

TAX MAP SHEETS No's. 59 & 60  
SCALE: 1" = 300' ±

BUILDING SIGNAGE REQUIREMENTS (CH. 205-68.10.A.(1))  
FOR RESTAURANT TENANTS UNDER 25,000 S.F.

BUILDING DIMENSIONS: 79.42' L x 28.47' W x 18' H

SIGN TYPE	FORMULA	MAX. PERMITTED	PROPOSED
TYPE 'A' FASCIA WALL SIGN	1.5 S.F. PER LINEAL FT. OF TENANT FRONTAGE	75 S.F. FOR TENANT PRIMARY SIGNAGE	BELL LOGO WITH LETTERING ON TOWER, 2 SIDES 31.9 S.F. EA. (2 TOTAL), 20 S.F. LOGO AND LETTERING ON REAR WALL. BELL LOGO ONLY ABOVE ENTRANCE 13.5 S.F. (1 TOTAL).
TYPE 'B' MARQUEE CANOPY SIGN	3 S.F. PER LINEAL FT. OF MARQUEE OR CANOPY	0.75 S.F. PER LINEAL FT. FOR SECONDARY SIGNAGE	
TYPE 'C' FEATURE SIGN	1.5 S.F. PER LINEAL FT. OF TENANT FRONTAGE	75 S.F.	NONE
TYPE 'E1' AWNING SIGN PRIMARY ID	1.5 S.F. PER LINEAL FT. OF TENANT FRONTAGE	75 S.F.	NONE
TYPE 'D' PROJECTING BLADE	1 BLADE PER TENANT FRONTAGE	10 S.F.	NONE
TYPE 'E2' AWNING SIGN SECONDARY ID	UP TO 25% OF THE SURFACE AREA OF EACH AWNING	20 S.F./AWNING	NONE
TYPE 'F' PLAQUE OR MEDALLION	1 PER MAIN ENTRY	4 S.F.	NONE
TYPE 'G' WINDOW/DOOR SIGN	15% OF GLAZING AREA	10 S.F.	TO COMPLY
TYPE 'H' CHANGEABLE SIGN (POSTER DISPLAY)	-	60 S.F.	TO COMPLY
TYPE 'J' ADDITIONAL SIGNS (UMBRELLA GRAPHICS-IF PROPOSED)	1 PER UMBRELLA	1 PER TABLE	TO COMPLY

Total maximum allowable signage per tenant less than 25,000 square feet is not to exceed 1.5 square feet per lineal foot of tenant frontage for primary identification signage and 0.75 square foot per lineal foot of tenant frontage for secondary identification signage. Primary identification signage is not to exceed a total of 225 square feet. Secondary identification signage is not to exceed 100 square feet. Maximum letter/logo height is three feet unless otherwise approved. [1.5 S.F. PER LINEAL FT. ALONG BUILDING FRONTAGE IS 119.1 S.F. THEREFORE THE MAXIMUM PERMITTED IS 75 S.F. FOR THE SECONDARY FRONTAGE, 0.75 S.F. PER LINEAL FT. IS 21.4 S.F.]

Allowable sign types quantities:

Primary identification signage (A, B, C, E1). Tenants under 25,000 square feet in corner locations or with frontage on two principal streets or parking areas may be permitted to have a total of any three of the A, B or E1 sign types. [SIGNS ARE PROPOSED ON THREE SIDES OF THE BUILDING FOR A TOTAL OF FOUR LOCATIONS ON THE BUILDING.]

Secondary identification signage (D, E2, F, G, H). All tenants may be allowed to use a total of three of the D, E2, F, G, H sign types.

ZONING MAP

SCALE: 1" = 1,300' ±



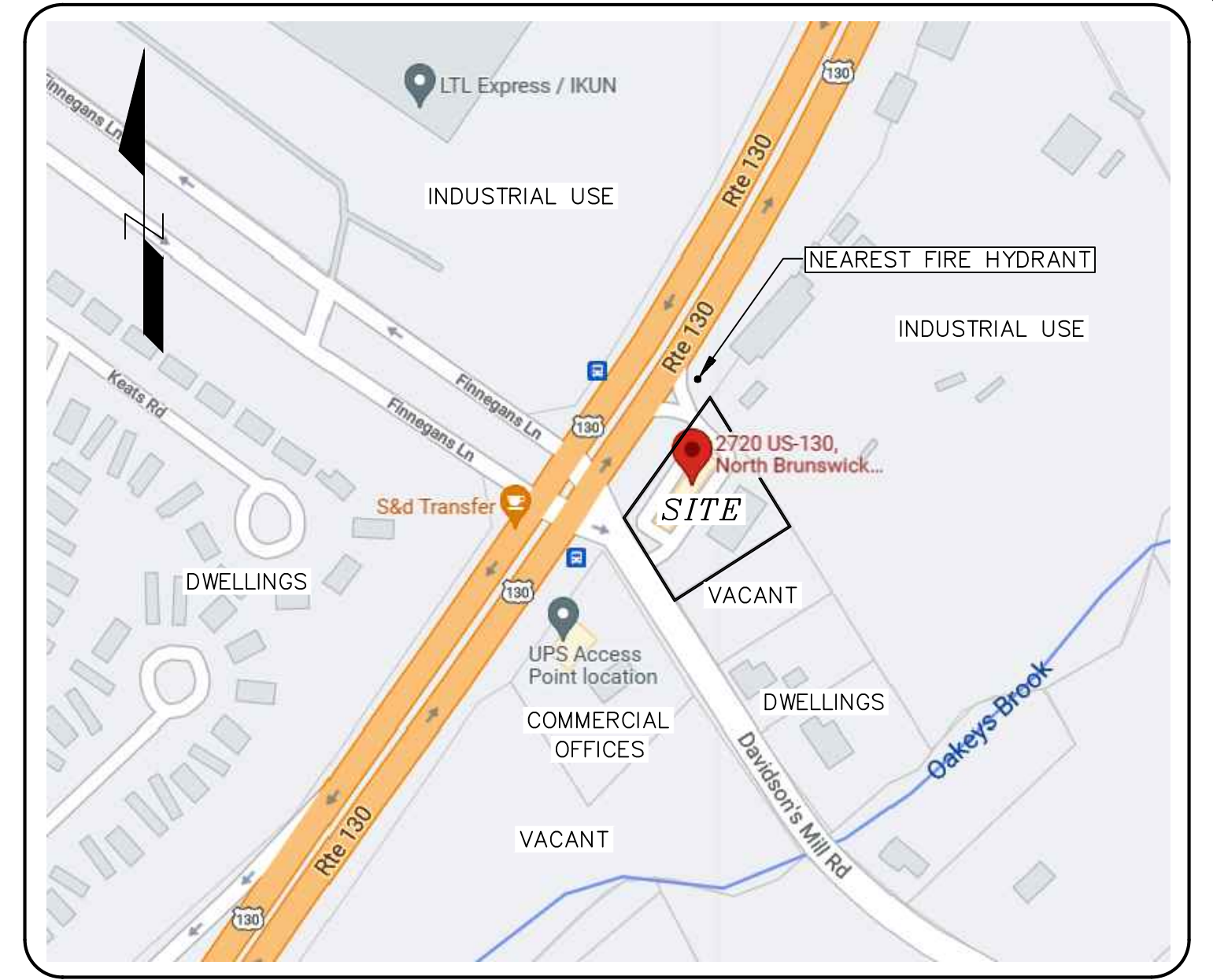
# PRELIMINARY & FINAL MAJOR SITE PLAN

## 2720 U.S. HIGHWAY 130

### BLOCK 224, LOT 1

## TOWNSHIP OF NORTH BRUNSWICK

## MIDDLESEX COUNTY, NEW JERSEY



KEY MAP

SCALE: 1" = 200' ±

C-4 NON-RESTRICTED COMMERCIAL DISTRICT ZONE  
DEVELOPMENT STANDARDS (CH. 205-68)

	REQUIRED	EXISTING	PROPOSED	VARIANCE REQ.
LOT REQUIREMENTS				
MINIMUM LOT AREA (CORNER)	30,000 S.F.	30,776 S.F.	30,776 S.F.	NO
MINIMUM LOT WIDTH (CORNER)	200 FT	200 FT	200 FT	NO
MINIMUM LOT DEPTH	100 FT	166.7 FT	166.7 FT	NO
BUILDING SETBACKS				
FRONT YARD (ROUTE 130)	75 FT	104.4 FT	82.90 FT	NO
FRONT YARD (DAVIDSON'S MILL ROAD)	60 FT	85.1 FT	61.00 FT	NO
SIDE YARD (ONE/BOTH)	10/20 FT	11.0/22.4 FT	35.00/75.16 FT	NO
REAR YARD	35 FT	N/A	N/A	-
BUILDING COVERAGE				
MAXIMUM PERMITTED	40%	9.5% (2,920 S.F.)	7.3% (2,246 S.F.)	NO
LOT COVERAGE				
MAXIMUM PERMITTED	80%	69.5% (21,380 S.F.)	72.0% (22,170 S.F.)	NO
HEIGHT LIMITATIONS				
MAX. BLDG. HEIGHT	40 FT 2 STORIES	15.5 FT 1 STORY	23.0 FT 1 STORY	NO
DRIVEWAYS				
MINIMUM WIDTH	25 FT	14.1/15.0 FT	14.1/15.0 FT	*
MAXIMUM WIDTH	35 FT	15.0 FT	15.0 FT	NO
SETBACK TO SIDE LINE	10 FT	22.3/43.2 FT	22.3/57.5 FT	NO
DISTANCE TO INTERSECTION	100 FT	94.8 FT	94.8 FT	*
NUMBER PERMITTED PER 150' FRONTAGE	1 DRIVEWAY	1 EXISTING	1 PROPOSED	NO
PARKING SETBACKS				
SETBACK TO RIGHT-OF-WAY	10 FT	3.4 FT +	10.0 FT	NO

THE PROPOSED USE IS A PERMITTED USE IN THE C-4 ZONE DISTRICT AS PER CH. 205-68.4.A.(2)  
\* EXISTING NON-CONFORMITY (TO REMAIN)  
+ EXISTING NON-CONFORMITY (TO BE REMOVED)  
NET INCREASE IN COVERAGE IS 790 S.F.

LOADING / UNLOADING NOTE

A PORTION OF THE LOT IS SITUATED WITHIN 300 FT OF A RESIDENTIAL USE (LOT 3). AS PER CHAPTER 205-68.G., THE APPLICATION IS NOT SUBJECT TO THE RESTRICTIONS NOTED SINCE THE UNLOADING WILL OCCUR IN A FRONT YARD AREA.

