiling Mount)</div> </div>
<div>  </div>	<div>  </div>	<div>  </div>			
<div> <div>SQ (Square Back Plate)</div> </div>	<div> <div>ETC (Flat Ceiling Stem Canopy)</div> </div>	<div> <div>SWL (Swivel)</div> </div>			

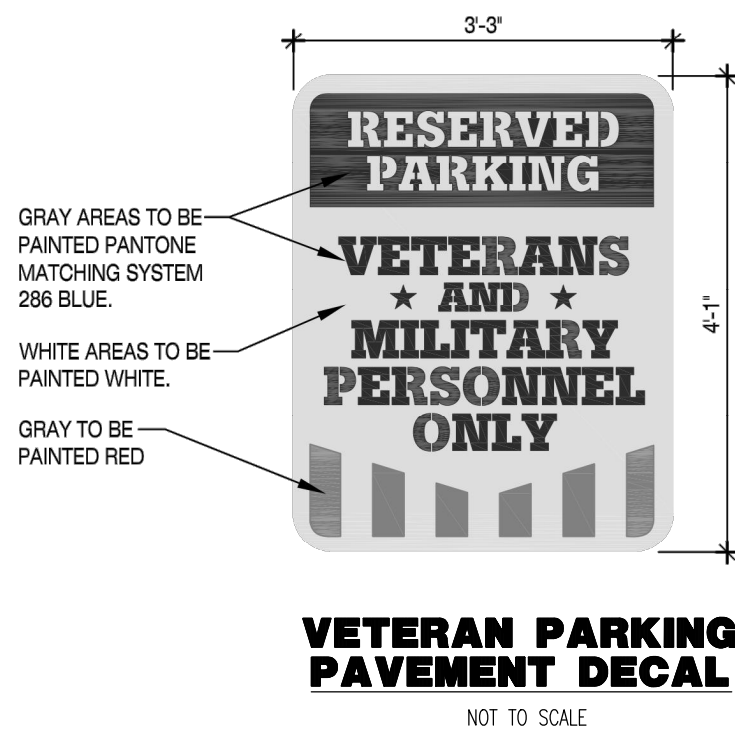




EPOXY ANCHORS INTO PAVEMENT PER MANUFACTURER'S SPECIFICATIONS

## VERTICAL SIGNAGE

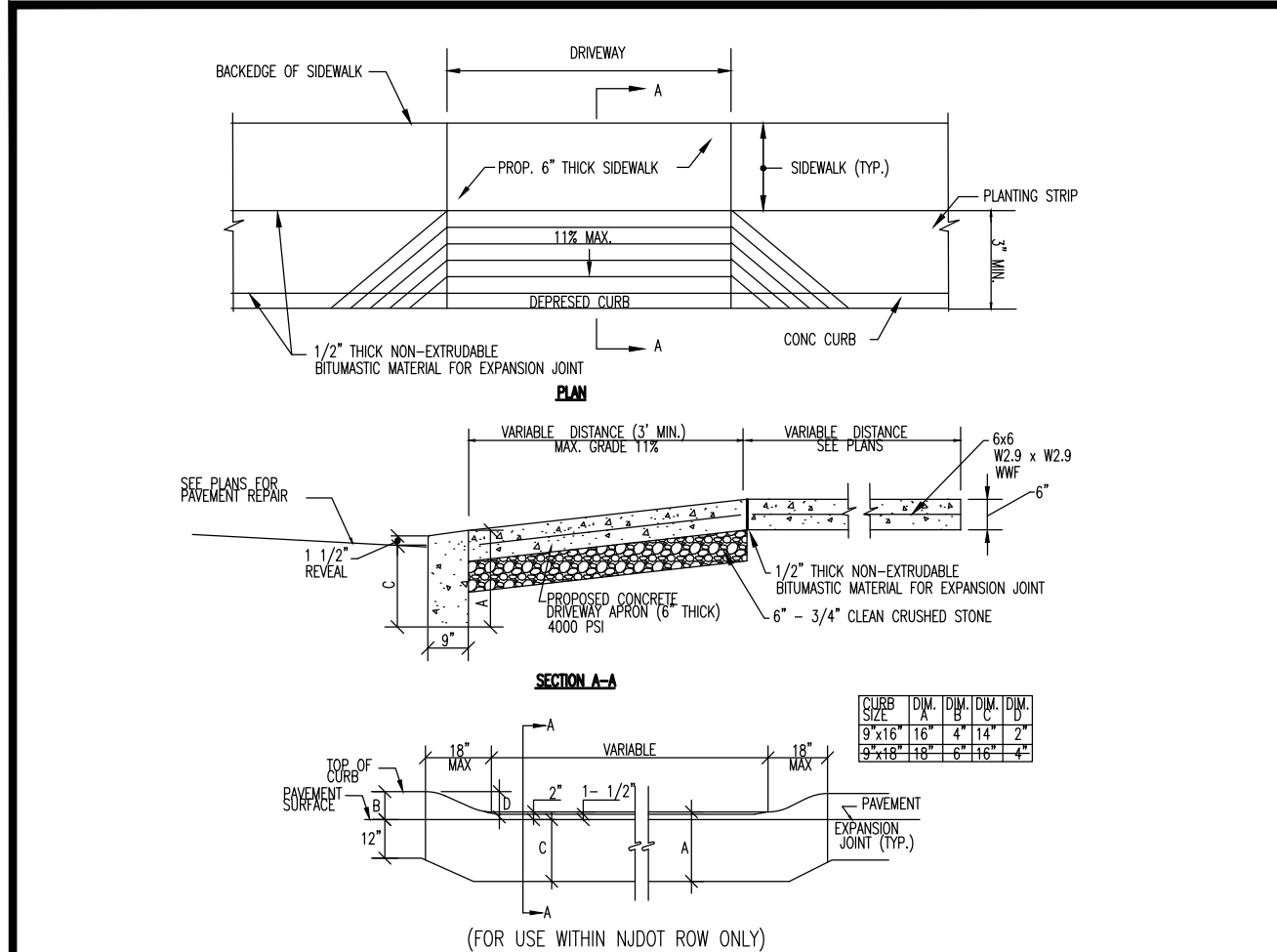
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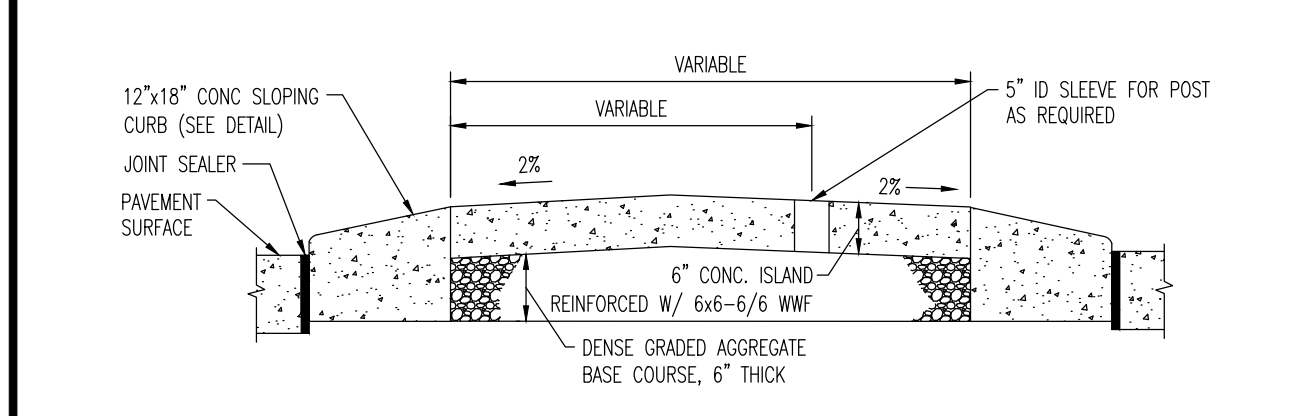
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TITLE: <b>CONSTRUCTION DETAILS</b>		JOB No: 2451-99-012 DATE: 03/20/19
PROJECT: <b>HSC BERLIN, LLC PROPOSED TRACTOR SUPPLY COMPANY</b> BLOCK 1604, LOTS 1, 2, 3, 4 & 5 901 NUSH ROUTE 73 SOUTH TOWNSHIP OF BERLIN, CAMDEN COUNTY, NEW JERSEY		DRAWN BY: KJH DESIGNED BY: KCK CHECKED BY: JMS
KYLE C. KAVINSKI PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 52985		JOSHUA M. SEWALD PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 52908
DEC Client Code: 2451		Rev. # 6