GENERAL NOTES

- SITE IS KNOWN AS BLOCK 224, LOT 1 AS DEPICTED ON SHEET 60 OF THE TOWNSHIP OF NORTH BRUNSWICK TAX MAPS. TOTAL LOT AREA IS 30,776 S.F. (0.7074 ACRES).
- OWNER: OCEAN PETROLEUM INC. c/o PETRO MKTN GRP. 2900 TELESTAR COURT FALLS CHURCH, VA 22042  
APPLICANT: KUM & CHILL NORTH BRUNSWICK TB LLC 163 WASHINGTON VALLEY ROAD, SUITE 104 WARREN, NJ 07059 TEL: (732) 230-7571
- OUTBOUND & TOPOGRAPHIC SURVEY INFORMATION OBTAINED FROM A PLAN ENTITLED "LOCATION & TOPOGRAPHIC SURVEY, 199 N.J.S.H. ROUTE 9, TAX BLOCK 18.01, LOT 1.03, TOWNSHIP OF MANALAPAN, MONMOUTH COUNTY, NEW JERSEY", PREPARED BY DAVID A. STIRES ASSOCIATES, LLC, DATED MARCH 30, 2020.
- HORIZONTAL CONTROL BASED ON NAD '83. VERTICAL DATUM BASED ON NAVD 1988
- THERE ARE NO FRESHWATER WETLANDS OR WETLANDS BUFFERS LOCATED ON THE SITE.
- THE SITE IS NOT LOCATED WITHIN A FEMA FLOOD HAZARD AREA.
- THE PROPERTY IS LOCATED WITHIN THE C-4 "NON-RESTRICTED COMMERCIAL DISTRICT ZONE".
- THE PROPERTY IS OCCUPIED BY AN EXISTING SERVICE STATION USE. SAID USE WILL BE REMOVED. THE APPLICANT PROPOSES TO CONSTRUCT A FREESTANDING FAST-FOOD RESTAURANT WITH DRIVE-THRU. THE HOURS OF OPERATION WILL BE DAILY 7:00 AM TO 11:00 PM (LOBBY) AND 7:00 AM TO 2:30 AM (DRIVE-THRU).
- DO NOT SCALE DRAWINGS WITH RESPECT TO THE LOCATION OF SURROUNDING EXISTING FEATURES, ADJACENT AND SURROUNDING PHYSICAL CONDITIONS, BUILDINGS, STRUCTURES, ETC., ARE SCHEMATIC ONLY EXCEPT WHERE DIMENSIONS ARE SHOWN THERE.
- THIS SET OF PLANS HAS BEEN PREPARED FOR THE APPLICANT NAMED HEREON FOR THE PURPOSE OF MUNICIPAL AND REGULATORY AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION PLANS UNTIL ALL REQUIRED APPROVALS HAVE BEEN OBTAINED. NO OTHER PURPOSE IS INTENDED OR IMPLIED.
- REFER TO ARCHITECTURAL PLANS PREPARED BY ZELTA DESIGN FOR INTERIOR AND EXTERIOR BUILDING CONSTRUCTION.
- CONSTRUCTION OF SITE IMPROVEMENTS AND BUILDINGS SHALL BE IN COMPLIANCE WITH THE APPLICABLE BUILDING CODES, FEDERAL AND STATE BARRIER FREE AND A.D.A. REQUIREMENTS, TOWNSHIP DESIGN STANDARDS & DETAILS, AND NOISE CODE.
- ALL TRAFFIC CONTROL SIGNS SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- SOLID WASTE PICKUP SHALL BE BY PRIVATE HAULER. THE APPLICANT SHALL BE RESPONSIBLE FOR RECYCLING AS PER N.J.S.A. 13:1E-99.11 ET SEQ.
- THE BUILDING SHALL BE SERVED BY PUBLIC WATER AND PUBLIC SEWER CONNECTIONS.
- THE CONTRACTOR SHALL NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF SITE CONDITIONS OR TOPOGRAPHY DIFFER MATERIALLY FROM THOSE PRESENTED HEREON. THE UNDERSIGNED PROFESSIONAL SHALL BE GRANTED ACCESS TO REVIEW SAID CONDITION, AND/OR RENDER THE DESIGN SHOWN HEREON TO THE APPROPRIATE MUNICIPAL, COUNTY OR STATE OFFICIAL'S AND/OR UNDERSIGNED PROFESSIONAL SATISFACTION.
- STRUCTURAL / GEOTECHNICAL ENGINEER TO PROVIDE PLANS AND CALCULATIONS FOR ALL STRUCTURES AND FOUNDATIONS AS SHOWN ON THIS PLAN. THIS PLAN DOES NOT INCLUDE BUILDING CALCULATIONS EITHER STRUCTURAL OR GEOTECHNICAL AND THE UNDERSIGNED ASSUMES NO RESPONSIBILITY FOR SAME.
- THE OWNER IS RESPONSIBLE FOR SITE SAFETY. THE OWNER, OR HIS REPRESENTATIVE, IS TO DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5:23-2.21(E) OF THE N.J. UNIFORM CONSTRUCTION CODE AND CFR 1926.52(F) (OSHA COMPETENT PERSON).
- UPON ISSUANCE OF CONSTRUCTION DOCUMENTS, IT IS EXPLICITLY UNDERSTOOD THAT THE ENGINEER IS NOT RESPONSIBLE FOR THE PROSECUTION OF THE WORK, THE MEANS AND METHODS OF CONSTRUCTION, PROTECTION OF ADJACENT STRUCTURES OR PROPERTY, AND IS NOT TO BE HELD RESPONSIBLE FOR ANY DAMAGE WHATSOEVER TO ANY PROPERTY, INCLUDING OFFSITE LANDS, ASSOCIATED WITH CONSTRUCTION OF THE PROJECT.
- THESE PLANS DEPICT VARIOUS IMPROVEMENTS TO BE LOCATED ON THE PROPERTY IN QUESTION. IT IS THE DEVELOPER'S RESPONSIBILITY TO ENSURE THAT SAID IMPROVEMENTS ARE STAKED OUT IN THE CORRECT LOCATIONS, BOTH HORIZONTALLY AND VERTICALLY, BY RETAINING A NEW JERSEY LICENSED LAND SURVEYOR. THE ENGINEER SHALL NOT BEAR ANY RESPONSIBILITY OR LIABILITY FOR THE CONSTRUCTION OF ANY PROPOSED IMPROVEMENTS, SPECIFICALLY IF BUILT IN LOCATIONS OTHER THAN THOSE DEPICTED, OR AT ELEVATIONS THAT DIFFER FROM THE PLAN.
- AT COMPLETION OF CONSTRUCTION, THE SITE CONTRACTOR SHALL SUBMIT AS-BUILT PLANS TO THE TOWNSHIP ENGINEER FOR REVIEW.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO CONSTRUCTION TO VERIFY THAT THE PLANS THEY HAVE ARE THE MOST CURRENT PLANS.

PARKING REQUIREMENTS (CH. 205-68.9.)

REQUIREMENT: TEN (10) SPACES PER 1,000 S.F.

PROPOSED G.S.F.: 2,246 S.F.

REQUIRED PARKING: 22.4 SPACES

PROPOSED PARKING: 22 STANDARD SPACES

NOTE: AS PER CHAPTER 205-32, EACH EVCS SPACE SHALL COUNT AS TWO REQUIRED PARKING SPACES FOR THE PURPOSES OF ZONING COMPLIANCE.

NUMBER OF EVCS SPACES PROPOSED: 2 SPACES  
EQUIVALENT PARKING: 4 SPACES

TOTAL PROPOSED PARKING: 22 + 4 = 26 SPACES

UTILITY NOTES

- EXISTING UTILITY INFORMATION IS BASED ON INFORMATION OF RECORD AND HAS BEEN GATHERED FROM NUMEROUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION AND REQUEST A MARKOUT BY CONTACTING N.J. ONE-CALL AT (800) 272-1000. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.
- ALL PROPOSED UTILITIES SHALL BE INSTALLED UNDERGROUND.

PROPERTY OWNERS WITHIN 200 FT



North Brunswick Township  
Planning Office Unit

Target Parcel(s): Block 224, Lot 1  
OCEAN PETROLEUM INC./PETRO MKTN GRP  
2720 ROUTE 130

7. PROVIDE THE ADDRESS AND DATE OF THIS CALCULATION

Block 224, Lot 1  
COUNTY OF MIDDLESEX  
MIDDLESEX COUNTY PLANNING BOARD  
NEW BRUNSWICK, NEW JERSEY  
RE: 2720 ROUTE 130

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LIST OF UTILITY COMPANIES

Middlesex County Planning Board  
County Administration Building  
55 First  
25 Bayard Street  
New Brunswick, NJ 08901

Public Service Electric & Gas Co.  
Manager - Corporate Properties  
80 Park Place, 1100  
Newark, NJ 07102

Collection of Raritan Valley  
275 Central Avenue  
Clark, NJ 07066

State of New Jersey  
Department of Transportation  
1015 Parkway  
Trenton, NJ 08646

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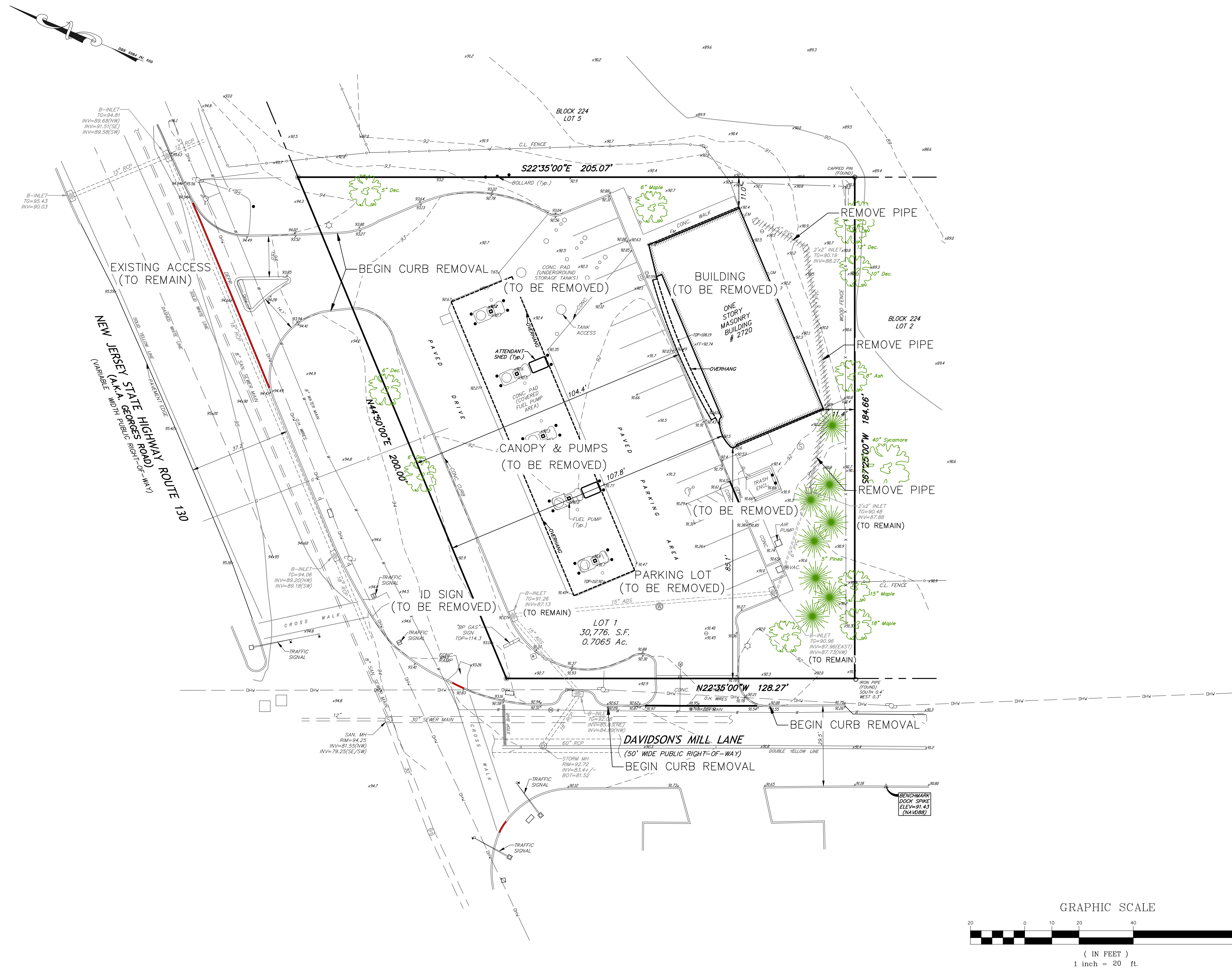
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1	03-14-22	REVISED ZONING TABLE, PARKING CALCULATIONS
NO.	DATE	DESCRIPTION
<b>PRELIMINARY &amp; FINAL MAJOR SITE PLAN</b> <b>2720 U.S. HIGHWAY 130</b> <b>COVER SHEET</b> <b>BLOCK 224, LOT 1</b> <b>TAX MAP SHEET NO. 60</b>		
TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY, NEW JERSEY		
 <b>EAST POINT</b> <b>ENGINEERING, LLC</b> NEW JERSEY CERTIFICATE OF AUTHORIZATION NO. 246A2B169800		
11 South Main Street Marlboro, NJ 07746 Tel: 732.577.0180		
DATE: 01-24-22		PROJECT NUMBER: 21-422
SCALE: N/A		CHECKED BY: BNP
01-24-22		
MARD S. LEBER N.J. PROFESSIONAL ENGINEER, LICENSE NO. 24604452400 N.J. PROFESSIONAL PLANNER, LICENSE NO. 38100598600		



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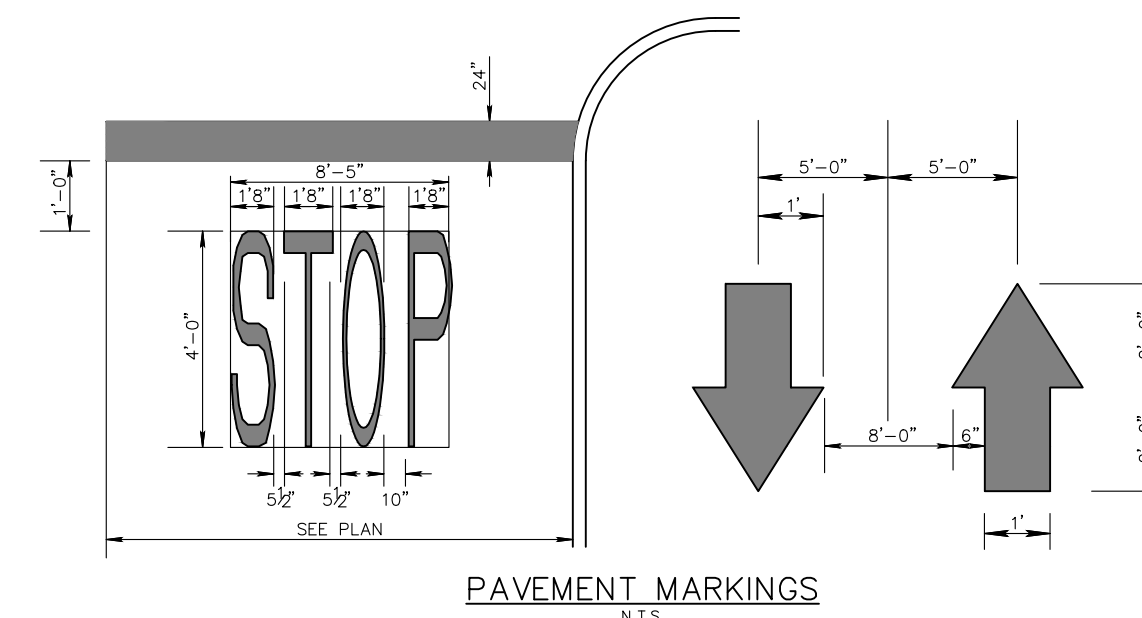
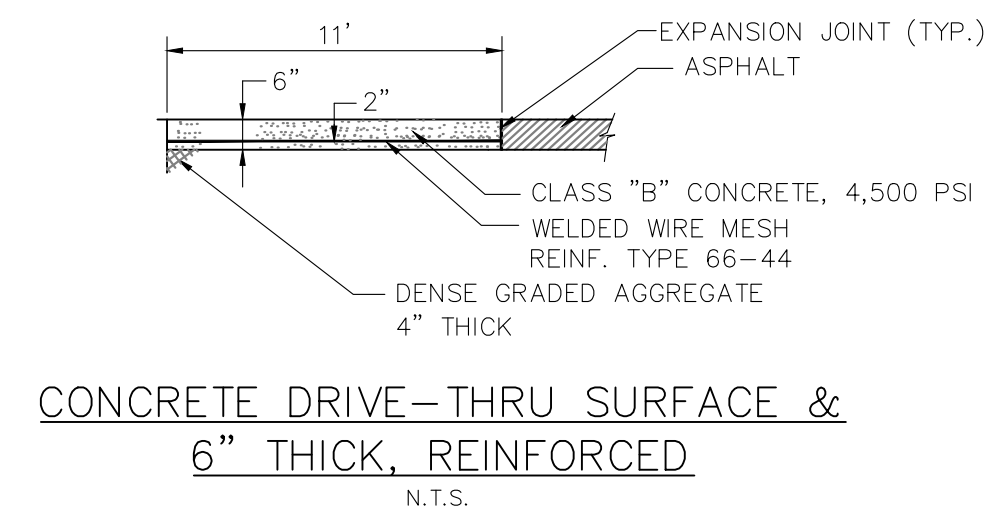
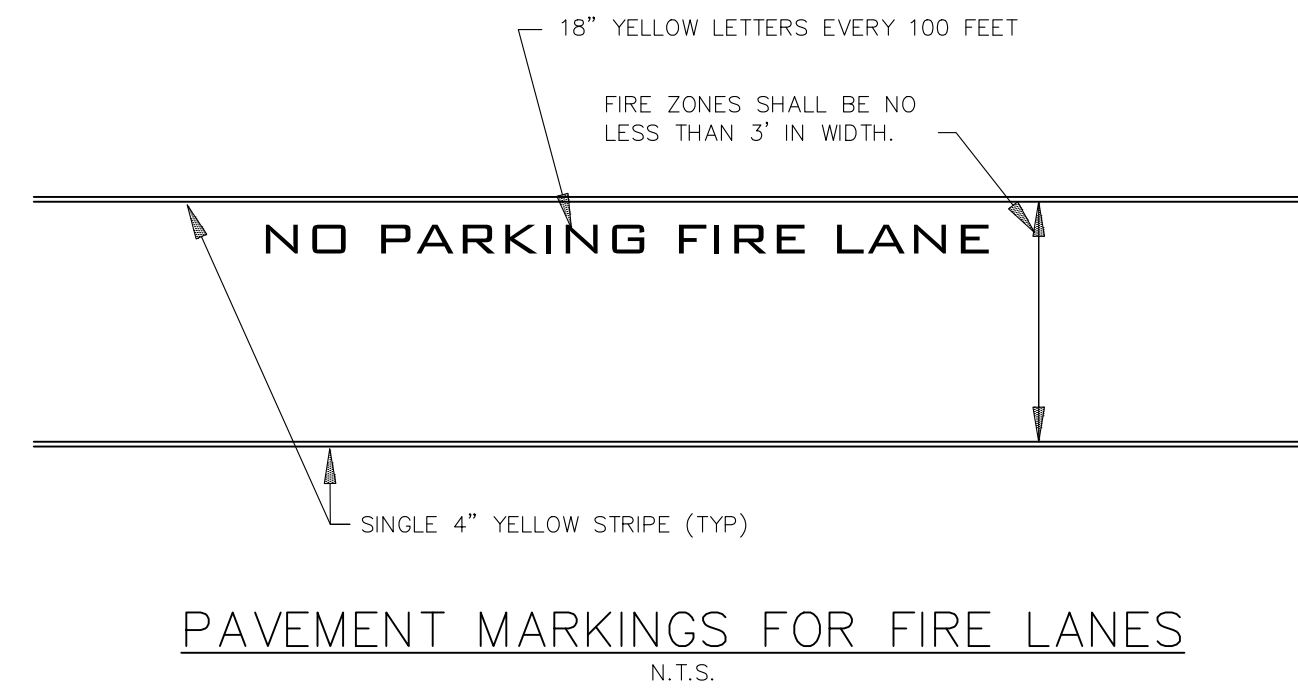


#### DEMOLITION NOTES

1. CLEARING SITE SHALL INCLUDE, BUT IS NOT LIMITED TO, THE REMOVAL OF ALL INDICATED STRUCTURES, FOUNDATIONS, DEBRIS, RUBBLE, FENCES, TREES, STUMPS, EXISTING UTILITIES, UNSUITABLE MATERIALS, PAVEMENT, CONCRETE, AND SIGNAGE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL MATERIALS EXCAVATED OF WHATEVER NATURE AT HIS OWN EXPENSE. THE MUNICIPALITY IS NOT RESPONSIBLE FOR PROVIDING A DISPOSAL SITE. MATERIALS MUST BE DISPOSED OF IN ACCORDANCE WITH N.J.D.E.P. AND LOCAL REGULATIONS.
3. EXISTING ONSITE SUITABLE SOIL SHALL BE EXCAVATED, TRANSPORTED, SPREAD, GRADED, AND COMPACTED AS INDICATED BY THE PROPOSED GRADES. ALL EARTHWORK OPERATIONS INVOLVING ONSITE SOILS SHALL BE COMPLETED PRIOR TO IMPORTING ANY OFFSITE MATERIALS.
4. ANY UNSUITABLE MATERIAL FOUND ON SITE DURING DEMOLITION SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH N.J.D.E.P. AND LOCAL REGULATIONS.
5. NO TOPSOIL IS TO BE REMOVED FROM THE PROJECT SITE.
6. PRIOR TO COMMENCING DEMOLITION, THE CONTRACTOR SHALL SECURE THE APPROPRIATE PERMITS FROM THE MUNICIPALITY. IN ORDER TO APPLY FOR A DEMOLITION PERMIT, UTILITY DISCONNECTS MUST BE COORDINATED WITH THE UTILITY COMPANIES INDICATED ON THE COVER SHEET. CONFIRMATION OF THE DISCONNECTS SHALL BE PROVIDED TO THE BUILDING DEPARTMENT.
7. IF APPROVED BY THE MUNICIPAL ENGINEER, EXISTING CONCRETE MAY BE STORED ON SITE AND RECYCLED FOR USE AS COMPACTED FILL MATERIAL.
8. ALL SOIL EROSION & SEDIMENT CONTROL DEVICES MUST BE IN PLACE AND NOTICE PROVIDED TO THE SOIL CONSERVATION DISTRICT 72 HOURS PRIOR TO COMMENCING WORK.
9. A UTILITY MARKOUT MUST BE OBTAINED PRIOR TO DEMOLITION BY CONTACTING NEW JERSEY ONE-CALL AT 800-272-1000.
10. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND THE EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. A PRE-CONSTRUCTION MEETING SHALL BE HELD NO LESS THAN 48 HOURS PRIOR TO WORK COMMENCING AND ALL UTILITY COMPANIES SHALL BE NOTIFIED.
11. DUMPSTERS USED FOR THE STORAGE OF CONSTRUCTION DEBRIS ARE NOT TO BE LEFT UNCOVERED OVERNIGHT.

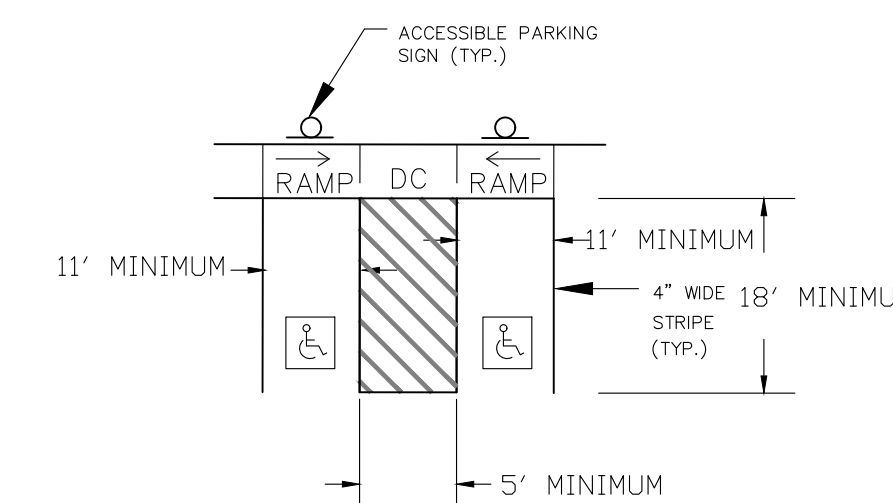
NO.		DATE		DESCRIPTION	
PRELIMINARY & FINAL MAJOR SITE PLAN					
2720 U.S. HIGHWAY 130					
EXISTING CONDITIONS PLAN					
BLOCK 224, LOT 1					
TAX MAP SHEET NO. 60					
TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY, NEW JERSEY					
		<b>EAST POINT</b>		11 South Main Street Marlboro, NJ 07746 Tel: 732.577.0180	
MARTIN S. LEBER		NEW JERSEY CERTIFICATE OF AUTHORIZATION NO. 246A28169800		DATE: 01-24-22	
N.J. PROFESSIONAL ENGINEER, LICENSE NO. 246044548400		N.J. PROFESSIONAL PLANNER, LICENSE NO. 33100598900		PROJECT NUMBER: 21-4722	
SCALE: 1" = 20'		DATE: 01-24-22		CHECKED BY: BNP	
SHEET NO. 2 OF 15					