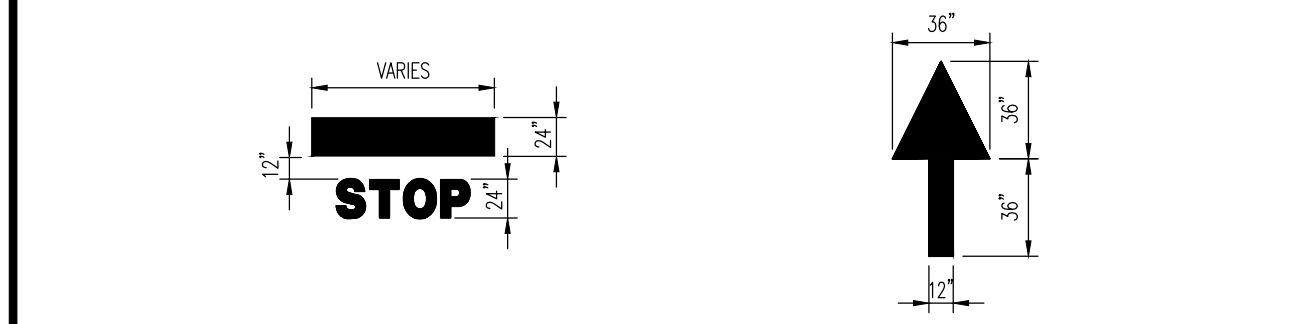




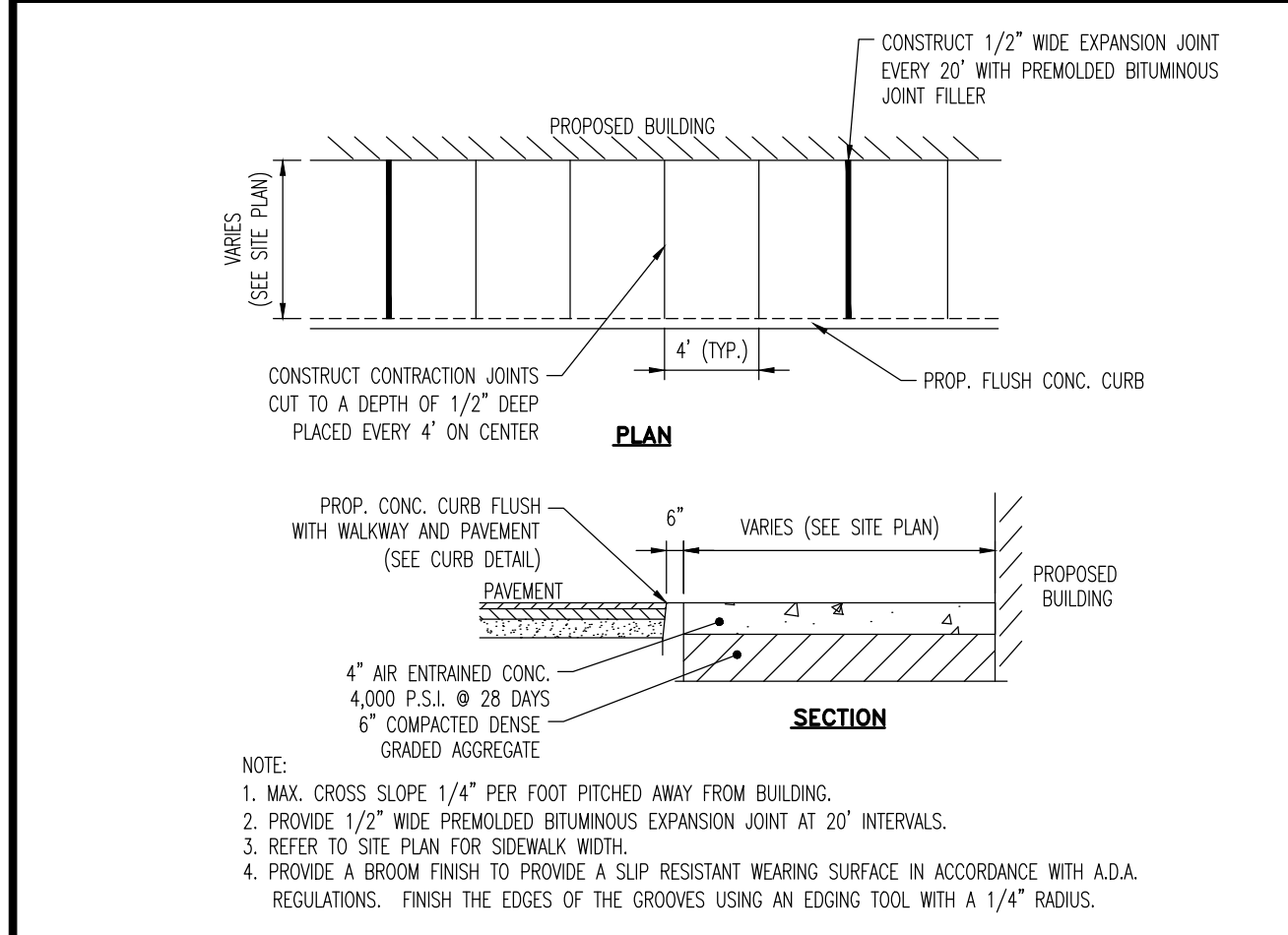
**DEPRESSED CURB & CONCRETE APRON AT DRIVEWAY DETAIL**  
NOT TO SCALE



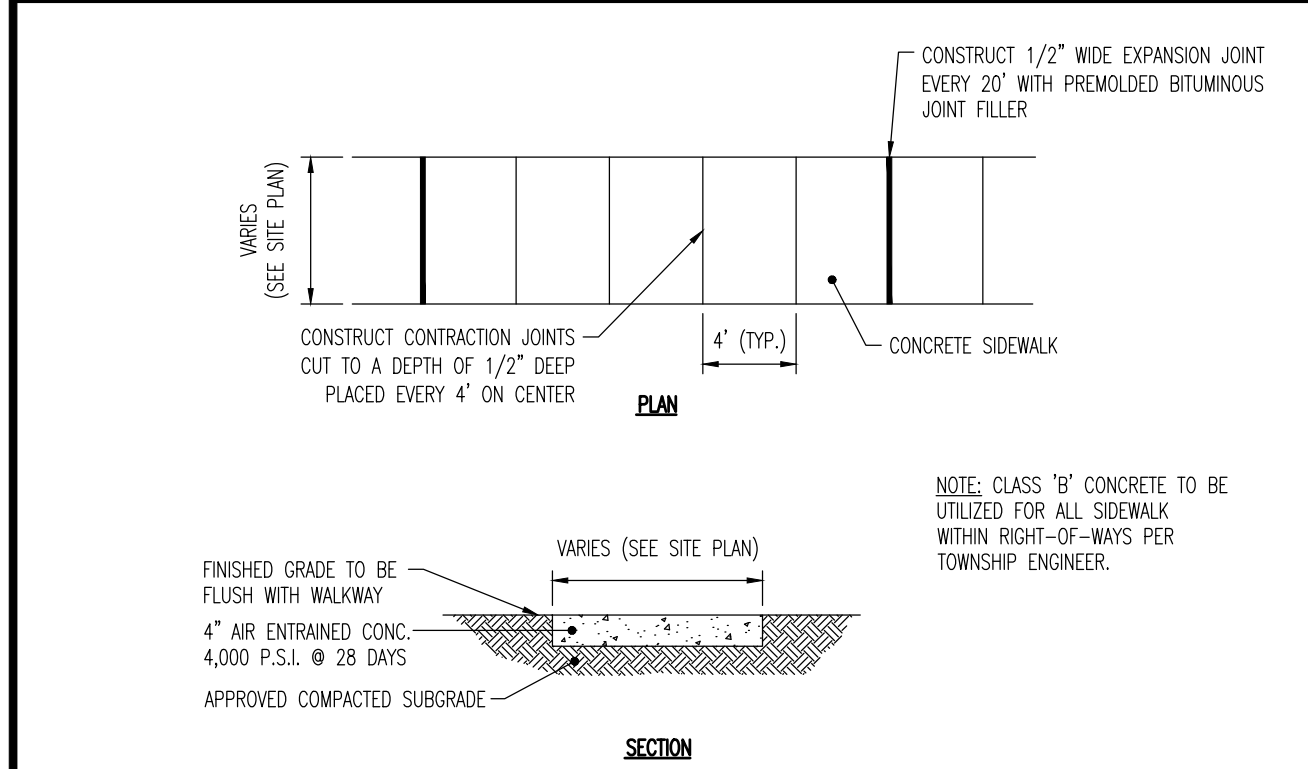
**MOUNTABLE CONCRETE ISLAND 6" THICK**  
NOT TO SCALE



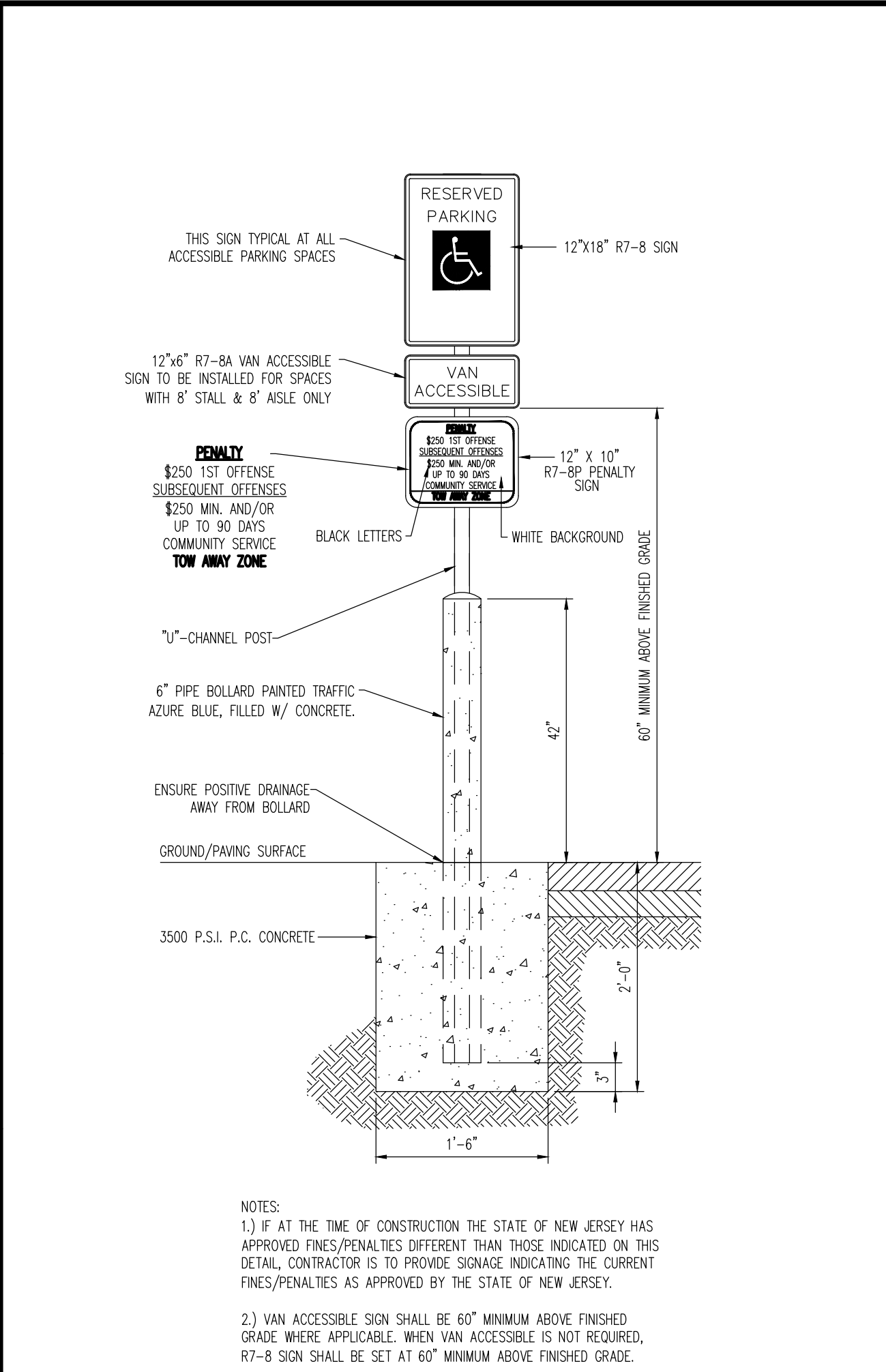
**PAINTED MARKING DETAILS**  
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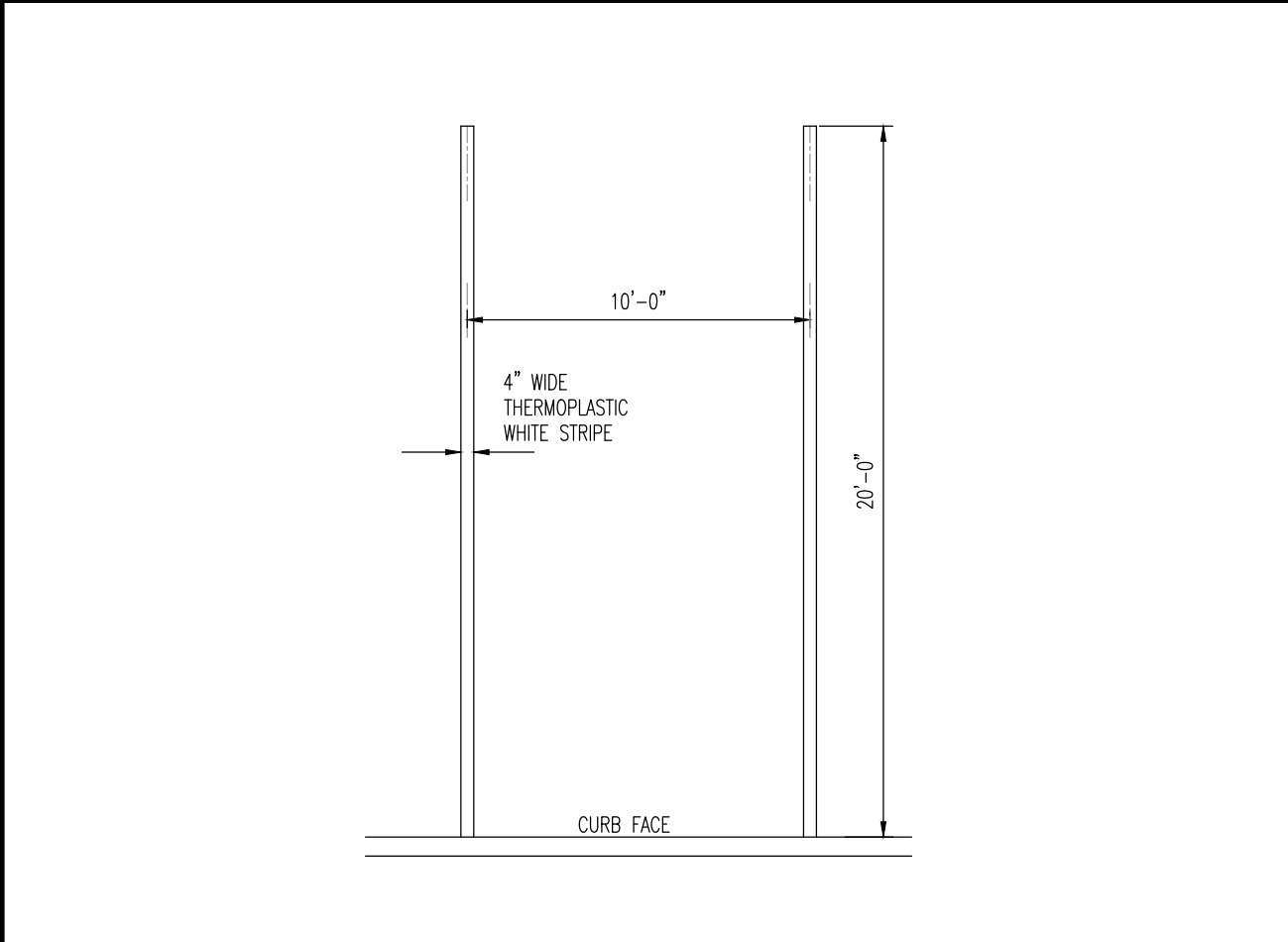
**FLUSH CURB AND WALK DETAIL AT BUILDING**  
NOT TO SCALE



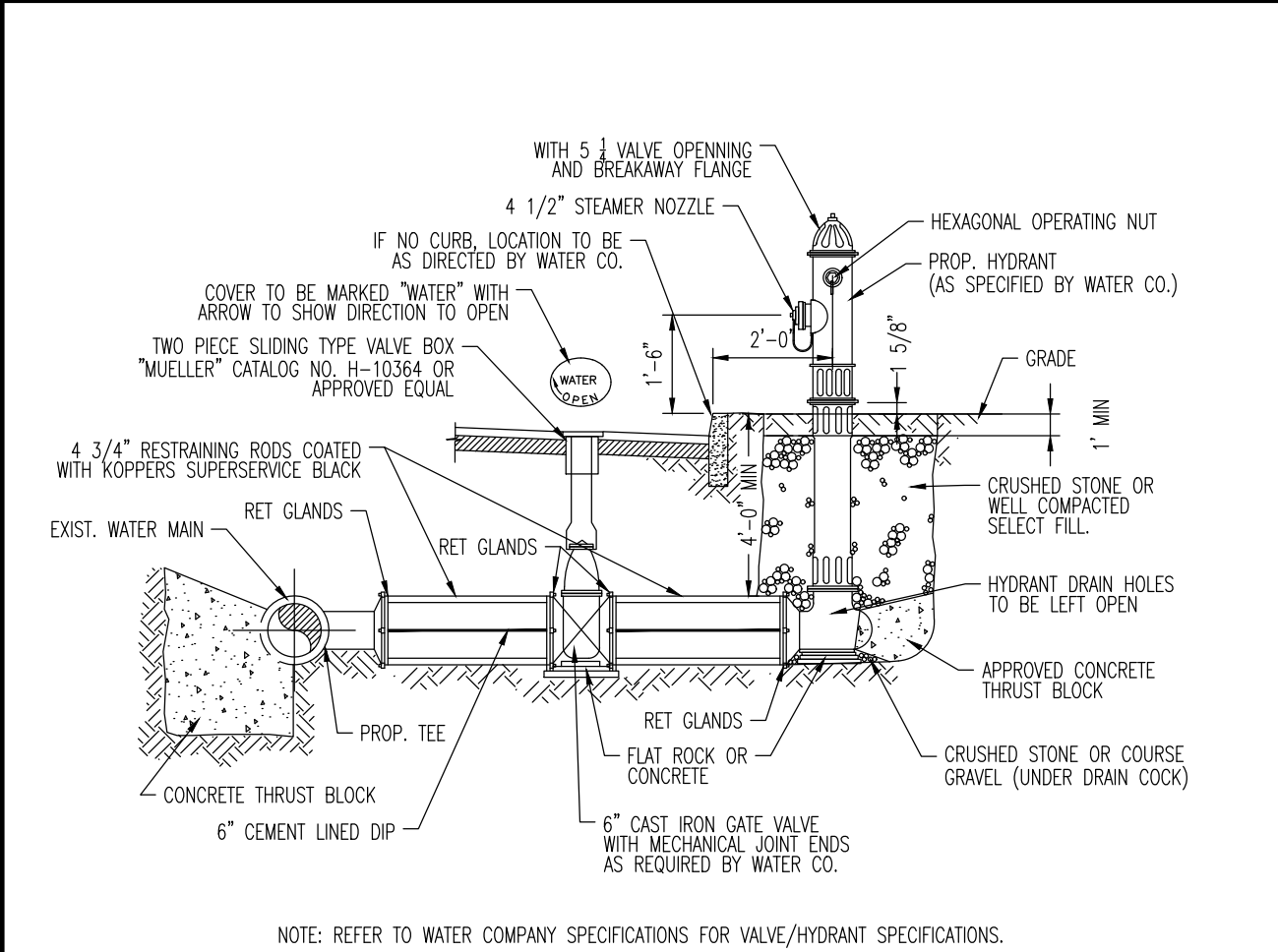
**SIDEWALK DETAIL**  
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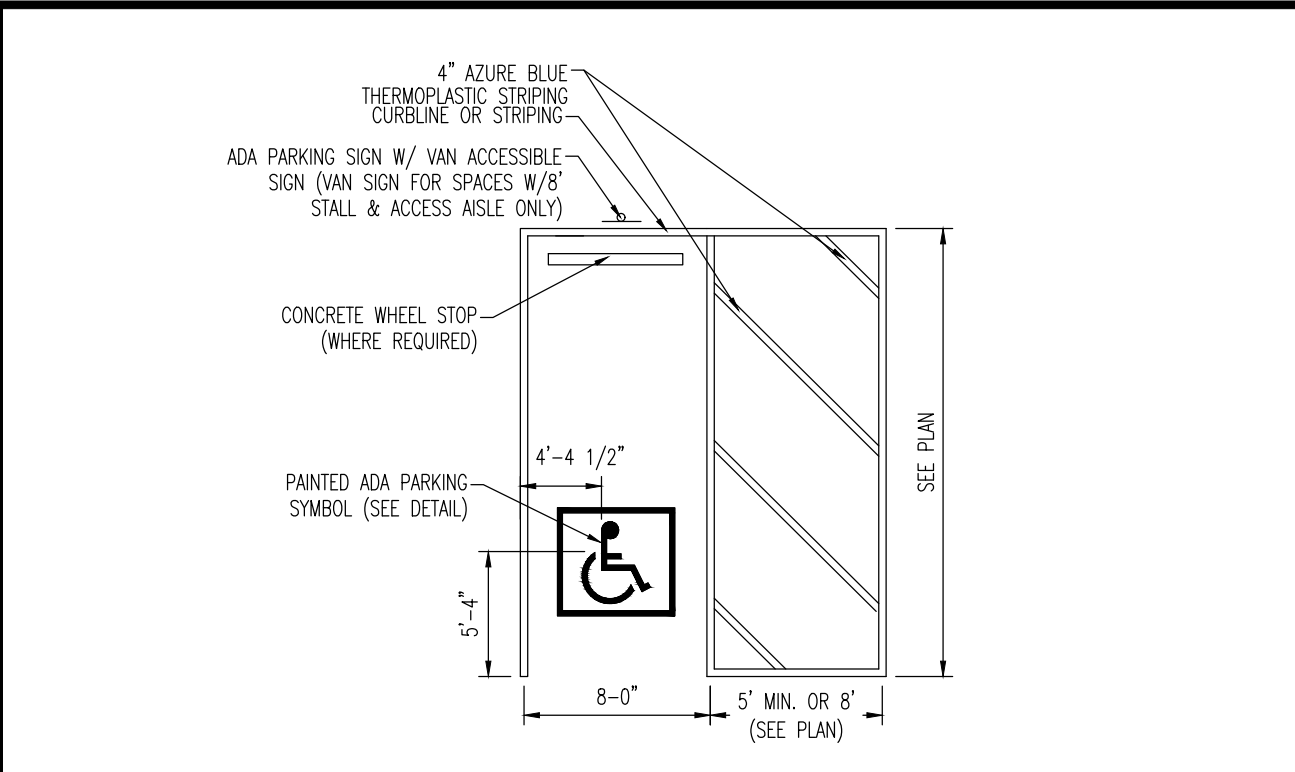
**A.D.A. PARKING SIGN ON BOLLARD DETAIL**  
NOT TO SCALE