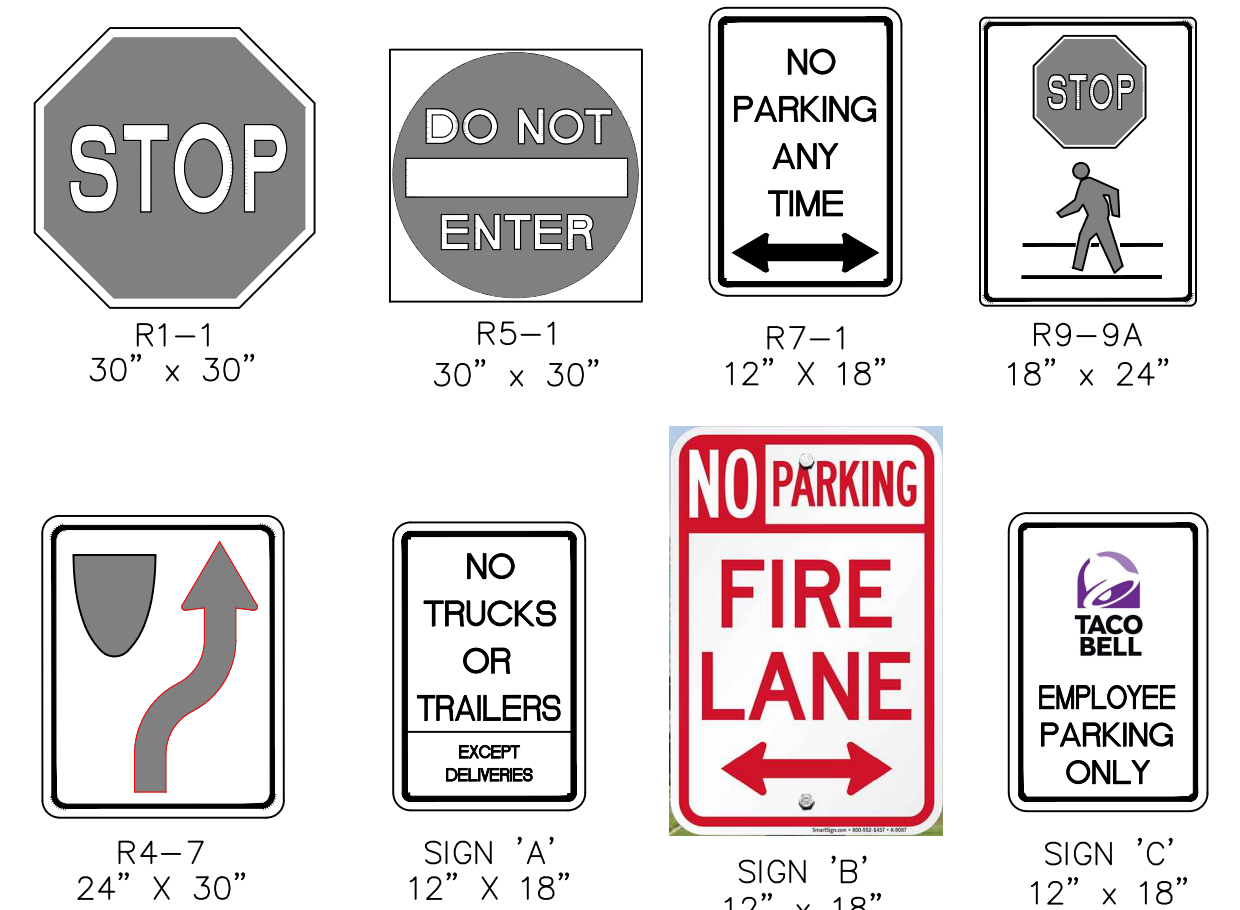


#### SITE IMPROVEMENT NOTES

- ALL SIGNS, STRIPING, AND DEVICES FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (M.U.T.C.D.), LATEST EDITION.
- ALL JOINTS WITH EXISTING PAVED AREAS/ROADS SHALL BE CONSTRUCTED WITH A NEAT SAWCUT AND KEYWAY. JOINTS WITH EXISTING CONCRETE SHALL BE SAWCUT AND A BITUMINOUS MATERIAL PROVIDED AS AN EXPANSION JOINT FILLER.
- ALL PARKING STALLS TO BE 9' x 18' UNLESS OTHERWISE NOTED ON THE PLANS.
- SIDEWALKS, APRONS, RAMPS, AND CURBS TO BE CONSTRUCTED OF N.J.D.O.T. CLASS 'C', 4,500 PSI CONCRETE OR AS INDICATED IN THE CONSTRUCTION DETAILS.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE MUNICIPAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK.
- DEPRESSED CURBS AT ALL CURB RAMPS SHALL BE CONSTRUCTED OUT OF CONCRETE AND INCLUDE A DETECTABLE WARNING SURFACE.
- A KNOX BOX SHALL BE PROVIDED AT THE BUILDING ENTRANCE FOR FIRE DEPARTMENT ACCESS.
- THE SPEAKER SYSTEM FOR THE DRIVE-THRU SHALL BE A HIGH DEFINITION TYPE WITH AUTOMATIC VOLUME CONTROL. AN AUTOMATIC VOLUME CONTROL SYSTEM SELF-ADJUSTS THE SOUND BASED ON AMBIENT BACKGROUND NOISE.
- REFER TO ARCHITECTURAL PLANS PREPARED BY ZELTA DESIGN FOR BUILDING CONSTRUCTION INFORMATION.
- ALL ROOFTOP EQUIPMENT SHALL BE SCREENED FROM VIEW AND THE SCREEN SHALL LIMIT NOISE FROM BEING DIRECTED TOWARDS ADJOINING PROPERTIES.
- ALL CURB RADII ARE MEASURED TO THE FACE OF CURB.
- ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH THE TOWNSHIP DESIGN STANDARDS AND DETAILS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE AS-BUILT DRAWINGS TO THE PLANNING BOARD ENGINEER UPON COMPLETION OF THE WORK.

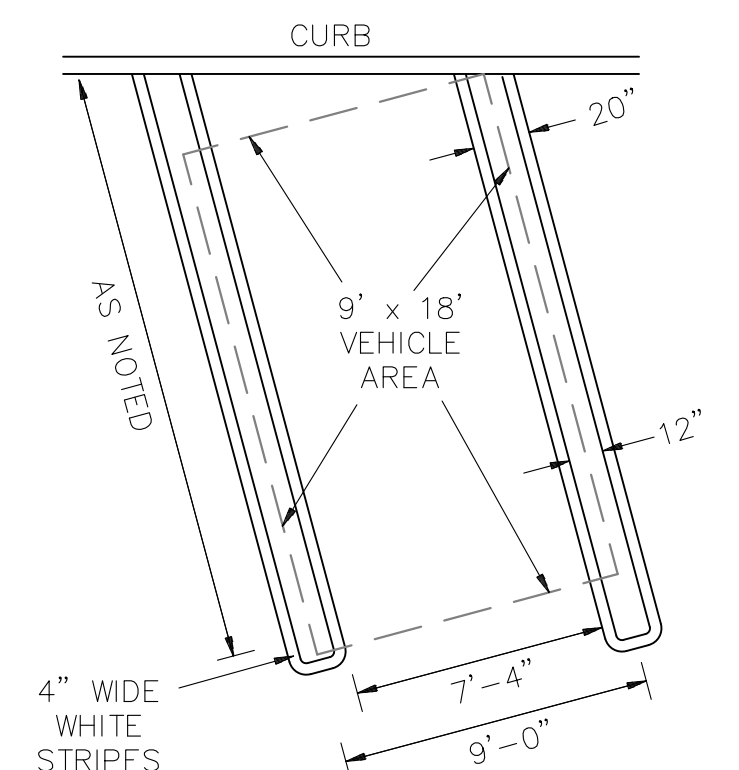
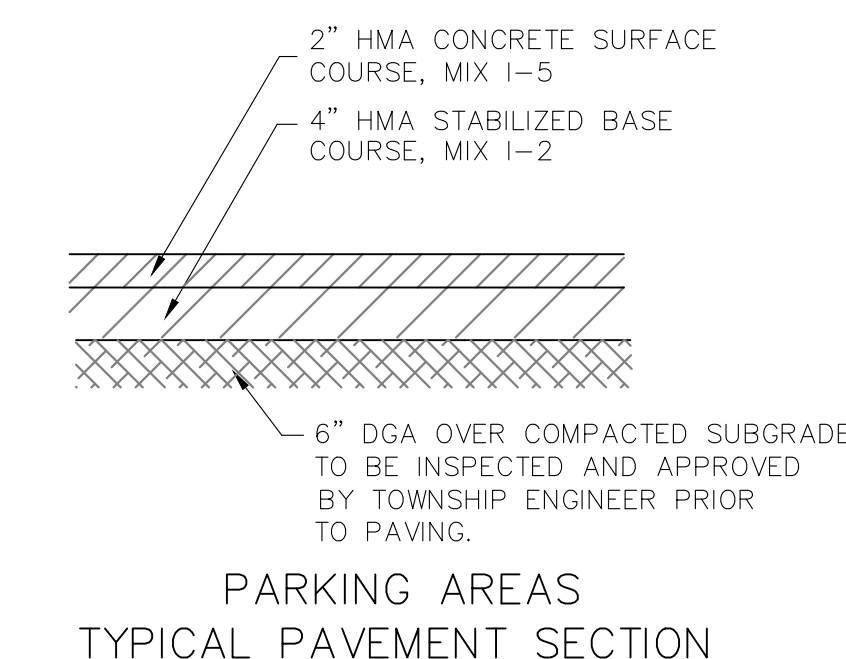


- NOTES:
- ALL STALLS SHALL BE A MINIMUM OF 11' x 18'.
  - SPACES DESIGNATED AS BEING "VAN ACCESSIBLE" SHALL BE ADJACENT TO ACCESS AISLES WITH A MIN. WIDTH OF 8 FEET.
  - PROPOSED STRIPING SHALL BE BLUE IN COLOR.
  - STRIPING SHALL BE LONG-LIFE EPOXY RESIN OR THERMOPLASTIC.

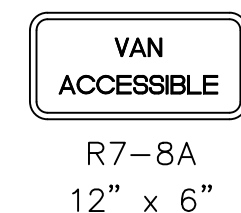
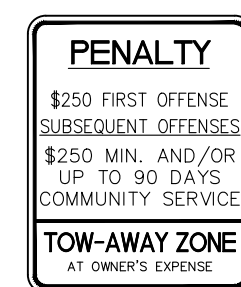
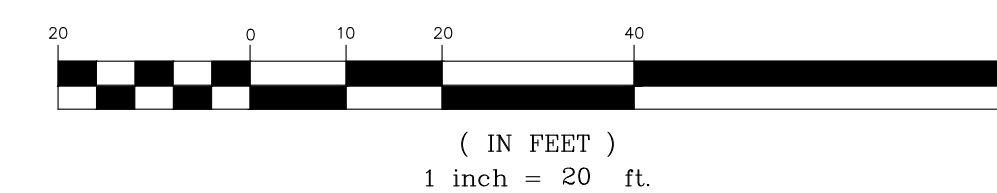


#### TRAFFIC SIGNAGE

N.T.S.



#### GRAPHIC SCALE

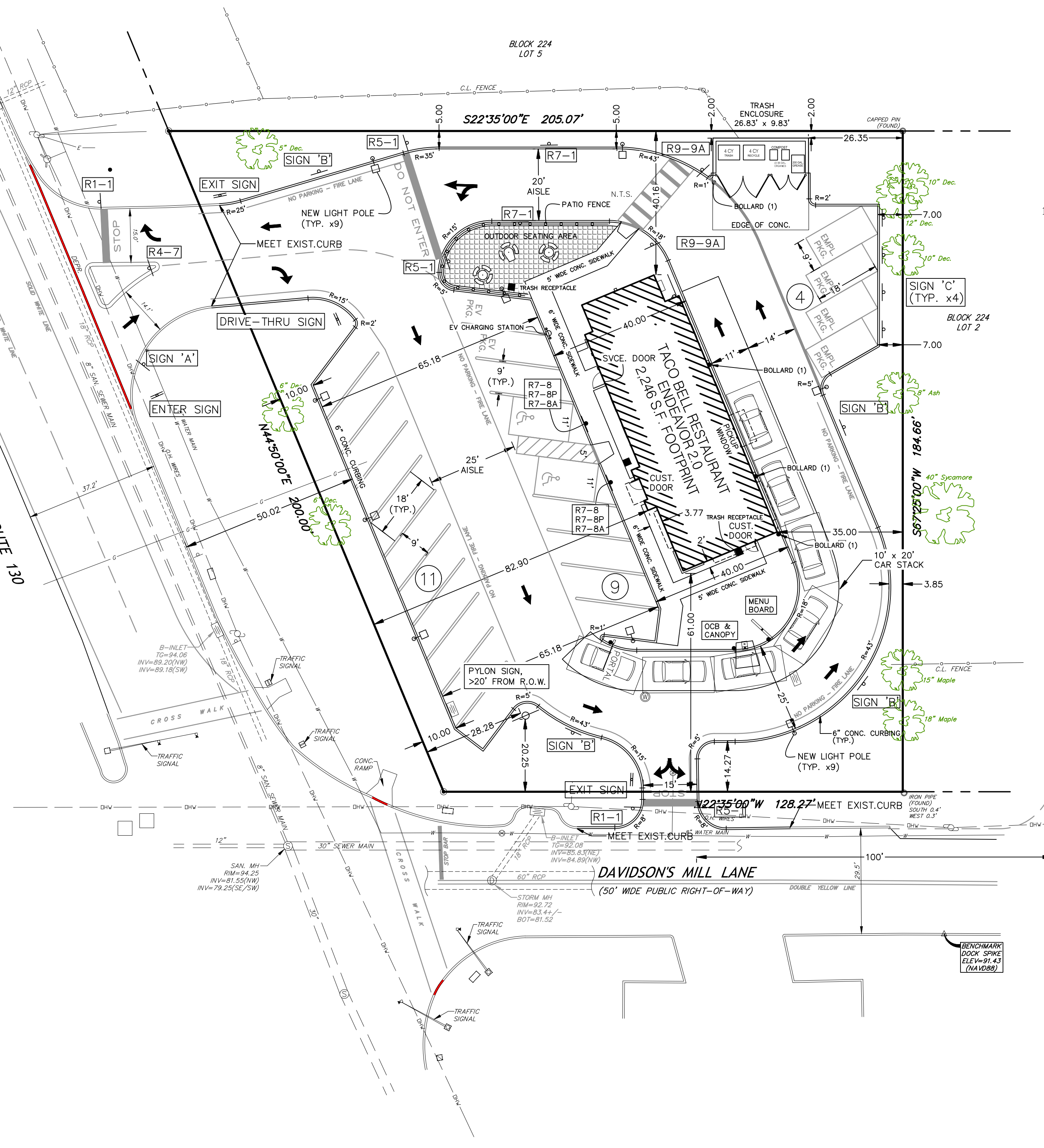


#### A.D.A. SIGNAGE

N.T.S.

#### PAVEMENT MARKING LEGEND

- UNLESS OTHERWISE SHOWN, PAVEMENT MARKINGS SHOULD CONFORM TO THE FOLLOWING:
- CENTER LINE - DBL. 4" WIDE SOLID YELLOW LINES, DAPPED AT INTERSECTIONS ONLY
- EDGE LINE - 4" WIDE SOLID WHITE LINE, DAPPED AT INTERSECTIONS ONLY
- STOP BAR - 24" WIDE SOLID WHITE LINE
- PARKING STALL LINES - 4" WIDE SOLID WHITE LINE
- HANDICAP STALL LINES - 4" WIDE SOLID BLUE LINE
- HANDICAP HATCH LINES - SPACED 3' O.C. ANGLED 45° TO PARKING DIRECTION
- NO PARKING HATCH LINES - 4" WIDE SOLID YELLOW LINE - SPACED 3' O.C. - ANGLED 45° TO PARKING DIRECTION
- NOTES:
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
  - ALL CONFLICTING SIGNS, TREES AND OTHER OBSTRUCTIONS SHALL BE REMOVED AS PART OF THIS CONSTRUCTION.
  - ALL STRIPING TO BE REMOVED SHALL BE GROUND OFF WITHOUT DAMAGE TO THE PAVEMENT STRUCTURE.
  - UNLESS OTHERWISE NOTED, ALL STRIPING SHALL BE LONG-LIFE EPOXY RESIN OR THERMOPLASTIC.



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NO.		DATE		DESCRIPTION	
PRELIMINARY & FINAL MAJOR SITE PLAN					
2720 U.S. HIGHWAY 130					
SITE LAYOUT PLAN					
BLOCK 224, LOT 1					
TAX MAP SHEET NO. 60					
TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY, NEW JERSEY					
		<b>EAST POINT</b> ENGINEERING, LLC NEW JERSEY CERTIFICATE OF AUTHORIZATION NO. 246A28169800		11 South Main Street Marlboro, NJ 07746 Tel: 732.577.0180	
		DATE: 01-24-22 SCALE: 1" = 20' PROJECT NUMBER: 21-472 CHECKED BY: BNP SHEET NO. 3 OF 15		DATE: 01-24-22 DATE: 01-24-22	



1. THE EXACT LOCATION OF THE PROPOSED GAS CONNECTION SHALL BE COORDINATED WITH PSE&G.

1. THE MINIMUM SIZE OF THE WATER SERVICE SHALL BE 1-1/2".
2. IF APPLICABLE, AN EASEMENT MAY BE DEDICATED TO THE WATER COMPANY FOR THE WATER LINE ON THE PROPERTY.
3. THE OWNER OF THE PROPERTY IS RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF ALL WATER LINE HYDANTS, AND VALVES ON THE PROPERTY EXCEPT FOR THE TOWNSHIP WATER MAIN.
4. IF THE WATER SERVICE VALVE BOX IS IN THE GRASS AREA THEN A 12-INCH SQUARE CONCRETE PAD MUST BE PROVIDED FOR PROTECTION. IF A WATER CURB BOX IS LOCATED IN A DRIVEWAY OR SIDEWALK, THEN THE SIDEWALK SHALL BE REPAIRED AND SHALL BE INSTALLED TO PROTECT IT FROM VEHICLE AND PLOW DAMAGE.
5. THE EXISTING WATER SERVICE SHALL BE REMOVED TO THE SATISFACTION OF THE TOWNSHIP UTILITY DEPARTMENT AND TOWNSHIP ENGINEER.

1. ALL AREAS TO BE CLEARED SHALL HAVE THE LIMITS STAKED PRIOR TO CLEARING. ALL ITEMS REMOVED SHALL BE RECYCLED AND/OR DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
2. THE LIMIT OF DISTURBANCE IS DEPICTED ON THE SOIL EROSION & SEDIMENT CONTROL PLANS AND SHALL NOT BE EXCEEDED. THIS SPECIFICALLY INCLUDES STRICT ADHERENCE TO GRADING ALONG NEIGHBORING PROPERTY LINES.
3. PRIOR TO THE START OF ANY CONSTRUCTION, CLEARING AND/OR DEMOLITION WORK, ALL TREES TO BE SAVED SHALL BE LOCATED AND TAGGED IN THE FIELD AND ORANGE CONSTRUCTION FENCE SHALL BE INSTALLED AROUND THE DRIP LIP OF ALL TREES OR GROUPS OF TREES TO BE SAVED.
4. MINIMUM SLOPE ON PAVED AREAS SHALL BE NO LESS THAN 0.50%.
5. MINIMUM SLOPE IN LAWN AREAS SHALL BE 2%. MAXIMUM SLOPE IN LAWN AREAS SHALL BE 3%:1V.
6. A NEW JERSEY LICENSED LAND SURVEYOR SHALL PROVIDE GRADE STAKES TO ENSURE THAT FINAL ELEVATIONS ADHERE TO THE PLAN.
7. SOIL EROSION & SEDIMENT CONTROL PLANS ARE INCORPORATED INTO THIS DRAWING SET AND SHALL BE REFERENCED FOR SOIL STABILIZATION MEASURES AND DUST AND SEDIMENT CONTROL.
8. THE APPLICANT IS REQUIRED TO OBTAIN A SOIL REMOVAL PERMIT PRIOR TO THE START OF CONSTRUCTION IF ANY SOIL WILL BE REMOVED OR IMPORTED.
9. PRIOR TO REMOVAL OF ANY TREES, THE APPLICANT WILL BE REQUIRED TO SECURE A TREE REMOVAL PERMIT FROM THE TOWNSHIP DEPARTMENT OF PLANNING AND ENGINEERING.
10. NO TOPSOIL IS TO BE REMOVED FROM THE SITE.
11. ALL CLEANOUTS SHALL BE CUT DOWN TO FINISHED GRADE.

1. A KNOX BOX SHALL BE INSTALLED NEAR THE MAIN ENTRANCE TO THE BUILDING
2. BUILDING IS NOT SPRINKLERED.

1. PSE&G SHALL PROVIDE POLE MOUNTED TRANSFORMERS TO PROVIDE 3-PHASE SERVICE TO THE BUILDING.
2. FROM THE POLE, ALL WIRING SHALL BE INSTALLED UNDERGROUND.
3. IF APPLICABLE, PSE&G MAY REQUIRE AN EASEMENT TO ACCESS THEIR EQUIPMENT ON THE PROPERTY.

1. ALL PROPOSED RAMPS AND DEPRESSED CURBS SHALL BE FORMED IN THE FIELD AND CHECKED PRIOR TO POURING. RAMPS SHALL NOT EXCEED 12:1 (8.3%) RUNNING SLOPE AND CROSS SLOPES SHALL NOT EXCEED 1:50 (2%).
2. TURNING SPACES COMPLYING WITH ADA SHALL BE PROVIDED AT ALL RAMPS.
3. DETECTABLE WARNING SURFACES SHALL BE PROVIDED AT EACH RAMP.

1. EXISTING UTILITY INFORMATION IS BASED ON INFORMATION OF RECORD AND HAS BEEN GATHERED FROM NUMEROUS SOURCES AND IS NOT GUARANTEED. FOR CLARIFICATION OF RECORD UTILITIES, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION AND REQUEST A MARKOUT BY CONTACTING N.J. ONE-CALL AT (800) 272-1000. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.
2. ALL PROPOSED UTILITIES SHALL BE INSTALLED UNDERGROUND.
3. A ROAD OPENING PERMIT MAY BE REQUIRED TO CONNECT CERTAIN UTILITIES TO OFF-SITE FACILITIES. THE CONTRACTOR SHALL OBTAIN THIS PERMIT BY CONTACTING THE MUNICIPAL OR COUNTY ROAD DEPARTMENT.
4. ALL TRENCHES SHALL BE BACKFILLED WITHOUT DELAY. OPEN TRENCHES SHALL BE KEPT TO A MINIMUM AND PROTECTED AND/OR COVERED WITH STEEL PLATES WHEN WORK IS NOT IN PROGRESS.
5. ELECTRIC, TELEPHONE, AND CATV SERVICE LAYOUT MUST BE COORDINATED WITH THE RESPECTIVE UTILITIES. THE LOCATIONS OF TRENCHES, TRANSFORMERS, PEDESTALS, AND DROP CONNECTIONS WILL BE FINALIZED UPON APPLICATION FOR NEW SERVICE.
6. UNDERGROUND ELECTRIC SHALL INCLUDE PROVISIONS FOR PARKING LOT LIGHTING. A LIGHTING PLAN IS INCLUDED (SHEET 6).

1. THE LOCATION OF EXISTING SEWER LINES DEPICTED HEREON WERE OBTAINED FROM VARIOUS SOURCES. PRIOR TO CONSTRUCTION OF SANITARY SEWER FACILITIES, THE SIZE, LOCATION, AND CONDITION OF THE EXISTING SERVICE LINES MUST BE VERIFIED IN THE FIELD BY EXCAVATION AND INSPECTION.
2. ALL EXISTING WATER & SEWER SERVICE LATERALS SHALL BE DISCONNECTED AND ABANDONED AS REQUIRED BY THE UTILITY COMPANY.
3. REFERENCE DETAIL SHEET FOR GREASE TRAP INFORMATION.
4. A SEPARATE DOMESTIC WASTE LINE SHALL BE PROVIDED AND CONNECTED TO THE KITCHEN WASTE LINE AFTER THE GREASE TRAP MONITORING MANHOLE AS DEPICTED HEREON.
5. THE TOWNSHIP OF NORTH BRUNSWICK SHALL HAVE NO RESPONSIBILITY FOR OWNERSHIP, MAINTENANCE, OR OPERATION OF THE SANITARY SEWER FACILITIES, INCLUDING THE GREASE TRAP AND LATERALS, AS PROPOSED. THE OWNERSHIP IS REQUIRED TO SUBMIT A COPY OF THE VIDEO RESULTS TO THE TOWNSHIP SEWER DEPARTMENT. IN ADDITION, THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CURRENT OR FUTURE PROPERTY OWNER.
6. ALL CLEANOUTS IN A PAVED AREA SHALL HAVE A MONUMENT BOX WITH ACCESS COVER.
7. LATERAL CLEANOUT SPACING SHALL NOT EXCEED 75 FEET.
8. THE PROPOSED SANITARY SEWER PIPES SHALL BE WATER JET CLEANED, SLOGGED, AND TELEVIEWED PRIOR TO ISSUING EITHER A TEMPORARY CERTIFICATE OF OCCUPANCY OR PERMANENT CERTIFICATE OF OCCUPANCY. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A COPY OF THE VIDEO RESULTS TO THE TOWNSHIP SEWER DEPARTMENT. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF THE WATER USED IN THE WATER JET CLEANING AND SUBMITTING DOCUMENTATION OF THE DISPOSAL TO THE TOWNSHIP SEWER DEPARTMENT.

1. UNLESS OTHERWISE INDICATED, ALL STORM SEWER PIPE SHALL BE CLASS II, REINFORCED CONCRETE, WITH O-RING GASKETS.
2. ALL GRATES ARE TO BE BICYCLE SAFE CAMPBELL FLOWNOY NO. 2618 ('B' INLET), 3405 ('A' INLET), 3425 ('E' INLET), OR EQUIVALENT.
3. ALL 'B' INLET HEADER PIECES SHALL BE ECO-FRIENDLY TYPE 'J' OR TYPE 'N' AS MANUFACTURED BY CAMPBELL FLOWNOY, OR EQUIVALENT.
4. THE STORM SEWER PIPING HAS BEEN DESIGNED TO MEET MINIMUM SLOPE AND COVER REQUIREMENTS AS RECOMMENDED BY THE MANUFACTURER.
5. IF PERMITTED, CONCRETE BLOCK MAY BE USED IN LIEU OF PRECAST STRUCTURES.
6. ALL INVERTS OF INLETS, CATCH BASINS, AND MANHOLES SHALL BE FINISHED TO PROVIDE A SMOOTH CONTINUATION OF THE PIPE. THE COMPLETED CHANNEL SHOULD BE U-SHAPED AND A HEIGHT EQUIVALENT TO THREE-FOURTHS OF THE DIAMETER OF THE PIPE.
7. THE WORDS "STORM SEWER" SHALL BE CAST INTEGRALLY INTO ALL MANHOLE COVERS.
8. WHERE THE STORM SEWER CROSSES WITHIN 18' OF ANOTHER UTILITY (SANITARY SEWER, WATER, OR GAS LINES), THE UTILITY ABOVE THE STORM SEWER SHALL BE ENCASED IN CONCRETE OR SUPPORT BLOCKS INSTALLED TO PREVENT DAMAGE TO THE PIPES.
9. FOLLOWING INSTALLATION OF THE PARKING LOT BASE COURSE, THE AREAS AROUND CATCH BASINS AND MANHOLES SHALL BE BUILT-UP WITH GRAVEL TO FACILITATE SNOW FLOWING AND TO PREVENT DAMAGE TO VEHICLES PASSING OVER THEM.
10. PIPE BEDDING AND BACKFILL SHALL BE APPROVED BY THE MUNICIPAL ENGINEER.
11. ALL ROOF DOWNSPOUTS SHALL BE TIED INTO THE STORMWATER SYSTEM AS DEPICTED ON THE PLAN.
12. ALL EXISTING PIPES, STRUCTURES AND CURB CUTS MUST BE CLEARED OF ANY DEBRIS AND FREE FLOWING.
13. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO THE TOWNSHIP FOR CATCH BASINS, CASTINGS, PIPING, AND ASSOCIATED APPURTENANCES.