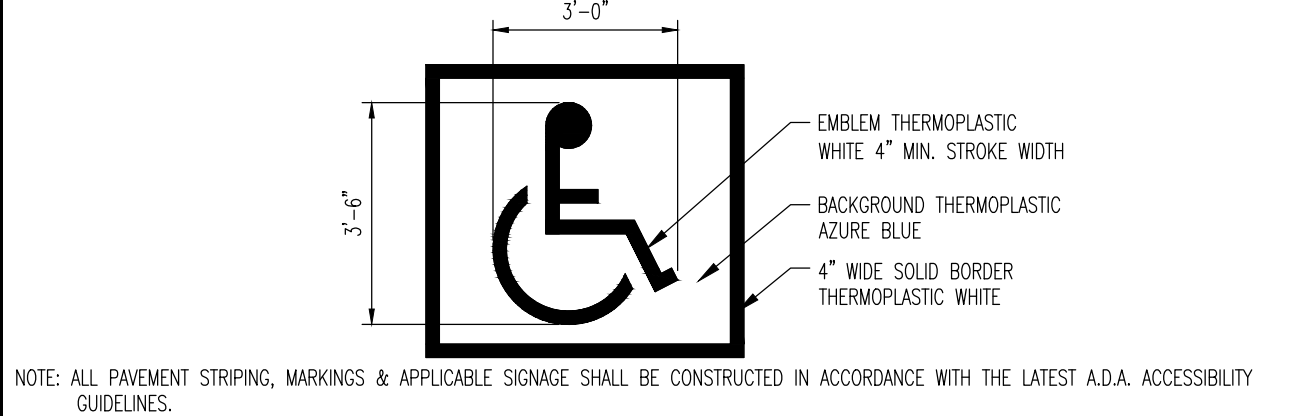
**PARKING STALL STRIPING DETAIL**  
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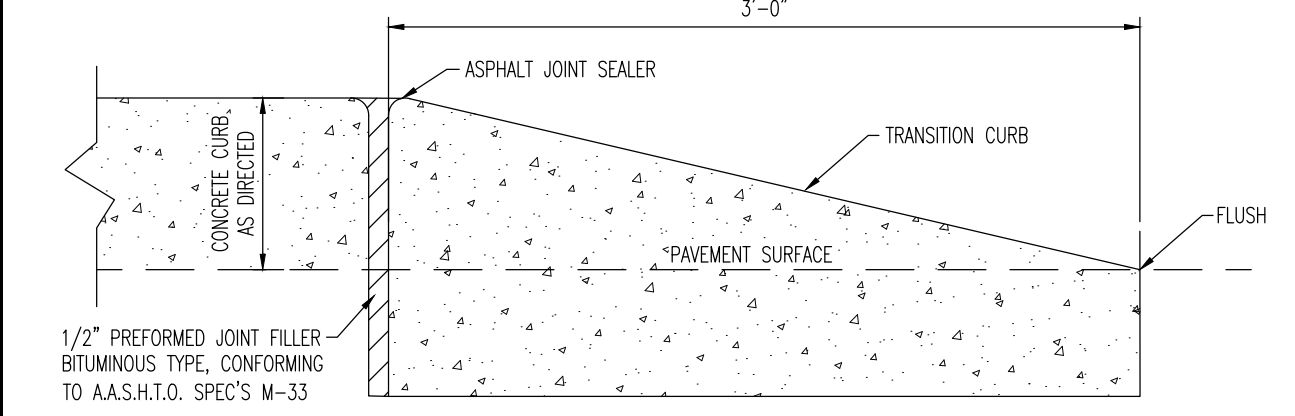
**TYPICAL HYDRANT & VALVE INSTALLATION**  
NOT TO SCALE



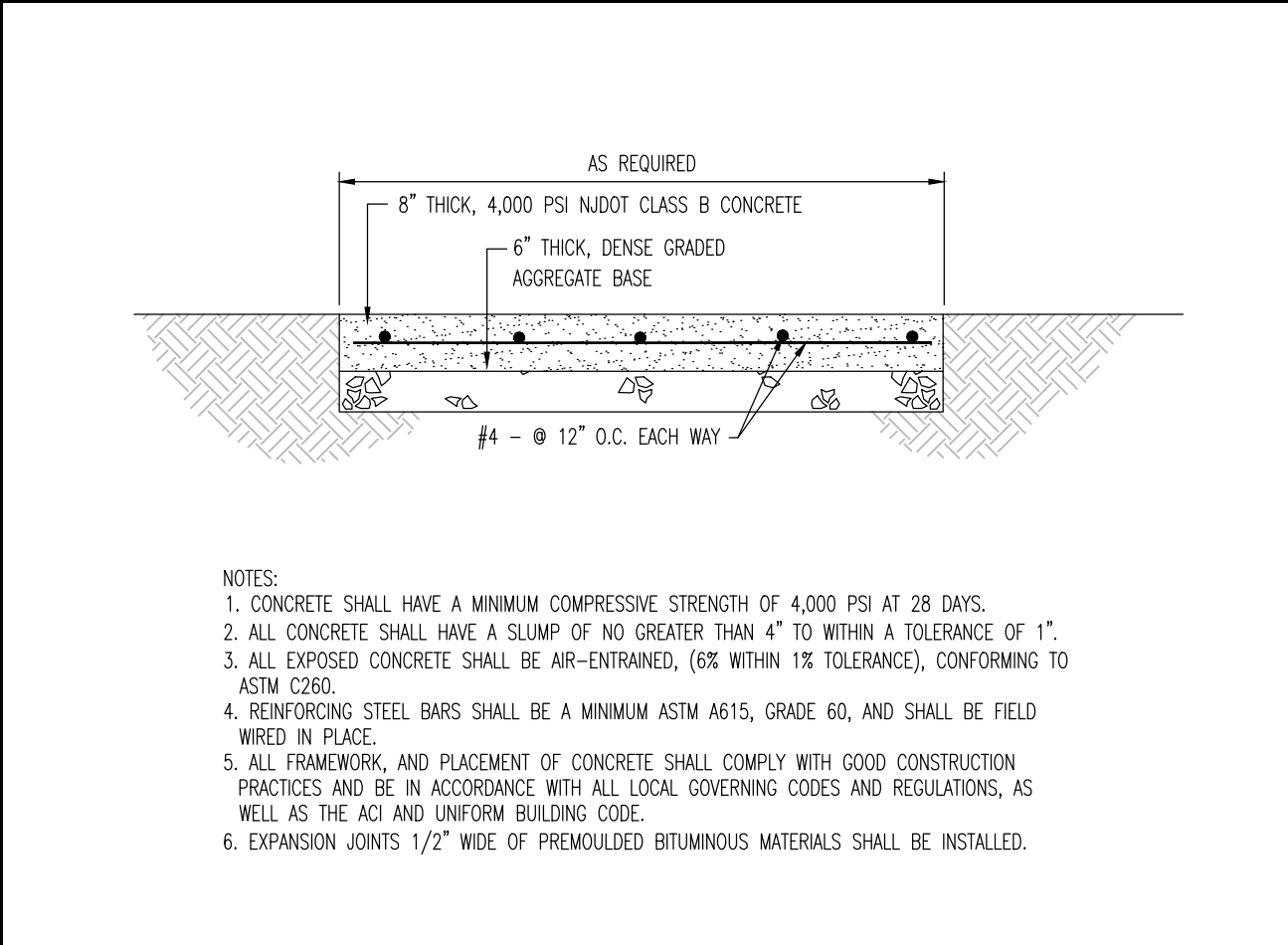
**ADA STALL MARKINGS DETAIL**  
NOT TO SCALE



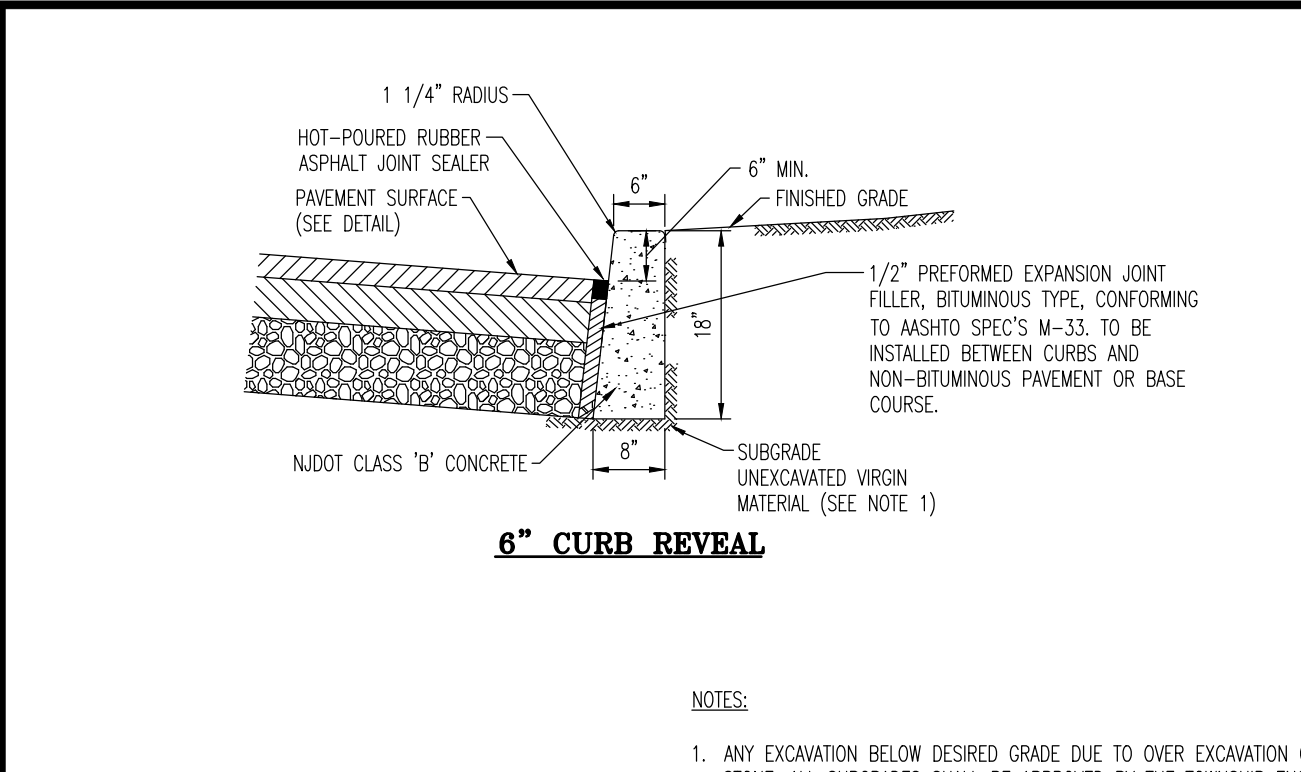
**PAINTED A.D.A. PARKING SYMBOL DETAIL**  
NOT TO SCALE



**VERTICAL CURB TAPER DETAIL**  
NOT TO SCALE



**HEAVY DUTY CONCRETE PAD DETAIL**  
NOT TO SCALE

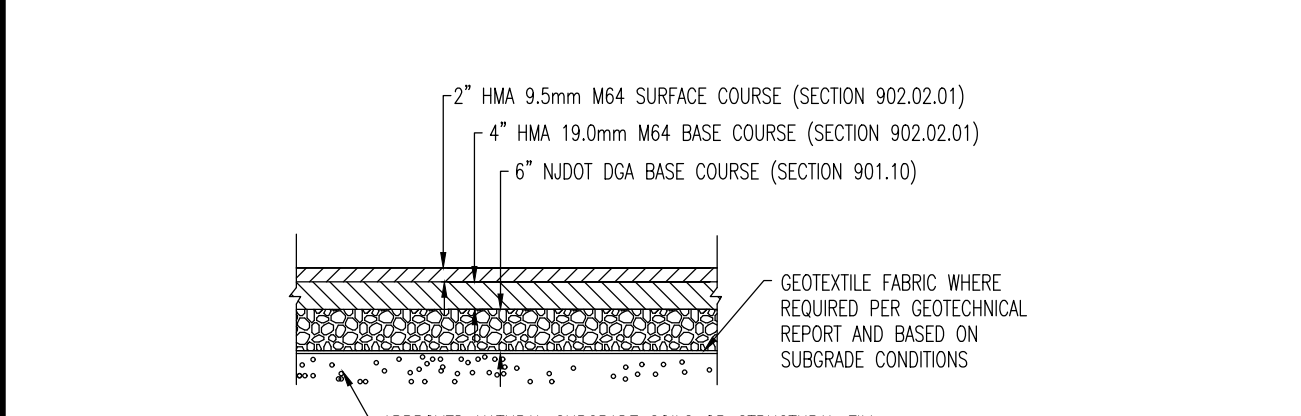


**6" CURB REVEAL**

NOTES:

1. ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH 3/4" CLEAN CRUSHED STONE. ALL SUBGRADES SHALL BE APPROVED BY THE TOWNSHIP ENGINEER PRIOR TO POURING.
2. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20'-0" APART AND SHALL BE FILLED WITH PREFORMED, BITUMINOUS-IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENTS OF AASHTO-213, RECESSED 1/4" FROM THE FRONT FACE AND TOP OF THE CURB.
3. DUMMY JOINTS (FORMED) SHALL BE INSTALLED MIDWAY BETWEEN EXPANSION JOINTS.
4. WIDTH OF JOINT FILLER STRIP EQUAL TO THE THICKNESS OF THE PAVEMENT LESS 1/2".
5. THESE SPECIFICATIONS ALSO MEET RBS DESIGN STANDARDS.

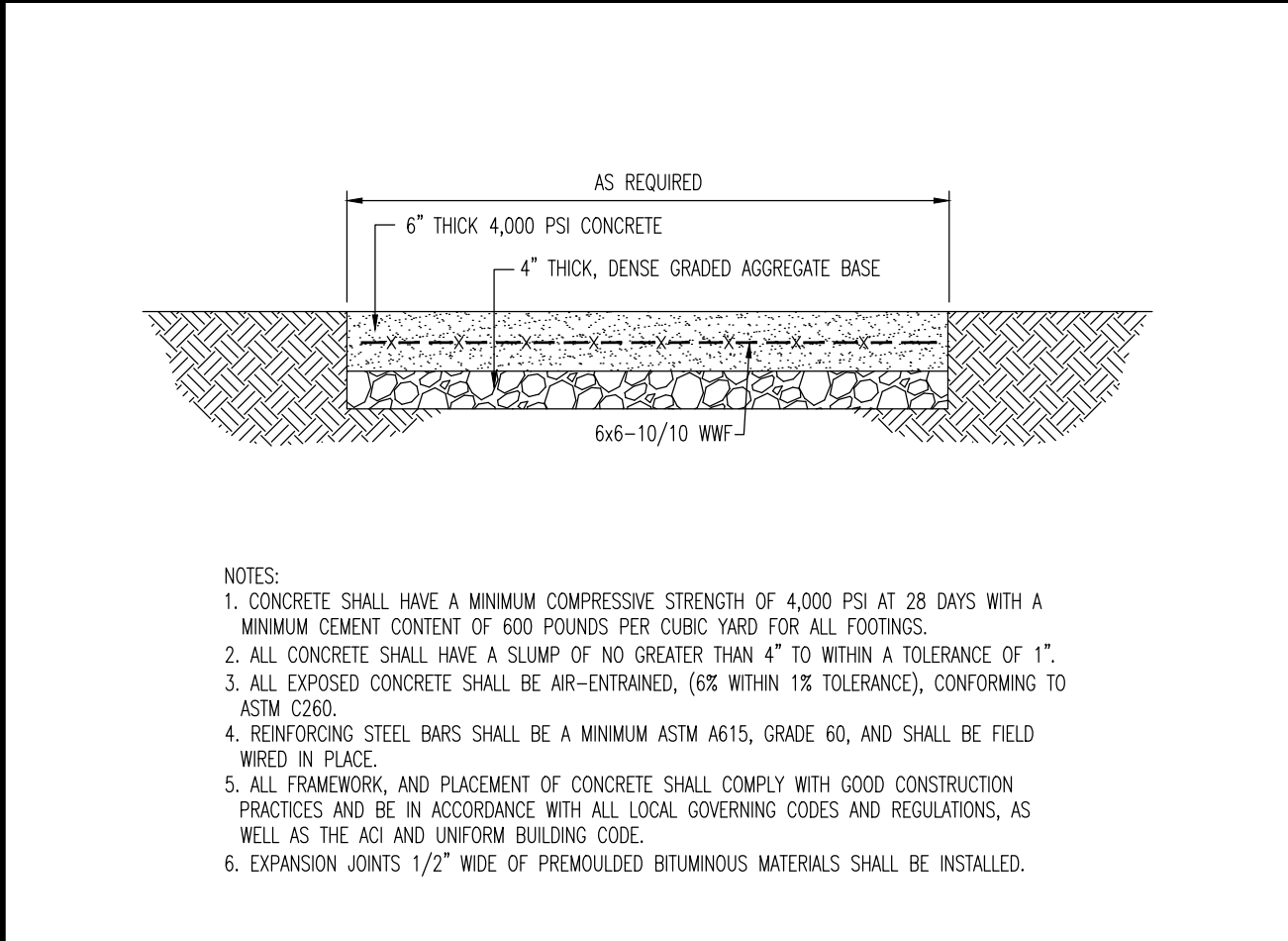
**CONCRETE CURB DETAIL**  
NOT TO SCALE



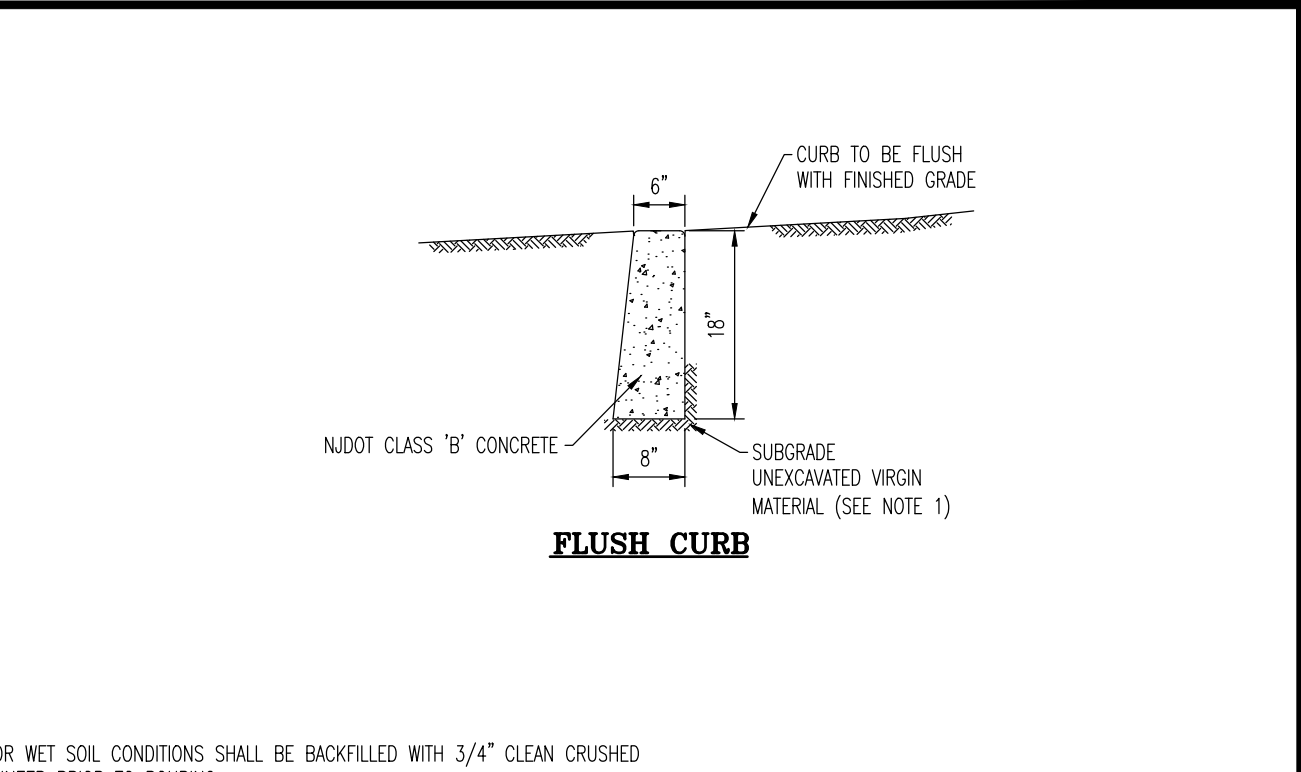
NOTES:

1. ALL PAVEMENT SECTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2019.
2. OWNER SHALL CONTACT AND ENGAGE DYNAMIC EARTH, LLC. TO INSPECT AND TEST SUBGRADE SOILS. CONTRACTOR SHALL CONTACT DYNAMIC EARTH, LLC. AT (908) 879-7095 (WWW.DYNAMIC-EARTH.COM) AT ONSET OF CONSTRUCTION TO CONFIRM REQUIREMENTS AND COORDINATE INSPECTIONS.
3. SUBGRADE SOILS SHALL BE APPROVED BY DYNAMIC EARTH, LLC. APPROVED NATURAL SOILS SHALL BE COMPACTED AND PROOFROLLED WITH A LOADED TANDEM AXLE TRUCK TO A FIRM AND UNYIELDING CONDITION. UNSUITABLE MATERIALS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL OR STABILIZED AS DIRECTED BY DYNAMIC EARTH, LLC. ANY STRUCTURAL FILL AT OR BELOW PAVEMENT SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM-D1557.
4. CONTRACTOR TO REFER TO GEOTECHNICAL REPORT FOR FINAL PAVEMENT SECTION DESCRIPTION.

**HEAVY DUTY PAVEMENT SECTION**  
NOT TO SCALE



**CONCRETE PAD DETAIL**  
NOT TO SCALE

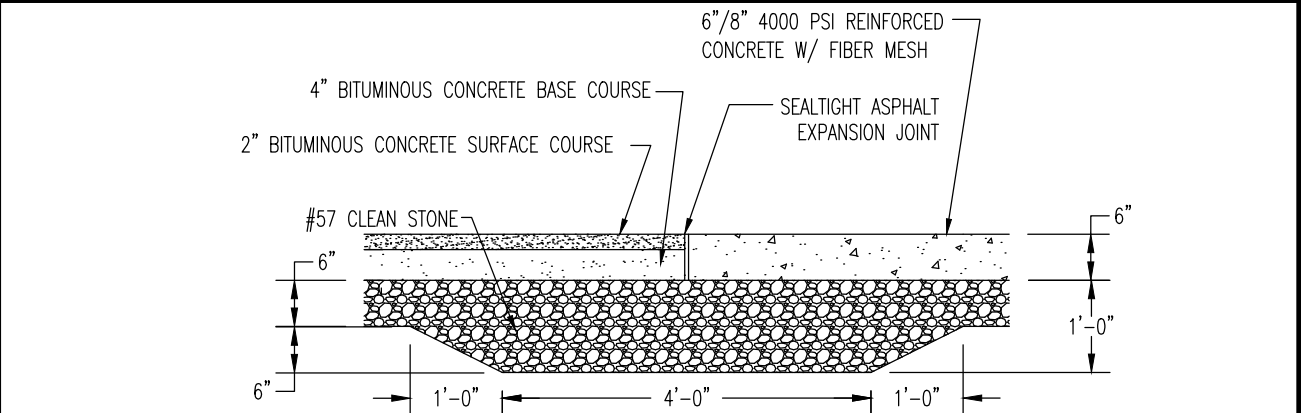


**FLUSH CURB**

NOTES:

1. ALL PAVEMENT SECTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2019.
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4. CONTRACTOR TO REFER TO GEOTECHNICAL REPORT FOR FINAL PAVEMENT SECTION DESCRIPTION.