The PowerCharge Pro Series is designed to be the ultimate commercial electric vehicle charging station. An attractive, powerful and durable level

The PowerCharge Pro Series is designed to be the ultimate commercial electric vehicle charging station. An attractive, powerful and durable level 2 charger, the PowerCharge Pro features...

- ✓ Colloidal grade components; robust steel housing with casted grade powder coat finish, NEMA 3R rated for outdoor use in the toughest environments. Our internal electronics are built to hold up to the highest utilization of public charging.
- ✓ We back up our Pro Series with a 2 year warranty\*
- ✓ Choose the rate of charging (RPH – range per hour) to fit your need. Level 2 - 238-240 volt; available in 15 amp (~20 mile RPH), 30 amp (~20 mile RPH) and 40 amp (~30 mile RPH) outputs.
- ✓ The Pro Link is our networked version providing Point of Sale (PoS) now drives an entire system to join a proprietary network. We have, with all Pro Series networked stations, we manage the fleet, service the revenue\*\*\*. Usage data reporting and access control are included comprehensive management of your EV Charging Program.

Available in pedestal and wall mount, networked and basic non-networked, single and dual connector, the **PowerCharge Pro** is available in the ideal configuration for your project.

\* Road warranty terms and conditions in the operator manual and at [PowerChargeEV.com](http://PowerChargeEV.com)  
 \*\* Processing fees apply

**PowerCharge**  
 7464 W. Henrietta Road | Rush, NY 14543 | 585.533.4085 | [PowerChargeEV.com](http://PowerChargeEV.com)

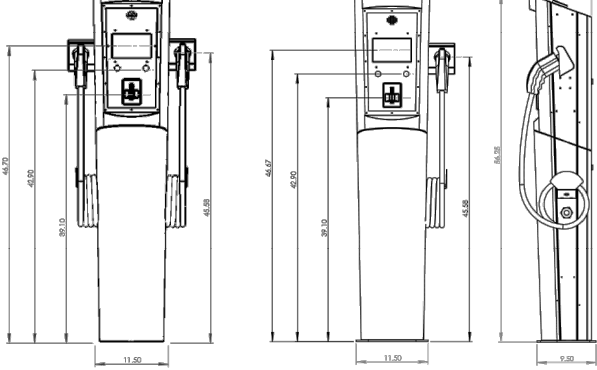
- Attractive design, commercial durability
- Level 2 AC, Single or Dual Port
- Pedestal or Wall Mount, easy installation
- Networked and Non-Networked versions
- Easy remote networked management featuring point and click graphical user interface
- Data collection and reporting online for easy management and fleet tracking
- SSL data protection, encrypted payment card information
- Immediate response controls with integrated ZigBee, SSP 1.X and SSP 2.0 capable
- LAN and Cellular communication (networked stations only)
- Reverse grade Energy Meter (networked stations only)
- Payment options: All major credit cards, PowerCharge management\*\*
- Open Charge Point Protocol (OCPP) compliant
- Pay per meter, per kWh, or any custom combination
- Display: touch screen, 4.3" color embedded display
- Getaways: [www.getaways.com](http://www.getaways.com) or [info@getaways.com](mailto:info@getaways.com) to learn how networked chargers for low maintenance

Input Voltage	200/240 VAC
Input Current	10A/15A
Input Power Connections	Line, Load, Neutral, Ground Required Service Panel Breaker: 16A/25A, 30A/50A, 40A/75A
Electrical Output	4000/5000 (Cents/Minute) – Dual station terminals (2) feeds
Output Charging Power	3.3kW, 2.0kW, 1.5kW, 1.0kW
Output Voltage	240V, 208V, 120V, 100V
Output Charging Connector	SAE J1772, 1776, 1779
User Interface and Convenience <sup>1</sup>	Color touchscreen display and parent programming
Card Reader	EMV, Visa, MasterCard and In House card Readers RFID Card Reader
Ground Fault Protection	30mA GFCI with automatic reset 15-min, inverter, tripping 1 time.
Plug Load Protection	30mA GFCI with automatic reset 15-min, inverter, tripping 1 time.
Power Measurement – optional	Real-time power and energy monitoring
Power Factor Correction – optional	Reverse grade energy metering available
Wide Area Network <sup>2</sup> – optional	WiFi, Ethernet, 4G LTE, 3G, GSM
Safety Compliance	ETL Listed for US and Canada, complies with UL 2241, UL 508, UL 2232, UL 2233, UL 2234, UL 2235, UL 2236, UL 2237, UL 2238, UL 2239, UL 2240, UL 2241, UL 2242, UL 2243, UL 2244, UL 2245, UL 2246, UL 2247, UL 2248, UL 2249, UL 2250, UL 2251, UL 2252, UL 2253, UL 2254, UL 2255, UL 2256, UL 2257, UL 2258, UL 2259, UL 2260, UL 2261, UL 2262, UL 2263, UL 2264, UL 2265, UL 2266, UL 2267, UL 2268, UL 2269, UL 2270, UL 2271, UL 2272, UL 2273, UL 2274, UL 2275, UL 2276, UL 2277, UL 2278, UL 2279, UL 2280, UL 2281, UL 2282, UL 2283, UL 2284, UL 2285, UL 2286, UL 2287, UL 2288, UL 2289, UL 2290, UL 2291, UL 2292, UL 2293, UL 2294, UL 2295, UL 2296, UL 2297, UL 2298, UL 2299, UL 2300, UL 2301, UL 2302, UL 2303, UL 2304, UL 2305, UL 2306, UL 2307, UL 2308, UL 2309, UL 2310, UL 2311, UL 2312, UL 2313, UL 2314, UL 2315, UL 2316, UL 2317, UL 2318, UL 2319, UL 2320, UL 2321, UL 2322, UL 2323, UL 2324, UL 2325, UL 2326, UL 2327, UL 2328, UL 2329, UL 2330, UL 2331, UL 2332, UL 2333, UL 2334, UL 2335, UL 2336, UL 2337, UL 2338, UL 2339, UL 2340, UL 2341, UL 2342, UL 2343, UL 2344, UL 2345, UL 2346, UL 2347, UL 2348, UL 2349, UL 2350, UL 2351, UL 2352, UL 2353, UL 2354, UL 2355, UL 2356, UL 2357, UL 2358, UL 2359, UL 2360, UL 2361, UL 2362, UL 2363, UL 2364, UL 2365, UL 2366, UL 2367, UL 2368, UL 2369, UL 2370, UL 2371, UL 2372, UL 2373, UL 2374, UL 2375, UL 2376, UL 2377, UL 2378, UL 2379, UL 2380, UL 2381, UL 2382, UL 2383, UL 2384, UL 2385, UL 2386, UL 2387, UL 2388, UL 2389, UL 2390, UL 2391, UL 2392, UL 2393, UL 2394, UL 2395, UL 2396, UL 2397, UL 2398, UL 2399, UL 2400, UL 2401, UL 2402, UL 2403, UL 2404, UL 2405, UL 2406, UL 2407, UL 2408, UL 2409, UL 2410, UL 2411, UL 2412, UL 2413, UL 2414, UL 2415, UL 2416, UL 2417, UL 2418, UL 2419, UL 2420, UL 2421, UL 2422, UL 2423, UL 2424, UL 2425, UL 2426, UL 2427, UL 2428, UL 2429, UL 2430, UL 2431, UL 2432, UL 2433, UL 2434, UL 2435, UL 2436, UL 2437, UL 2438, UL 2439, UL 2440, UL 2441, UL 2442, UL 2443, UL 2444, UL 2445, UL 2446, UL 2447, UL 2448, UL 2449, UL 2450, UL 2451, UL 2452, UL 2453, UL 2454, UL 2455, UL 2456, UL 2457, UL 2458, UL 2459, UL 2460, UL 2461, UL 2462, UL 2463, UL 2464, UL 2465, UL 2466, UL 2467, UL 2468, UL 2469, UL 2470, UL 2471, UL 2472, UL 2473, UL 2474, UL 2475, UL 2476, UL 2477, UL 2478, UL 2479, UL 2480, UL 2481, UL 2482, UL 2483, UL 2484, UL 2485, UL 2486, UL 2487, UL 2488, UL 2489, UL 2490, UL 2491, UL 2492, UL 2493, UL 2494, UL 2495, UL 2496, UL 2497, UL 2498, UL 2499, UL 2500, UL 2501, UL 2502, UL 2503, UL 2504, UL 2505, UL 2506, UL 2507, UL 2508, UL 2509, UL 2510, UL 2511, UL 2512, UL 2513, UL 2514, UL 2515, UL 2516, UL 2517, UL 2518, UL 2519, UL 2520, UL 2521, UL 2522, UL 2523, UL 2524, UL 2525, UL 2526, UL 2527, UL 2528, UL 2529, UL 2530, UL 2531, UL 2532, UL 2533, UL 2534, UL 2535, UL 2536, UL 2537, UL 2538, UL 2539, UL 2540, UL 2541, UL 2542, UL 2543, UL 2544, UL 2545, UL 2546, UL 2547, UL 2548, UL 2549, UL 2550, UL 2551, UL 2552, UL 2553, UL 2554, UL 2555, UL 2556, UL 2557, UL 2558, UL 2559, UL 2560, UL 2561, UL 2562, UL 2563, UL 2564, UL 2565, UL 2566, UL 2567, UL 2568, UL 2569, UL 2570, UL 2571, UL 2572, UL 2573, UL 2574, UL 2575, UL 2576, UL 2577, UL 2578, UL 2579, UL 2580, UL 2581, UL 2582, UL 2583, UL 2584, UL 2585, UL 2586, UL 2587, UL 2588, UL 2589, UL 2590, UL 2591, UL 2592, UL 2593, UL 2594, UL 2595, UL 2596, UL 2597, UL 2598, UL 2599, UL 2600, UL 2601, UL 2602, UL 2603, UL 2604, UL 2605, UL 2606, UL 2607, UL 2608, UL 2609, UL 2610, UL 2611, UL 2612, UL 2613, UL 2614, UL 2615, UL 2616, UL 2617, UL 2618, UL 2619, UL 2620, UL 2621, UL 2622, UL 2623, UL 2624, UL 2625, UL 2626, UL 2627, UL 2628, UL 2629, UL 2630, UL 2631, UL 2632, UL 2633, UL 2634, UL 2635, UL 2636, UL 2637, UL 2638, UL 2639, UL 2640, UL 2641, UL 2642, UL 2643, UL 2644, UL 2645, UL 2646, UL 2647, UL 2648, UL 2649, UL 2650, UL 2651, UL 2652, UL 2653, UL 2654, UL 2655, UL 2656, UL 2657, UL 2658, UL 2659, UL 2660, UL 2661, UL 2662, UL 2663, UL 2664, UL 2665, UL 2666, UL 2667, UL 2668, UL 2669, UL 2670, UL 2671, UL 2672, UL 2673, UL 2674, UL 2675, UL 2676, UL 2677, UL 2678, UL 2679, UL 2680, UL 2681, UL 2682, UL 2683, UL 2684, UL 2685, UL 2686, UL 2687, UL 2688, UL 2689, UL 2690, UL 2691, UL 2692, UL 2693, UL 2694, UL 2695, UL 2696, UL 2697, UL 2698, UL 2699, UL 2700, UL 2701, UL 2702, UL 2703, UL 2704, UL 2705, UL 2706, UL 2707, UL 2708, UL 2709, UL 2710, UL 2711, UL 2712, UL 2713, UL 2714, UL 2715, UL 2716, UL 2717, UL 2718, UL 2719, UL 2720, UL 2721, UL 2722, UL 2723, UL 2724, UL 2725, UL 2726, UL 2727, UL 2728, UL 2729, UL 2730, UL 2731,

Variable	Options
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Variable	Options
RPH <i>Range Per Hour of Charge</i>	10 – 10 Miles / 16 Amp 20 – 20 Miles / 30 Amp 30 – 30 Miles / 40 Amp
Connectors	S – Single D – Dual
Mount	W – Wall P – Pedestal
Networking	N – Networked ( ) – Non-Networked
Retractor	R – Retractor ( ) – No Retractor

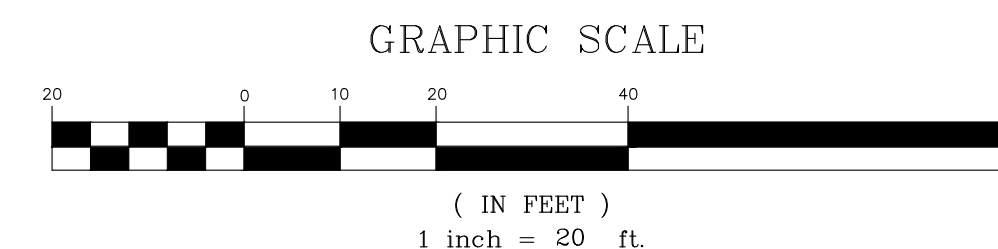
Ex. P20DWN = Pro Series, 20RPH (30 Arms), Dual Wall Mount, Networked, Retracts





**NOTE: CHARGING STATION TO BE PEDESTAL MOUNT WITH TWO CHARGING CABLES. SUBSTITUTIONS ARE PERMITTED FOR AN "OR EQUAL" DEVICE. CAR CHARGERS TO BE ACTIVE 8 AM - 8 PM.**

PRIOR TO BUILDING STAKEOUT, THE LOCATION OF THE SANITARY SEWER CONNECTION SHALL BE VERIFIED BY TEST PIT TO DETERMINE THE EXACT DEPTH AND INVERT AT THE CONNECTION POINT.