**STANDARD PAVING DETAIL**  
NOT TO SCALE



**CONCRETE TO ASPHALT TRANSITION DETAIL**  
NOT TO SCALE

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Allen, Texas 1: 972.534.2100 | Austin, Texas 1: 512.446.2444 | Houston, Texas 1: 281.789.6400  
Denver, Colorado 1: 303.951.8070

**CONSTRUCTION DETAILS**

TITLE: **HSC BERLIN, LLC PROPOSED TRACTOR SUPPLY COMPANY**

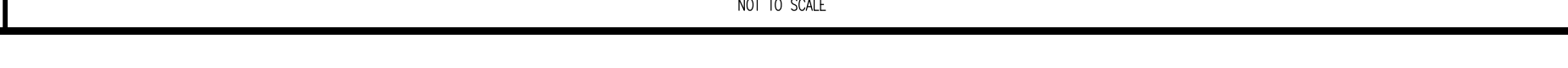
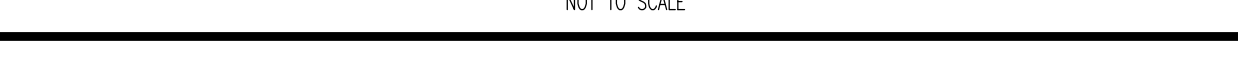
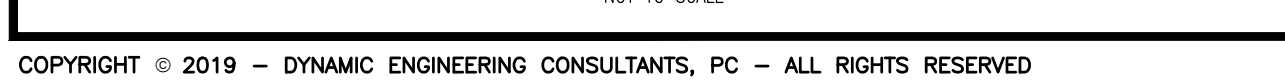
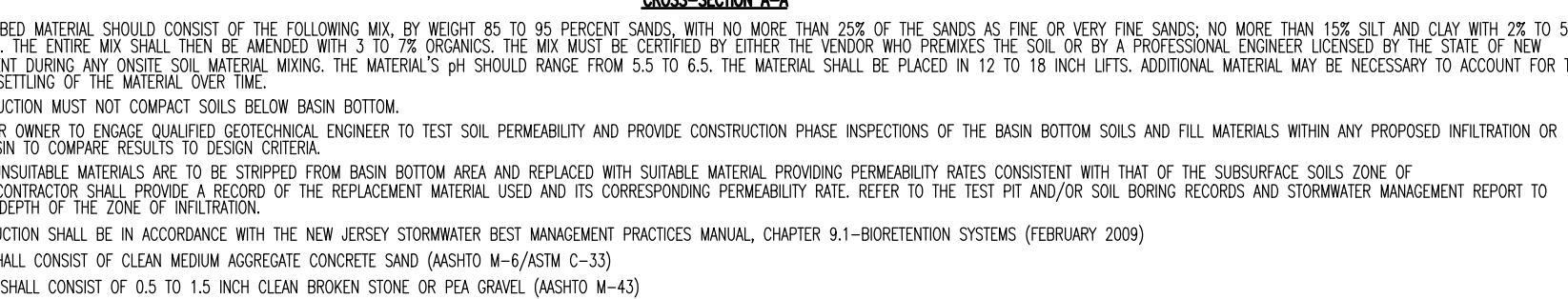
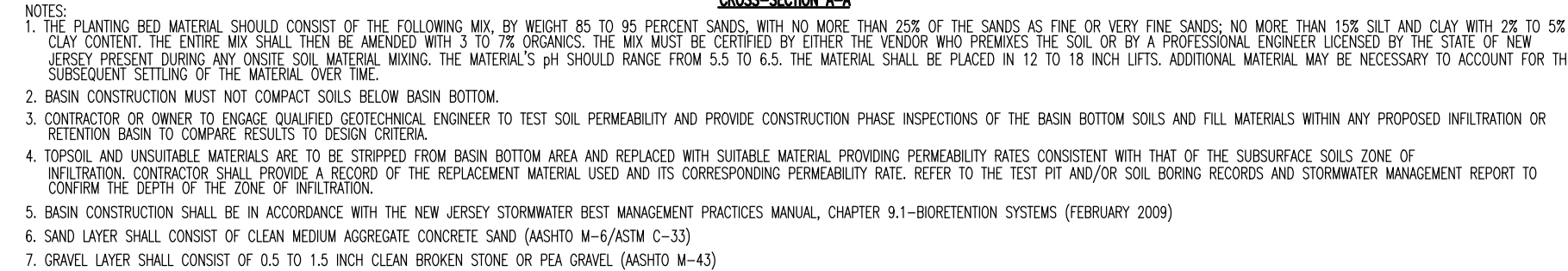
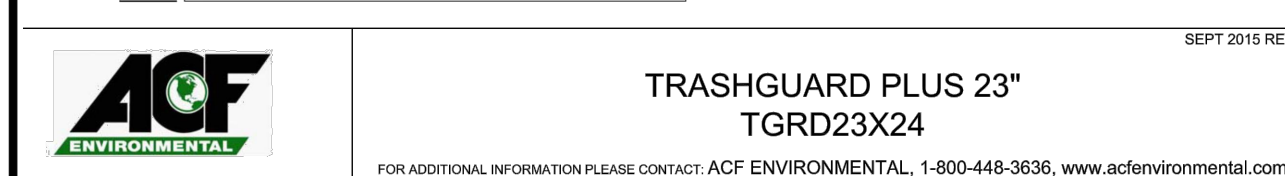
PROJECT: **BLOCK 1604, LOTS 1, 2, 3, 4 & 5 901 NUSH ROUTE 73 SOUTH TOWNSHIP OF BERLIN, CAMDEN COUNTY, NEW JERSEY**

PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE No. 52985

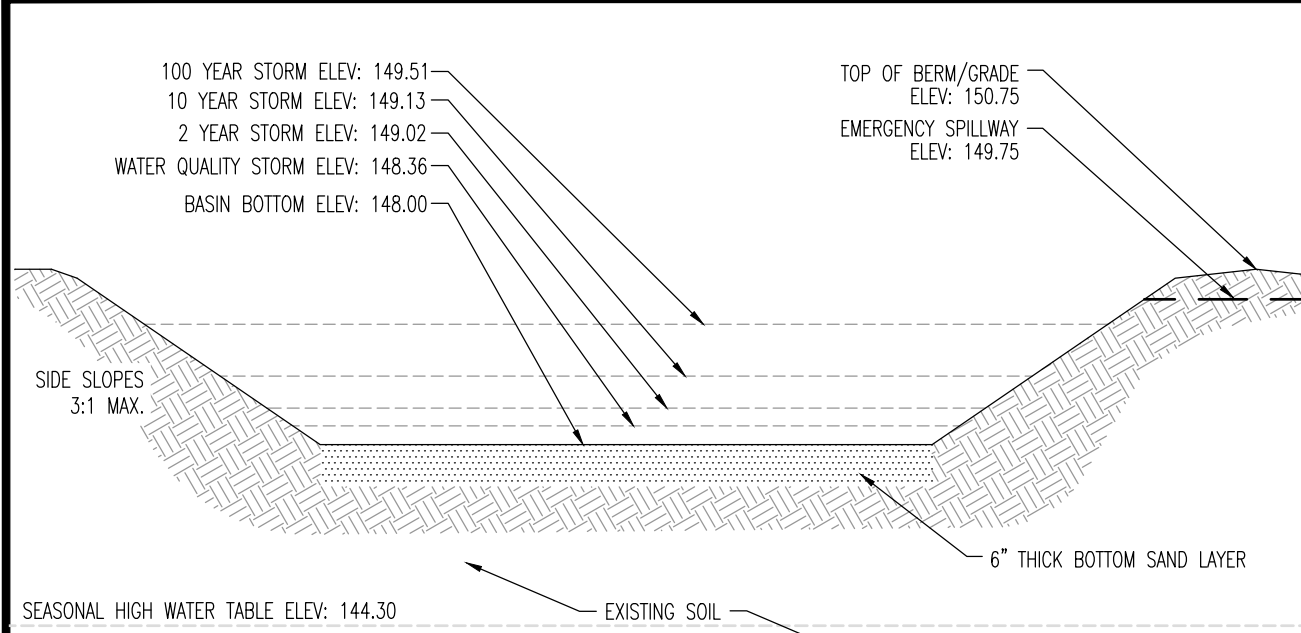
PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE No. 52908

JOB No: 2451-99-012  
DATE: 03/20/19  
DRAWN BY: KJH  
DESIGNED BY: KCK  
CHECKED BY: JMS  
CONSTRUCTION CHECK: DATE  
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DEC Client Code: 2451  
Rev. # 6



[illegible]



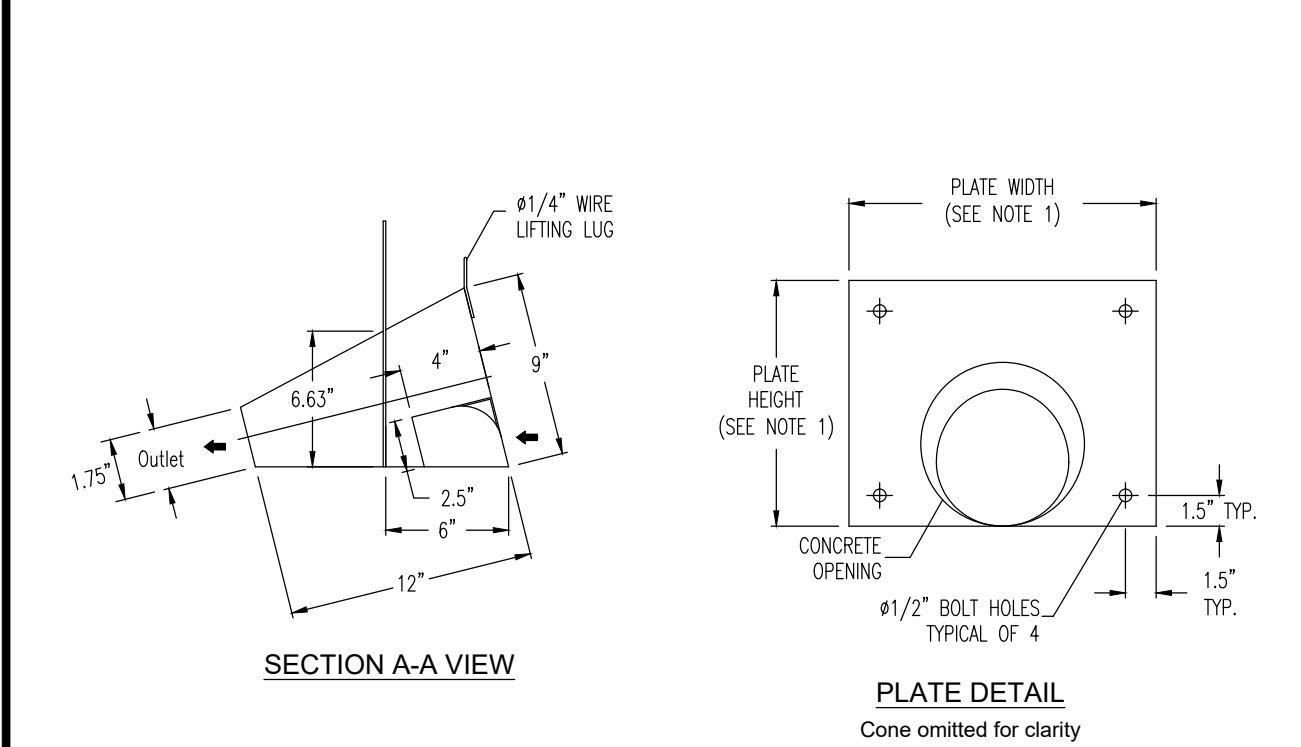
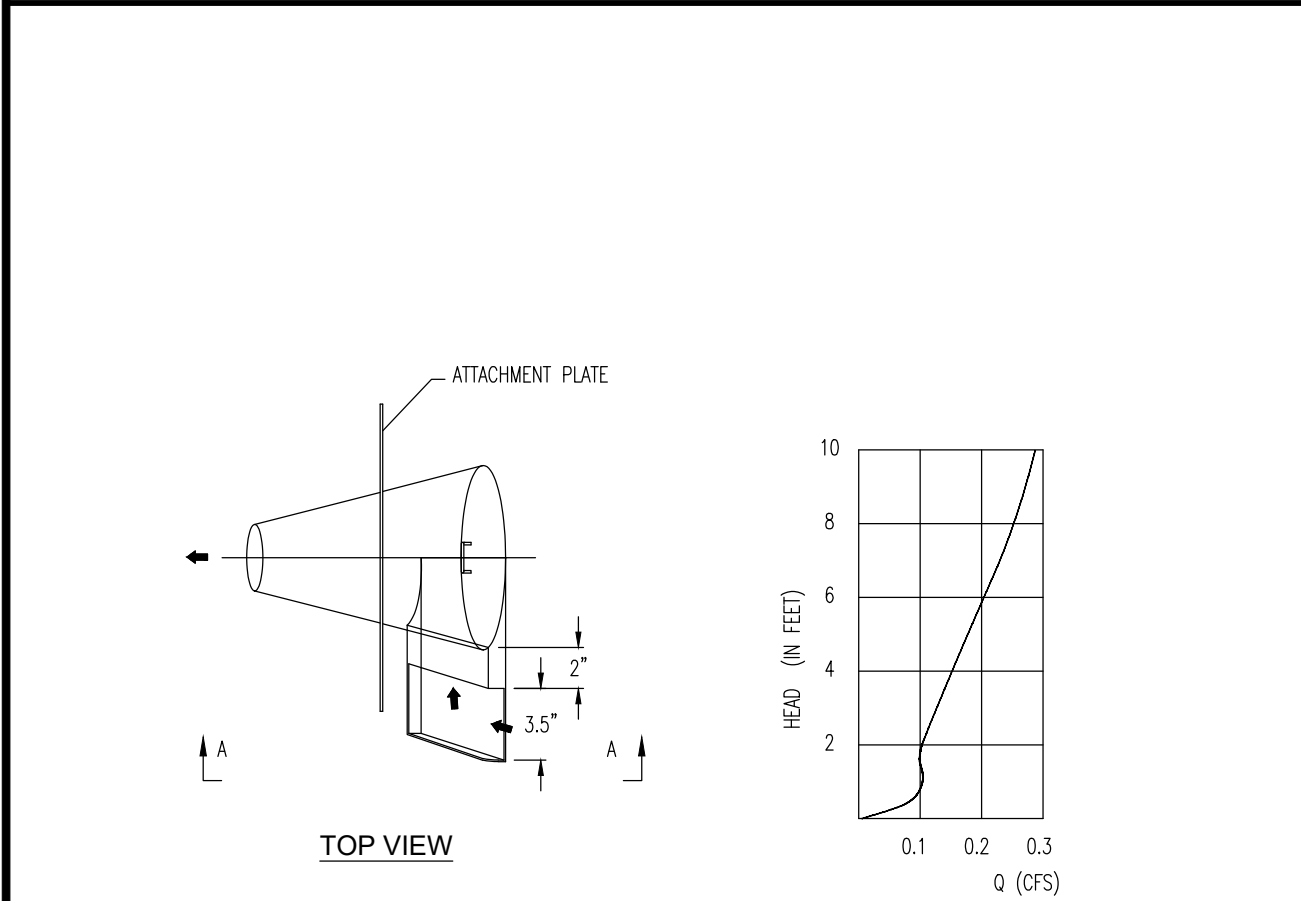


NOTES:

- CONTRACTOR OR OWNER TO ENGAGE QUALIFIED GEOTECHNICAL ENGINEER TO TEST SOIL PERMEABILITY AND PROVIDE CONSTRUCTION PHASE INSPECTIONS OF THE BASIN BOTTOM SOILS AND FILL MATERIALS WITHIN ANY PROPOSED INFILTRATION OR RETENTION BASIN TO COMPARE RESULTS TO DESIGN CRITERIA.
- TOPSOIL AND UNSUITABLE MATERIALS ARE TO BE STRIPPED FROM BASIN BOTTOM AREA AND REPLACED WITH SUITABLE MATERIAL PROVIDING PERMEABILITY RATES CONSISTENT WITH THAT OF THE SUBSURFACE SOILS ZONE OF INFILTRATION. CONTRACTOR SHALL PROVIDE A RECORD OF THE REPLACEMENT MATERIAL USED AND ITS CORRESPONDING PERMEABILITY RATE. REFER TO THE TEST PIT AND/OR SOIL BORING RECORDS AND STORMWATER MANAGEMENT REPORT TO CONFIRM THE DEPTH OF THE ZONE OF INFILTRATION.
- BOTTOM SAND LAYER MUST CONSIST OF #5 SAND WITH A MAXIMUM OF 15% FINES AND A MINIMUM PERMEABILITY RATE OF 20 INCHES PER HOUR. SOIL TO BE CERTIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER.
- BASIN CONSTRUCTION MUST NOT COMPACT SOILS BELOW BASIN BOTTOM.

### INFILTRATION BASIN (SAND) 'D' DETAIL

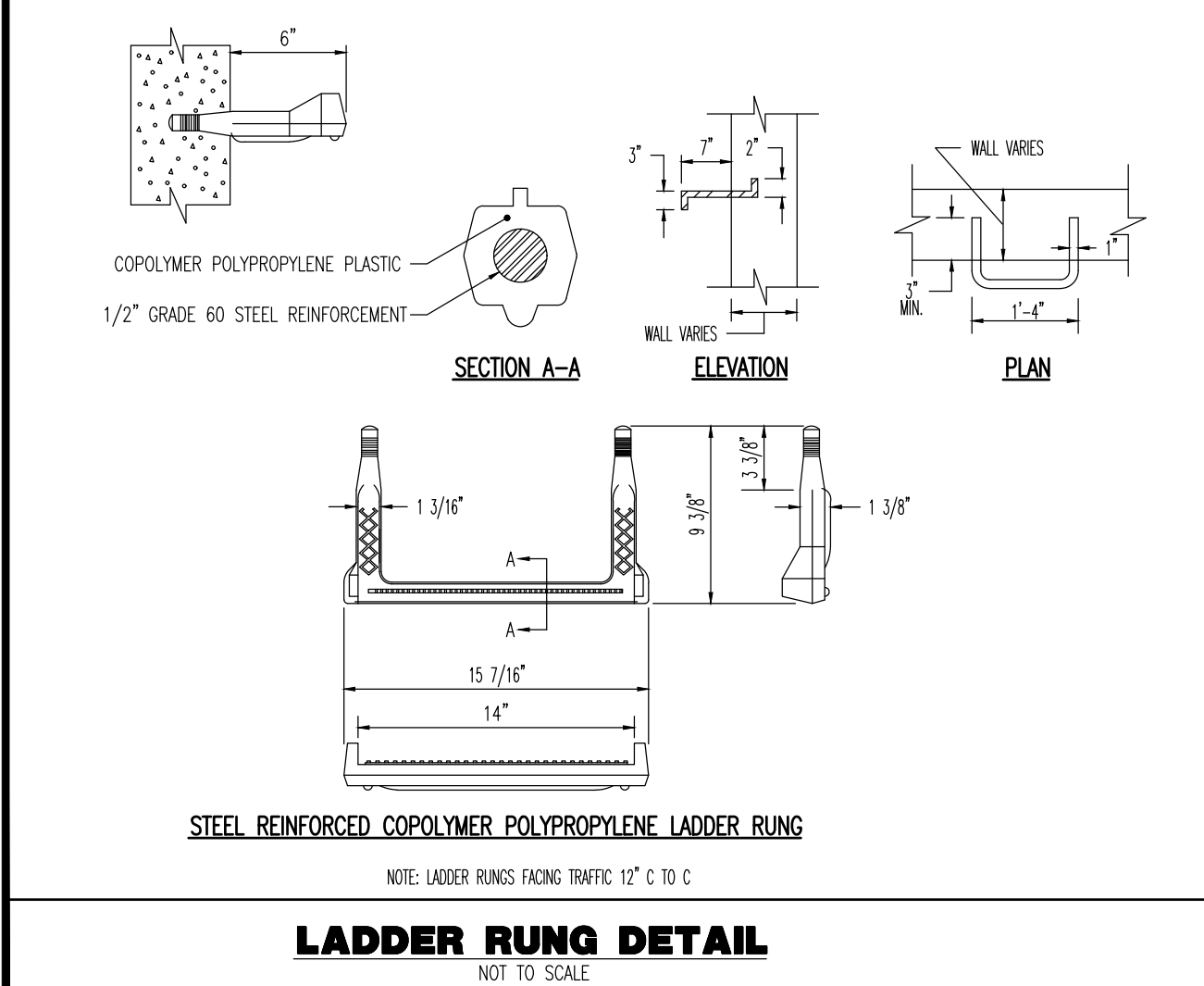
NOT TO SCALE



- NOTES:
- ATTACHMENT PLATE WIDTH AND HEIGHT VARIES BASED ON CONCRETE OPENING SIZE.
  - OUTLET SIZE = #3" MINIMUM
  - ALL WELDS CONTINUOUS UNLESS NOTED OTHERWISE. MATERIALS: 12 GA. 304L STAINLESS STEEL

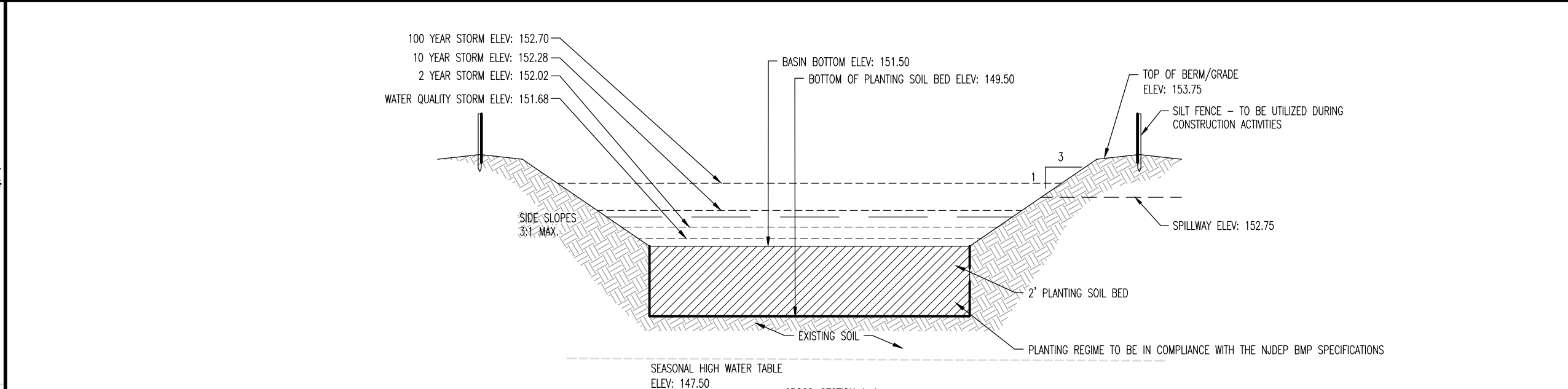
### CONTECH FLUIDIC-CONE HYDROBRAKE MODEL FC9B WITH PLATE ATTACHMENT & BOX INLET

NOT TO SCALE



### LADDER RUNG DETAIL

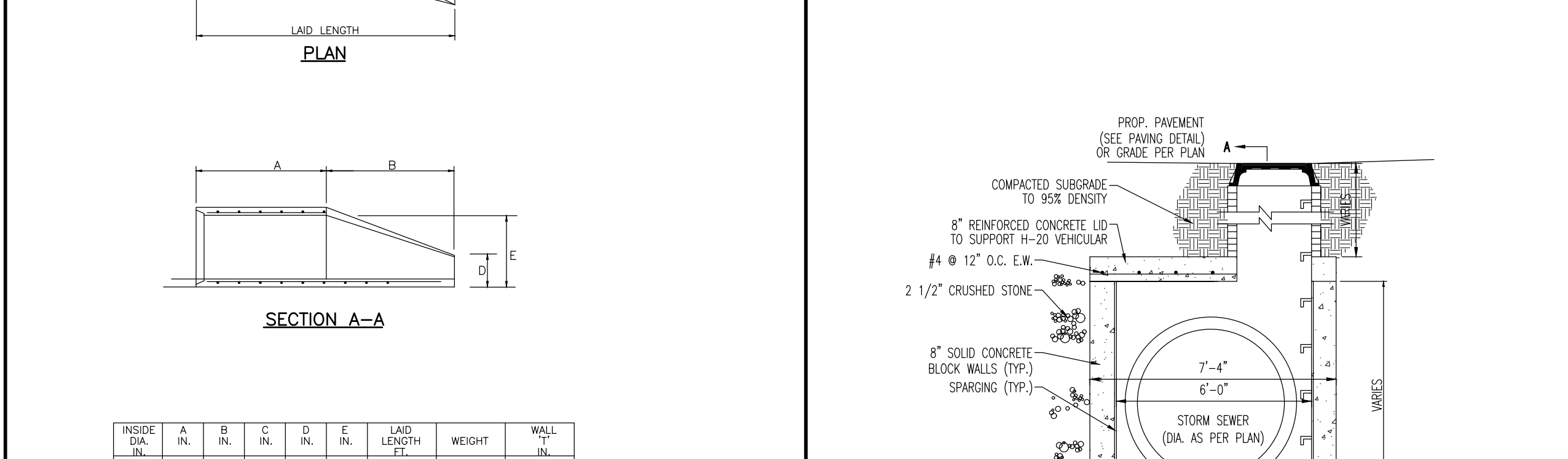
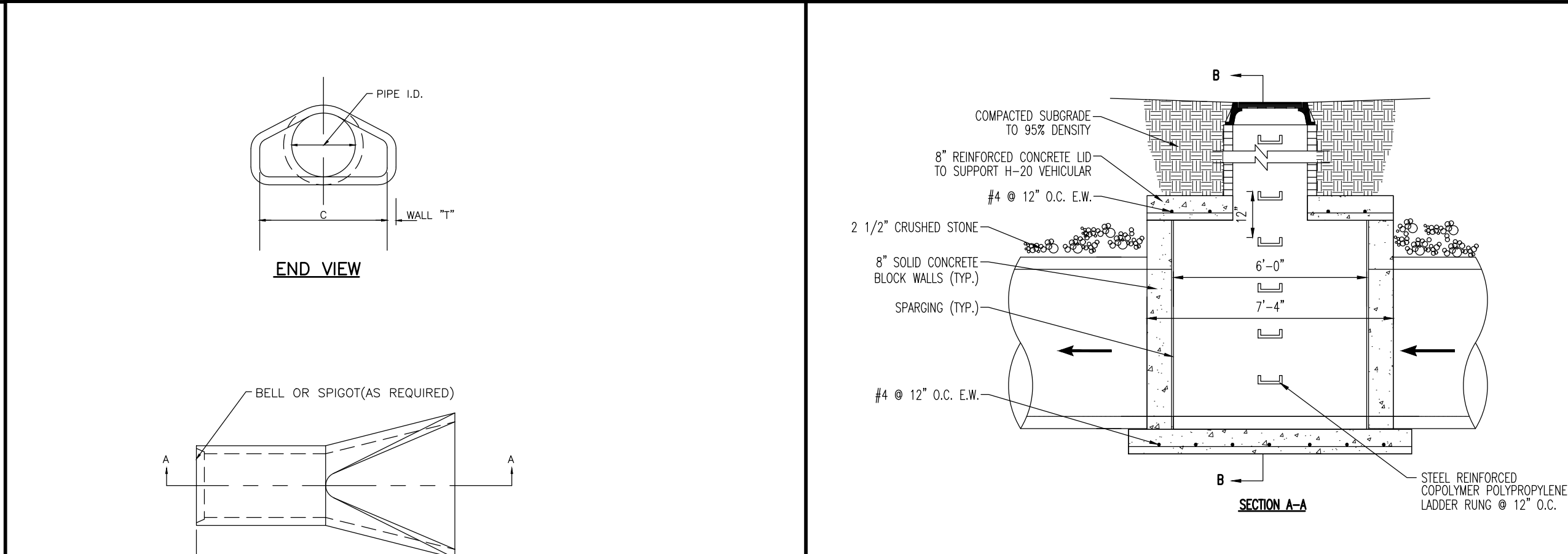
NOT TO SCALE



- NOTES:
- THE PLANTING BED MATERIAL SHOULD CONSIST OF THE FOLLOWING MIX BY WEIGHT 85 TO 95 PERCENT SANDS, WITH NO MORE THAN 25% OF THE SANDS AS FINE OR VERY FINE SANDS, NO MORE THAN 15% SILT AND CLAY WITH 7% TO 5% CLAY CONTENT. THE ENTIRE MIX SHALL THEN BE ADJUCED WITH 3 TO 7% ORGANICS. THE MIX MUST BE CERTIFIED BY EITHER THE VENDOR WHO PROVIDES THE SOIL OR BY A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF NEW JERSEY PRESENT DURING ANY ONSITE SOIL MATERIAL MIXING. THE MATERIAL'S pH SHOULD RANGE FROM 5.5 TO 6.5. THE MATERIAL SHALL BE PLACED IN 12 TO 18 INCH LIFTS. ADDITIONAL MATERIAL MAY BE NECESSARY TO ACCOUNT FOR THE SUBSEQUENT SETTLING OF THE MATERIAL OVER TIME.
  - BASIN CONSTRUCTION MUST NOT COMPACT SOILS BELOW BASIN BOTTOM.
  - CONTRACTOR OR OWNER TO ENGAGE QUALIFIED GEOTECHNICAL ENGINEER TO TEST SOIL PERMEABILITY AND PROVIDE CONSTRUCTION PHASE INSPECTIONS OF THE BASIN BOTTOM SOILS AND FILL MATERIALS WITHIN ANY PROPOSED INFILTRATION OR RETENTION BASIN TO COMPARE RESULTS TO DESIGN CRITERIA.
  - TOPSOIL AND UNSUITABLE MATERIALS ARE TO BE STRIPPED FROM BASIN BOTTOM AREA AND REPLACED WITH SUITABLE MATERIAL PROVIDING PERMEABILITY RATES CONSISTENT WITH THAT OF THE SUBSURFACE SOILS ZONE OF INFILTRATION. CONTRACTOR SHALL PROVIDE A RECORD OF THE REPLACEMENT MATERIAL USED AND ITS CORRESPONDING PERMEABILITY RATE. REFER TO THE TEST PIT AND/OR SOIL BORING RECORDS AND STORMWATER MANAGEMENT REPORT TO CONFIRM THE DEPTH OF THE ZONE OF INFILTRATION.
  - BASIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL, CHAPTER 9.1-BIORETENTION SYSTEMS (FEBRUARY 2009)
  - SAND LAYER SHALL CONSIST OF CLEAN MEDIUM AGGREGATE CONCRETE SAND (ASHFO M-6/ASTM C-33)
  - GRAVEL LAYER SHALL CONSIST OF 0.5 TO 1.5 INCH CLEAN BROKEN STONE OR PEA GRAVEL (ASHFO M-43)