THE EXISTING SANITARY SEWER LATERAL SHALL  
BE REMOVED TO THE SATISFACTION OF THE  
UTILITY AUTHORITY AND TOWNSHIP ENGINEER



NO.		DATE		DESCRIPTION					
<p align="center"><b>PRELIMINARY &amp; FINAL MAJOR SITE PLAN</b>  <b>2720 U.S. HIGHWAY 130</b>  <b>GRADING &amp; UTILITY PLAN</b></p> <p align="center">BLOCK 224, LOT 1  TAX MAP SHEET NO. 60</p> <p>TOWNSHIP OF NORTH BRUNSWICK                      MIDDLESEX COUNTY, NEW JERSEY</p>									
		<p align="center"><b>EAST POINT</b>  ENGINEERING, LLC</p> <p align="center">NEW JERSEY CERTIFICATE OF  AUTHORIZATION NO. 246A28169800</p>		<p align="center">11 South Main Street  Marlboro, NJ 07746  Tel: 732.577.0180</p>					
		<p align="center">01-24-22</p> <p align="center">DATE</p>		<table border="1"> <tr> <td>DATE: 01-24-22</td> <td>PROJECT NUMBER: 21-472</td> </tr> <tr> <td>SCALE: 1" = 20'</td> <td>CHECKED BY: BNP</td> </tr> </table>		DATE: 01-24-22	PROJECT NUMBER: 21-472	SCALE: 1" = 20'	CHECKED BY: BNP
DATE: 01-24-22	PROJECT NUMBER: 21-472								
SCALE: 1" = 20'	CHECKED BY: BNP								
<p><b>MARD S. LEBER</b>  N.J. PROFESSIONAL ENGINEER, LICENSE NO. 246E04452400</p>		<p align="center">DATE</p>		<p align="center"><b>SHEET NO. 4 OF 15</b></p>					



PLANTING NOTES

- THIS PLAN SHALL BE USED FOR LANDSCAPE PLANTING PURPOSES ONLY. EXAMINE ALL ENGINEERING DRAWINGS AND FIELD CONDITIONS FOR SPECIFIC LOCATIONS OF UTILITIES, STRUCTURES, ETC. AND NOTIFY THE UNDERSIGNED IN REFERENCE TO ANY DISCREPANCIES OR LOCATION CONFLICTS PRIOR TO PLANTING INSTALLATION.
- ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN OR THE PLANT MATERIAL WILL BE UNACCEPTABLE. ALL PLANT MATERIAL SHALL BE TRUE TO SPECIES, VARIETY, SIZE AND BE CERTIFIED DISEASE AND INSECT FREE.
- NO PLANT SUBSTITUTIONS SHALL BE PERMITTED WITH REGARDS TO SIZE, SPECIES, VARIETY, ETC. WITHOUT WRITTEN PERMISSION OF THE THE UNDERSIGNED OR TOWNSHIP OFFICIALS. WRITTEN PROOF OF PLANT MATERIAL UNAVAILABILITY MUST BE DOCUMENTED.
- THE LOCATION OF ALL PLANT MATERIAL INDICATED ON THE LANDSCAPE PLANS IS APPROXIMATE. THE FINAL LOCATION OF ALL PLANT MATERIAL AND PLANTING BED LINES SHALL BE DETERMINED IN THE FIELD UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT. NO SHADE TREE, STREET TREE, ORNAMENTAL FLOWERING TREE OR EVERGREEN TREE SHALL BE PLANTED CLOSER THAN 5' FROM ANY SIDEWALK, DRIVEWAY, CURB OR UTILITY LOCATION, OR WITHIN 10' OF A SEPTIC FIELD, UNLESS SPECIFICALLY DIMENSIONED ON THE LANDSCAPE PLAN.
- ALL STREET TREES AND SHADE TREES PLANTED NEAR PEDESTRIAN OR VEHICULAR ACCESS SHOULD NOT BE BRANCHED LOWER THAN 7'-0" ABOVE GRADE. ALL PLANT MATERIAL LOCATED WITHIN ANY SIGHT TRIANGLE EASEMENTS SHALL NOT EXCEED A MATURE HEIGHT OF 30' ABOVE THE ELEVATION OF THE ADJACENT CURB. ALL STREET TREES PLANTED IN ANY SIGHT TRIANGLE EASEMENTS SHALL BE PRUNED AS MENTIONED ABOVE.
- THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT SCHEDULE SHOULD ANY PLANT QUANTITY DISCREPANCIES OCCUR.
- ALL PLANT MATERIAL SHALL BE PROPERLY CURED, STAKED, WRAPPED AND PLANTED IN CONFORMANCE WITH THE TYPICAL PLANTING DETAILS. GUY WIRES SHALL BE ATTACHED TO THE TREE AT A HEIGHT OF TWO-THIRDS THE HEIGHT OF THE TREE AND SHOULD BE LOCATED AT POINTS SO NOT TO SPLIT THE TRUNKS OF MULTI-STEMMED TREES. UNLESS OTHERWISE NOTED, PROVIDE THREE TREE STAKES PER TREE. INSTALL ALL PLANT MATERIAL ON UNDISTURBED GRADE. PROVIDE BURLAP WRAPPING WITH A 50% OVERLAP. CUT AND REMOVE BURLAP FROM TOP ONE-THIRD OF THE ROOT BALL.
- PROVIDE PLANTING PITS AS INDICATED ON THE PLANTING DETAILS. BACKFILL PLANTING PITS WITH ONE PART EACH OF TOPSOIL, PEAT MOSS AND PARENT MATERIAL. IF WET SOIL CONDITIONS EXIST THEN PLANTING PITS SHALL BE EXCAVATED AN ADDITIONAL 12" AND FILLED WITH SAND.
- ALL PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT BORE TO EXISTING GRADE.
- NEWLY INSTALLED PLANT MATERIAL SHALL BE WATERED AT THE TIME OF INSTALLATION. REGULAR WATERING SHALL BE PROVIDED TO ENSURE THE ESTABLISHMENT, GROWTH AND SURVIVAL OF ALL PLANTS.
- ALL PLANT MATERIAL SHALL BE GUARANTEED FOR TWO (2) YEARS AFTER THE DATE OF FINAL ACCEPTANCE BY THE MUNICIPALITY.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM 4" LAYER OF TOPSOIL IN ALL LAWN AREAS AND A MINIMUM OF 12" OF TOPSOIL IN ALL PLANTING AREAS. A FULL SOIL ANALYSIS SHALL BE CONDUCTED AFTER CONSTRUCTION AND PRIOR TO PLANTING TO DETERMINE THE EXTENT OF SOIL AMENDMENT REQUIRED.
- ALL DISTURBED LAWN AREAS SHALL BE STABILIZED WITH EITHER SOD OR SEED AS INDICATED ON THE LANDSCAPE PLANS. SOD SHALL CONSIST OF A NEW JERSEY CERTIFIED MIXTURE OR AN APPROVED EQUAL. SEED MIXTURE SHALL BE AS LISTED IN THE SEEDING SCHEDULE. ALL DISTURBED LAWN AREAS SHALL BE TOPDRESSED, LIMED, FERTILIZED AND FINE GRADED PRIOR TO LAWN INSTALLATION.
- ALL PLANTING BEDS SHALL RECEIVE LANDSCAPE ROCK OR RIVER STONE. THE USE OF SHREDDED HARDWOOD BARK OR MULCH IS PROHIBITED.
- ALL EXISTING TREES AND SHRUBS TO BE PRESERVED ON SITE SHALL BE PROTECTED AGAINST CONSTRUCTION DAMAGE BY SNOW FENCING. ALL FENCING SHALL BE PLACED OUTSIDE THE INDIVIDUAL TREE CANOPY. ALL TREES TO REMAIN SHALL BE IDENTIFIED IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION, GRADING OR CLEARING. ALL EXISTING VEGETATION BEING PRESERVED AND LOCATED AT THE EDGE OF THE NEW TREE LINE SHALL BE PRUNED AND TRIMMED TO REMOVE ALL DEAD, DISEASED, OR DAMAGED BRANCHES.
- AN IRRIGATION SYSTEM IS PROPOSED.
- SHADE & STREET TREES SHOULD BE A MINIMUM OF 3"-3.5" CALIPER AND 12'-14" IN HEIGHT.
- ORNAMENTAL TREES SHOULD BE 8" TO 10" IN HEIGHT.
- SHRUBS SHOULD BE 24" TO 36" IN HEIGHT.
- ANY NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM THE ROOTBALLS AT THE TIME OF INSTALLATION.
- GUY WIRES AND STAKES WILL ONLY BE UTILIZED IF CONDITIONS MERIT. IF UTILIZED, SHOULD BE REMOVED BY THE DEVELOPER AT THE END OF THE GROWTH PERIOD.
- THE CENTRAL LEADER SHOULD NOT BE CUT OR REMOVED FROM THE DECIDUOUS TREES.
- ALL SHRUB AND TREE PLANTING SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK - ANSI Z601-2004.
- LANDSCAPING SHALL HAVE A TWO (2) YEAR GUARANTEE.
- ROCKS SHALL NOT BE PLACED WITHIN 6" OF THE ROOT COLLAR. THE MINIMUM DIAMETER OF THE SCARIFIED SUB-GRADE SHALL BE 5 TIMES THE ROOT BALL DIAMETER. ALL TWINE, WIRE, ROPE AND BURLAP FROM THE TOP 3 OF THE ROOT BALL SHALL BE REMOVED.
- MYCOR TREE SAVER SHALL BE MIXED IN THE BACKFILL WHEN PLANTING TREES AND SHRUBS. IN ADDITION, HEALTHY START MACRO TABS 12-8-8 SHALL BE PLACED IN THE UPPER 4" OF THE BACKFILL AROUND TREES AND SHRUBS. THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOR USE WITH THESE PRODUCTS.
- ALL LAWN AREAS SHALL RECEIVE A MINIMUM OF 4 INCHES OF TOPSOIL.
- VEGETATIVE COVER SHALL BE IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION & SEDIMENT CONTROL IN NEW JERSEY AND APPROVED BY THE FREEHOLD SOIL CONSERVATION DISTRICT.
- ALL AREAS WHERE NATURAL VEGETATION AND/OR SPECIMEN TREES ARE TO REMAIN SHALL BE PROTECTED BY THE ERECTION OF FENCING, AND NO DISTURBANCE SHALL OCCUR PRIOR TO INSPECTION BY THE TOWNSHIP ENGINEER AND THE ISSUANCE OF WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION. ANY PROTECTIVE MEASURES SHALL NOT BE ALTERED OR REMOVED WITHOUT THE PROPER APPROVAL OF THE TOWNSHIP ENGINEER.
- TOPSOIL IN LANDSCAPE AREAS SHALL HAVE A MINIMUM DEPTH OF TWO (2) FEET FOR SHRUBBERY AND FOUR (4) FEET FOR TREES.