### BIORETENTION BASIN 'E' DETAIL

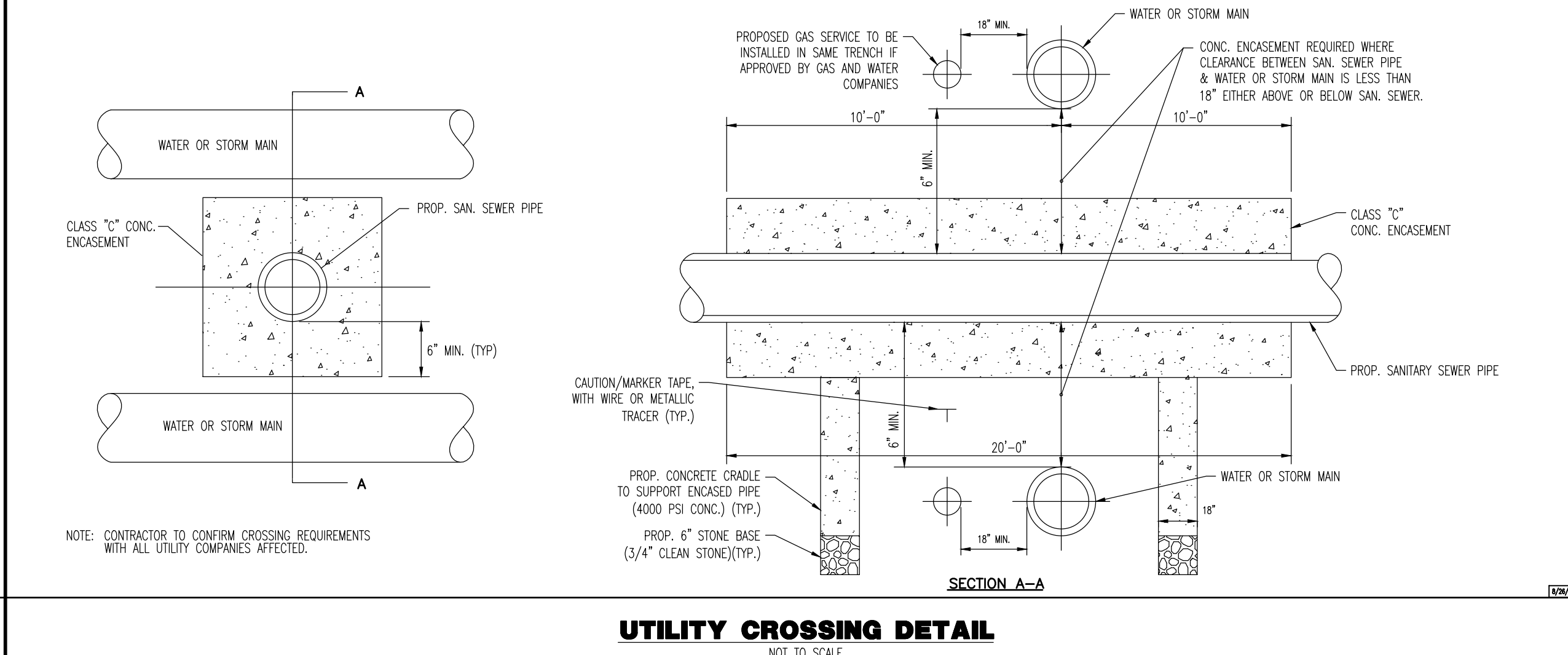
NOT TO SCALE



INSIDE DIA. IN.	A IN.	B IN.	C IN.	D IN.	E IN.	LAI D LENGTH FT.	WEIGHT LBS.	WALL TH. IN.
12	49	24	24	4	13	6.00	530	2
15	46	27	30	6	16	6.08	740	2 1/4
18	46	27	36	9	19	6.08	980	2 1/2
21	38	35	42	9	22	6.08	1280	2 3/4
24	30	44	48	9 1/2	25	6.17	1520	3
27	26	48	54	10 1/2	28	6.17	1930	3 1/4
30	20	54	60	12	31	6.17	2190	3 1/2
36	35	63	72	15	37	8.17	4100	4
42	35	63	72	21	43	8.17	5380	4 1/2
48	26	72	84	24	49	8.17	6550	5
54	35	65	90	27	56	8.33	8040	5 1/2
60	39	60	96	30	61	8.25	8750	6

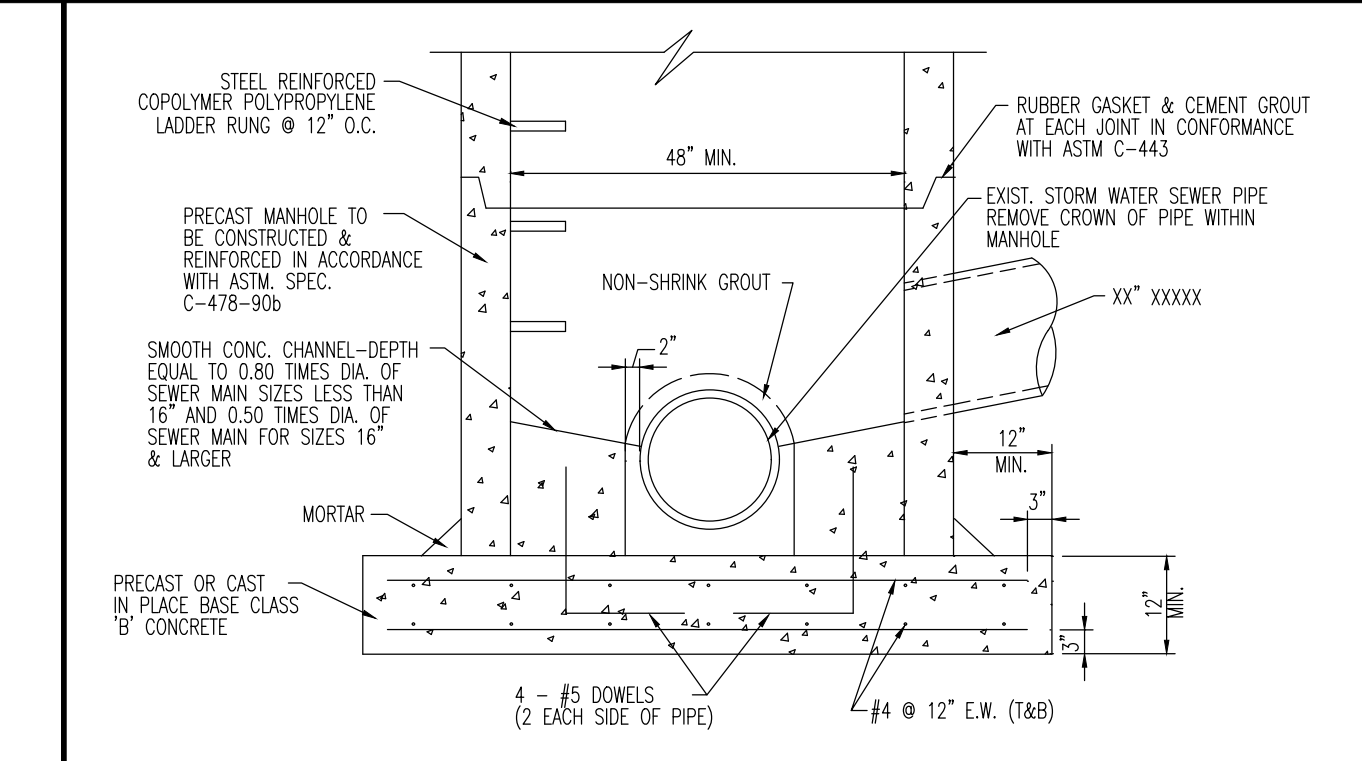
### CONCRETE FLARED END SECTIONS

NOT TO SCALE



### UTILITY CROSSING DETAIL

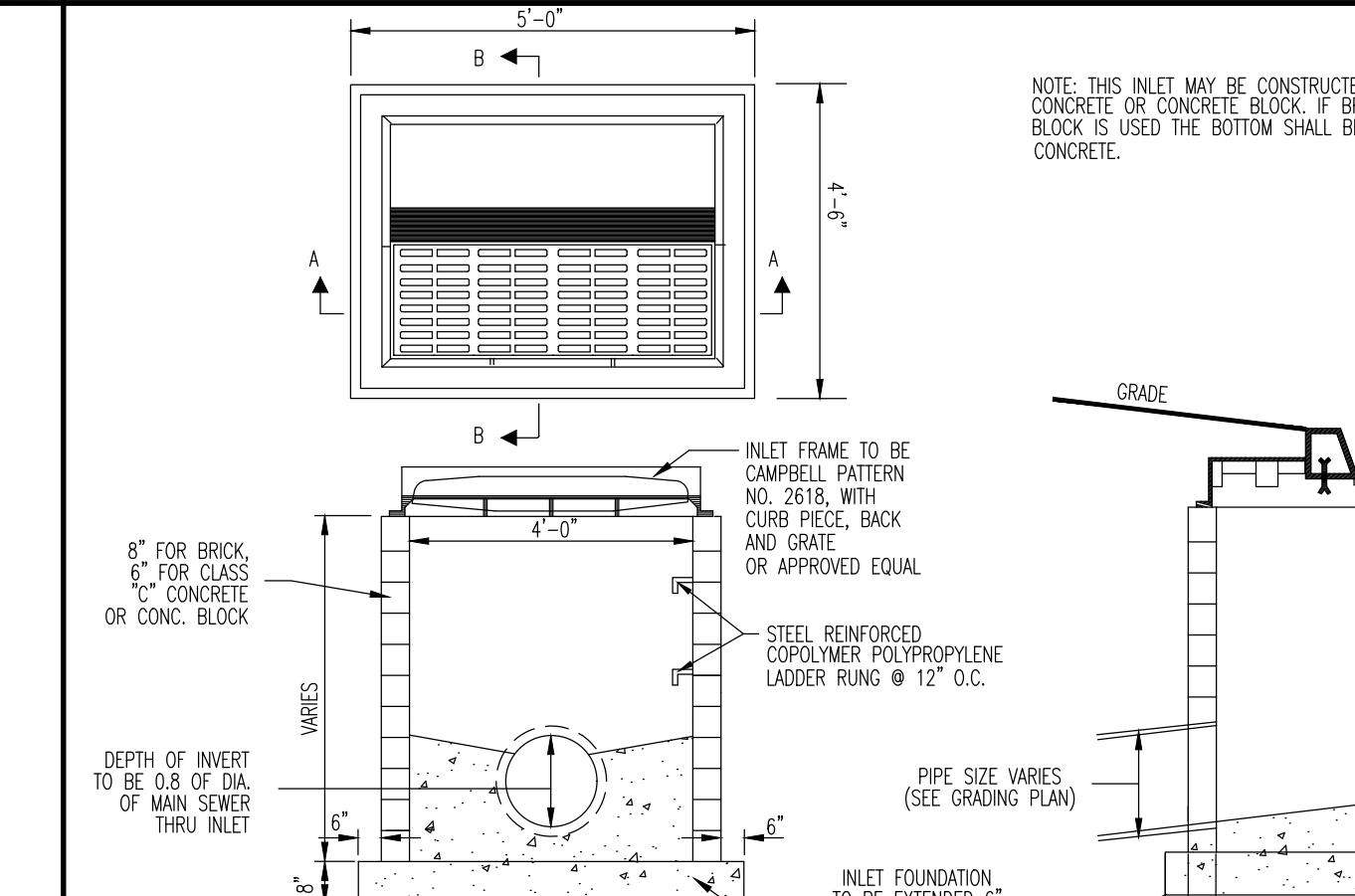
NOT TO SCALE



- NOTES:
- TWO SEPARATE COATS OF APPROVED BITUMASTIC WATERPROOFING COMPOUND SHALL BE APPLIED PER MANUFACTURERS INSTRUCTIONS TO THE ENTIRE EXTERIOR OF STRUCTURE
  - TWO SEPARATE COATS OF APPROVED TWO-PART EPOXY COATING SHALL BE APPLIED PER MANUFACTURERS INSTRUCTIONS TO THE ENTIRE INTERIOR OF STRUCTURE
  - MANHOLES TO 8' DEEP SHALL BE SINGLE WALL CONSTRUCTION (6") MANHOLES 8' TO 12' DEEP SHALL BE DOUBLE WALL CONSTRUCTION (12")

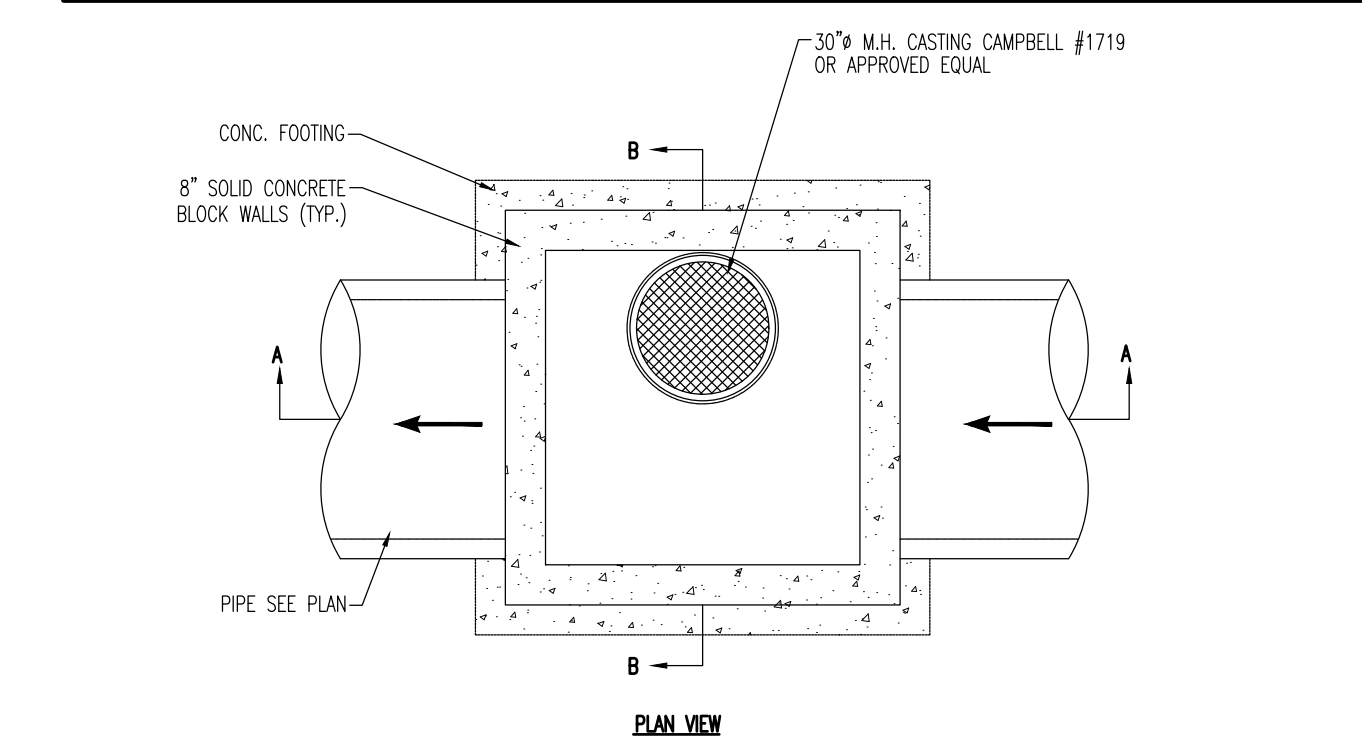
### DOGHOUSE MANHOLE DETAIL

NOT TO SCALE



### TYPE B INLET DETAIL

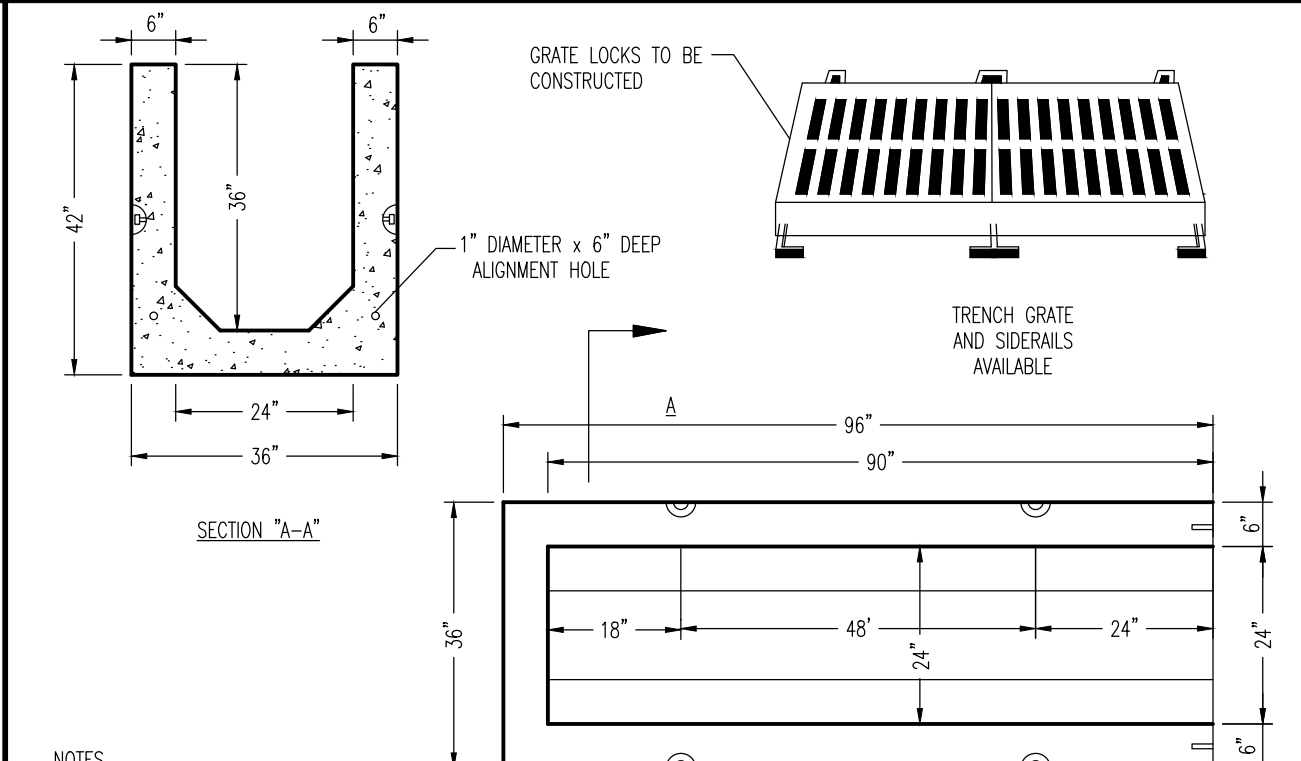
NOT TO SCALE



- NOTES:
- CONSTRUCTION SHALL BE 8" SOLID CONCRETE BLOCK WALL OR PRECAST CONCRETE.
  - ALL CONCRETE SHALL BE A MINIMUM 4000 PSI UNLESS NOTED OTHERWISE.

### 6' x 6' STORM SEWER MANHOLE DETAIL

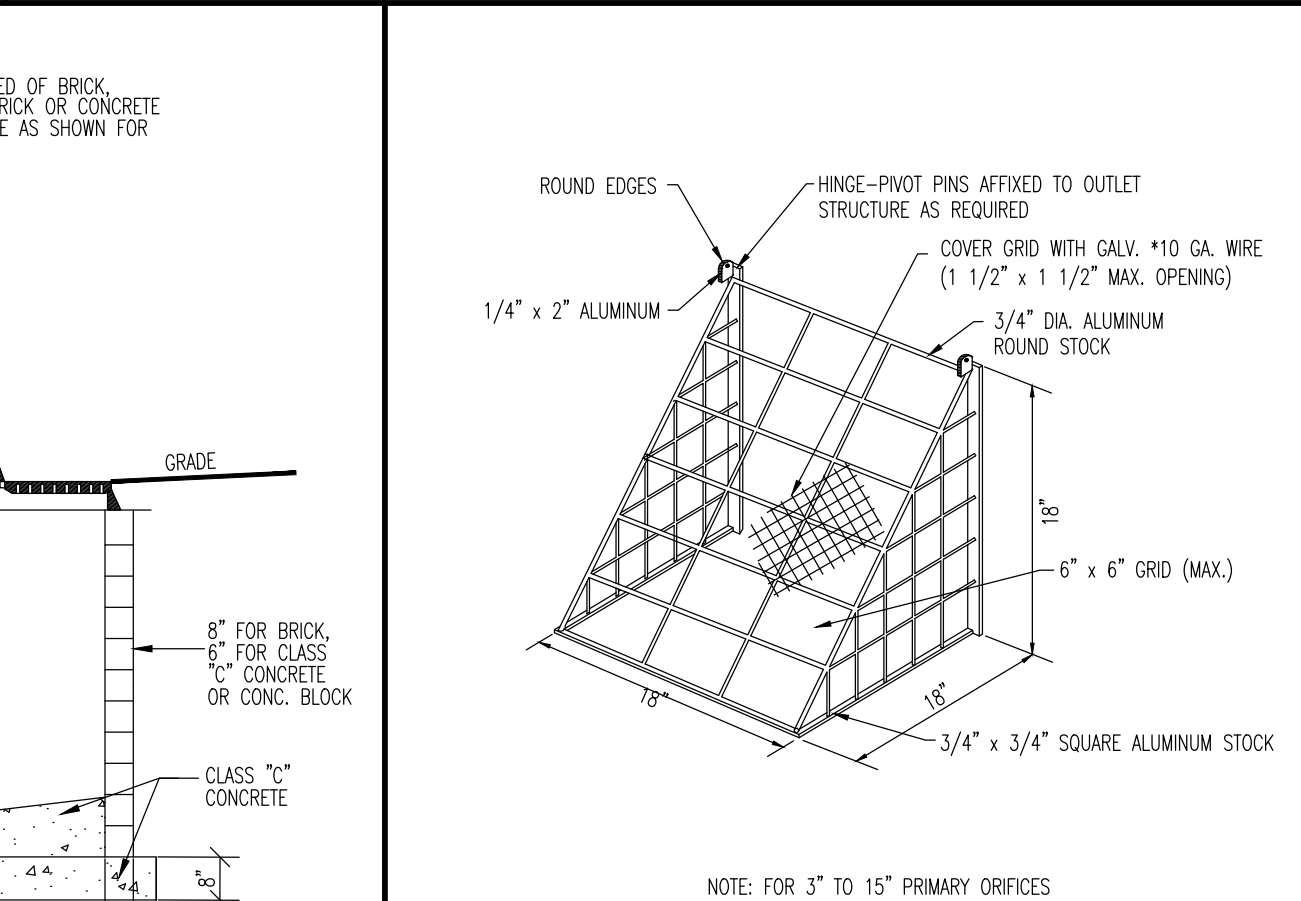
NOT TO SCALE



- NOTES:
- ANY ALTERATION TO THIS DRAWING MUST BE MADE TO CSP IN WRITING PRIOR TO PRODUCTION.
  - CONSTRUCTION PER ASTM C-913.

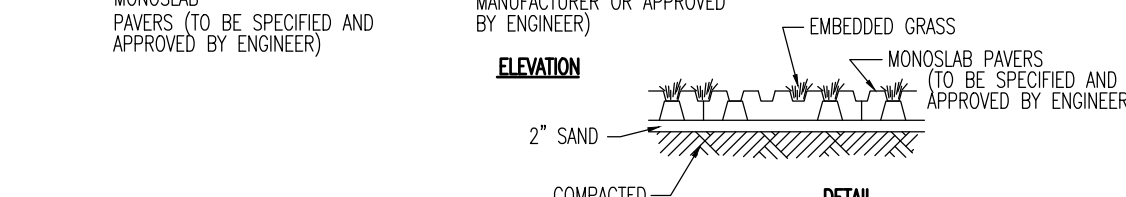
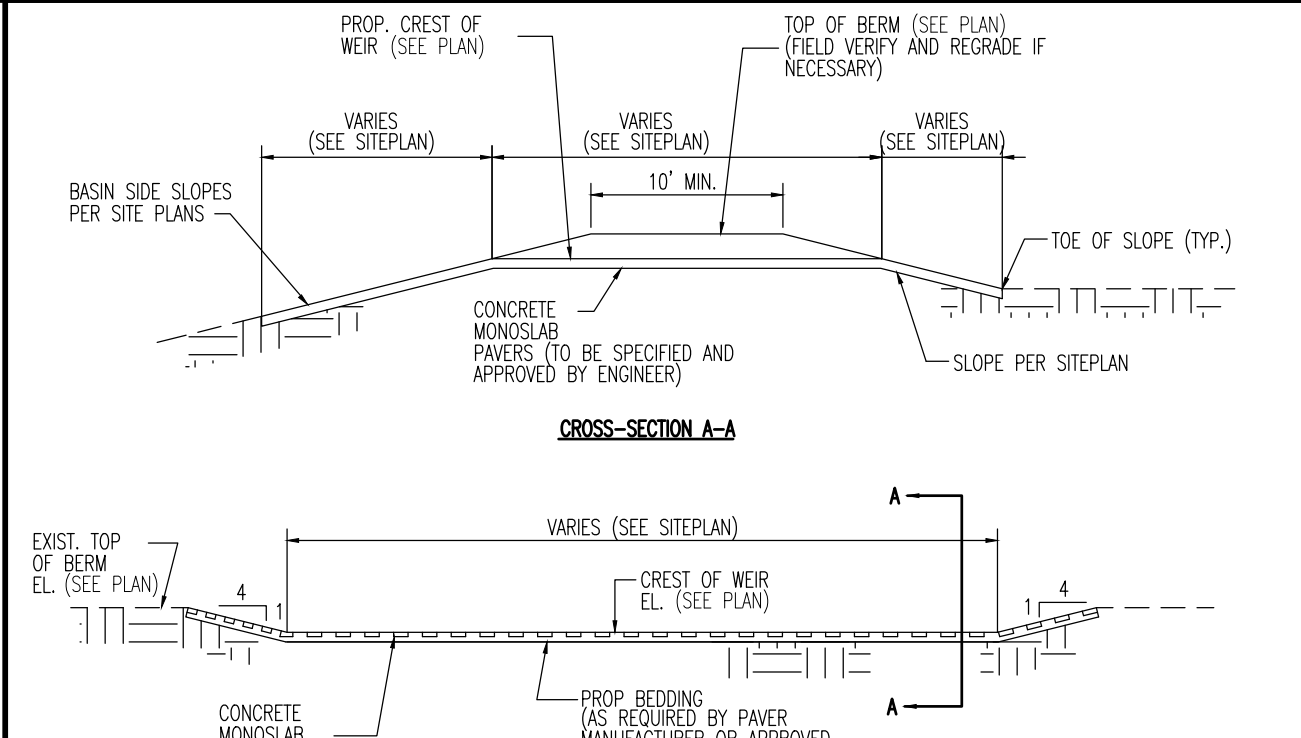
### TRENCH DRAIN DETAIL

NOT TO SCALE



### TRASH RACK DETAIL

NOT TO SCALE



### PAVER-BLOCK EMERGENCY SPILLWAY DETAIL

NOT TO SCALE

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Denver, Colorado 1: 303.920.8070

TITLE:

CONSTRUCTION DETAILS

PROJECT: **HSC BERLIN, LLC**  
**PROPOSED TRACTOR SUPPLY COMPANY**  
BLOCK 1604, LOTS 1, 2, 3, 4 & 5  
901 NUSH ROUTE 73 SOUTH  
TOWNSHIP OF BERLIN, CAMDEN COUNTY, NEW JERSEY

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