SCHEDULE OF PLANTING MATERIALS

SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
DECIDUOUS TREES					
LS	5	LIQUIDAMBAR STYRAOIFLUA	SWEETGUM	2.5"-3" CAL. 12'-15' HT.	B&B
ZS	3	ZELKOVA SERRATA	JAPANESE ZELKOVA	2.5"-3" CAL. 12'-15' HT.	B&B
EVERGREEN TREES					
PM	2	PSEUDOTSUGA MENZIEI	DOUGLAS FIR	5'-6" HT	B&B
YL	14	CUPRESSUS X LEYLANDII	LEYLAND CYPRESS	5'-6" HT	B&B
ORNAMENTAL TREES					
MS	3	MAGNOLIA STELLATA	STAR MAGNOLIA	5'-6" HT	B&B, MULTISTEMMED
SHRUBS					
IC	33	ILEX CRENATA 'HELLERI'	DWARF JAPANESE HOLLY	36" HT	# 3 CAN
JV	3	JUNIPERUS VIRGINIANA 'SKYROCKET'	SKYROCKET JUNIPER	4'-5" HT	# 5 CAN
PF	13	POTENTILLA FRUTICOSA 'GOLDFINGER'	BUSH CINQUEFOIL	15-18" HT	# 3 CAN
SB	4	SPIRAEA x BUMALDA 'ANTHONY WATERER'	ANTHONY WATERER SPIRAEA	15-18" HT	# 3 CAN
YF	22	YUCCA FILAMENTOSA	ADAM'S NEEDLE	15-18" HT	# 3 CAN
ORNAMENTAL GRASSES					
FG	22	FESTUCA GLAUCA 'ELIJAH BLUE'	ELIJAH BLUE FESCUE	12-15" HT	# 2 CAN
MG	6	MISCANTHUS SINENSIS 'GRACILIMUS'	CHINESE MAIDENGRASS	24-36" HT	# 3 CAN
PV	5	PANICUM VIRGATUM	SWITCHGRASS	15-18" HT	# 3 CAN

ALL TREES UNDER 3" IN CALIPER SHALL BE STAKED.  
ALL TREES 3" IN CALIPER AND GREATER SHALL BE GUYED.  
ALL TREES SHALL BE PRUNED TO TRIM AND SHAPE CANOPY.  
LEADER OF TREE SHALL NEVER BE CUT.  
TREE SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE IN THE NURSERY.  
TWO-PLY FABRIC BEARING RUBBER HOSE 1/2" MIN. I.D. (3 REQ.)  
DOUBLE STRAND TWISTED MALLEABLE #10  
GALV. ANNEALED STEEL WIRE (3 REQ.)  
3" x 0.03 CEDAR STAKES PLACED ALONG DIRECTION OF PREVAILING WINDS OUTSIDE OF PLANTING PIT IN STABLE UNDISTURBED SOIL. STAKES TO BE SET 2/3RDS UP TREE OR JUST AT FIRST BRANCHES. DRIVE STAKES AT SLIGHT ANGLE THEN DRAW VERTICAL WITH ALL STAKES AT SAME HEIGHT.  
BIODEGRADABLE TREE WRAP ON TREE TRUNK.  
4" OF SHREDDED MULCH UNIFORMLY SPREAD.  
CONSTRUCT 8" HIGH SAUCER AROUND PERIMETER. REMOVE BURLAP FROM TOP 1/3 OF BALL. BACKFILL MIXTURE-2 PARTS NATIVE SOIL, 1 PART TOPSOIL, 1 PART PEAT MOSS.  
STAKES TO EXTEND 18" BELOW TREE PIT INTO UNDISTURBED SOIL. EXISTING SOIL TO BE LOOSENED TO 6" DEPTH WHERE SOILS ARE OF HIGH CLAY CONTENT.  
COMPACTED BACKFILL MIX OR UNDISTURBED SUBSOIL.

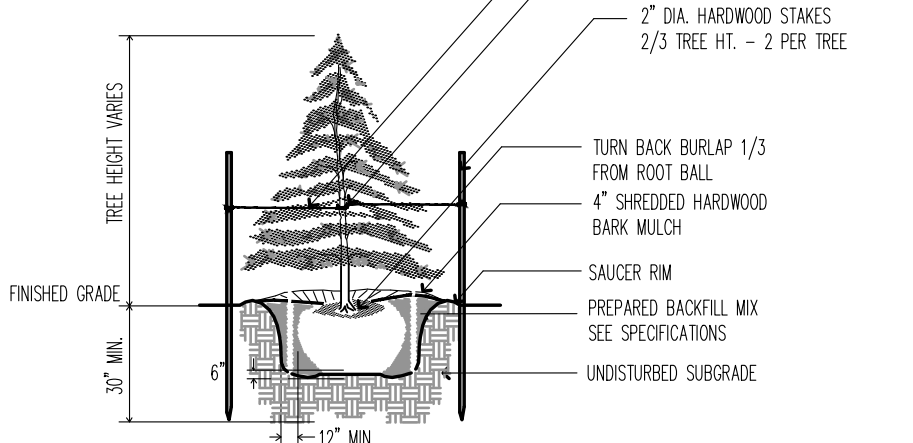
DECIDUOUS TREE PLANTING DETAIL

N.T.S.

NOTE: ALL WIRE BASKETS SHALL BE REMOVED FROM THE TREE BALL AFTER SETTLING INTO THE PLANTING PIT.

PLANTING NOTES

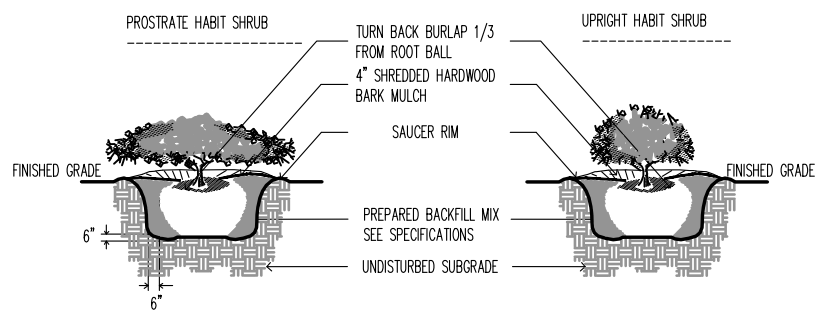
- PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY.
- WIRE BASKETS TO BE REMOVED PRIOR TO BACKFILLING THE PLANTING PIT.
- THE CENTRAL LEADER SHALL NOT BE CUT OUT DAMAGED.



CONIFEROUS TREE PLANTING DETAIL

N.T.S.

NOTE: ALL WIRE BASKETS SHALL BE REMOVED FROM THE TREE BALL AFTER SETTLING INTO THE PLANTING PIT.

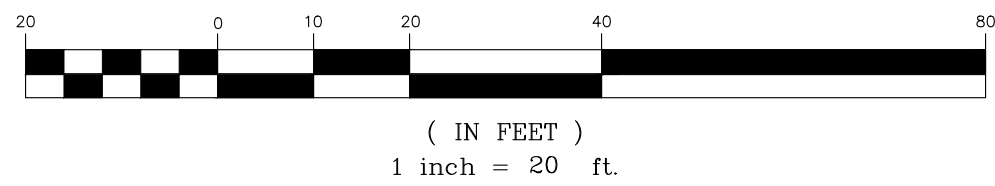


SHRUB PLANTING DETAIL

N.T.S.

PRIOR TO INSTALLATION OF TREES, THE CONTRACTOR SHALL MARK-OUT ALL SANITARY SEWER PIPES IN ORDER TO ENSURE THAT THE TREES ARE INSTALLED A MINIMUM OF 10 FEET AWAY FROM THE SANITARY SEWER PIPES.

GRAPHIC SCALE

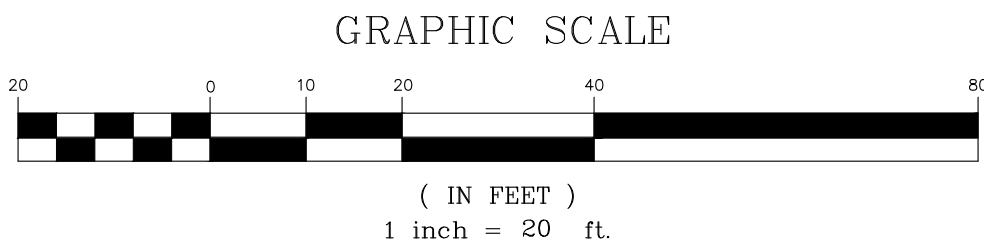


NO.		DATE		DESCRIPTION	
PRELIMINARY & FINAL MAJOR SITE PLAN					
2720 U.S. HIGHWAY 130					
LANDSCAPING PLAN					
BLOCK 224, LOT 1					
TAX MAP SHEET NO. 60					
TOWNSHIP OF NORTH BRUNSWICK					
MIDDLESEX COUNTY, NEW JERSEY					
		<b>EAST POINT</b>		11 South Main Street Marlboro, NJ 07746 Tel: 732.577.0180	
NEW JERSEY CERTIFICATE OF AUTHORIZATION NO. 246A2B169B00		DATE: 01-24-22		PROJECT NUMBER: 21-4722	
MARC S. LEBER		SCALE: 1" = 20'		CHECKED BY: BNP	
N.J. PROFESSIONAL ENGINEER, LICENSE NO. 240604452400		DATE: 01-24-22		SHEET NO. 5 OF 15	
N.J. PROFESSIONAL PLANNER, LICENSE NO. 33L005B96800					











SCALE: 1" = 200'

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NO.	DATE	DESCRIPTION
<b>PRELIMINARY &amp; FINAL MAJOR SITE PLAN</b> <b>2720 U.S. HIGHWAY 130</b> <b>SOIL EROSION &amp; SEDIMENT CONTROL PLAN</b>  BLOCK 224, LOT 1 TAX MAP SHEET NO. 60  TOWNSHIP OF NORTH BRUNSWICK                      MIDDLESEX COUNTY, NEW JERSEY		
 <b>EAST POINT</b> <b>ENGINEERING, LLC</b>		11 South Main Street Marlboro, NJ 07746 Tel: 732.577.0180
 <b>MARC S. LEBER</b> DATE _____		DATE: <b>01-24-22</b> SCALE: <b>1" = 20'</b> PROJECT NUMBER: <b>21-472</b> CHECKED BY: <b>BNP</b>
N.J. PROFESSIONAL ENGINEER, LICENSE NO. 246B04452400 N.J. PROFESSIONAL PLANNER, LICENSE NO. 3100049000		
<b>SHEET NO. 7 OF 15</b>		



SOIL EROSION & SEDIMENT CONTROL NOTES

1. THE FREEHOLD SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY SOIL DISTURBING ACTIVITY.
2. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
3. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
4. N.J.S.A. 4:24-39 ET. SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE THE DISTRICT DETERMINES THAT A PROJECT OR PORTION THEREOF IS IN FULL COMPLIANCE WITH THE CERTIFIED PLAN AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AND A REPORT OF COMPLIANCE HAS BEEN ISSUED. UPON WRITTEN REQUEST FROM THE APPLICANT, THE DISTRICT MAY ISSUE A REPORT OF COMPLIANCE WITH CONDITIONS ON A LOT-BY-LOT OR SECTION-BY-SECTION BASIS, PROVIDED THAT THE PROJECT OR PORTION THEREOF IS IN SATISFACTORY COMPLIANCE WITH THE SEQUENCE OF DEVELOPMENT AND TEMPORARY MEASURES FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN IMPLEMENTED, INCLUDING PROVISIONS FOR STABILIZATION AND SITE WORK.
5. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN SIXTY (60) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TO 2½ TONS PER ACRE, ACCORDING TO STATE STANDARD FOR STABILIZATION WITH MULCH ONLY.
6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AND A MULCH ANCHOR, IN ACCORDANCE WITH STATE STANDARDS.
7. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF PRELIMINARY GRADING.
8. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAD OF CLEAN CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING THE CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE PAVED, INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF ONE INCH TO TWO INCH (1" - 2") STONE FOR A MINIMUM LENGTH OF TEN FEET (10') EQUAL TO THE LOT ENTRANCE WIDTH. ALL OTHER ACCESS POINTS SHALL BE BLOCKED OFF.
9. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO THE PUBLIC RIGHT-OF-WAYS WILL BE REMOVED IMMEDIATELY.
10. PERMANENT VEGETATION IS TO BE SEEDDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING.
11. AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
12. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS/ACRE, (OR 450 LBS/SQ FT OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12" OF SETTLED SOIL WITH A PH OF 5 OR MORE, OR 24" WHERE TREES OR SHRUBS ARE TO BE PLANTED.
13. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
14. UNFILTERED DEWATERING IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DEWATERING.
15. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARD FOR DUST CONTROL.
16. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN. CERTIFICATION OF A NEW SOIL EROSION AND SEDIMENT CONTROL PLAN MAY BE REQUIRED FOR THESE ACTIVITIES IF AN AREA GREATER THAN 5,000 SQUARE FEET IS DISTURBED.
17. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #6.
18. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

MULCH AND MULCH ANCHORING SPECIFICATIONS

(rev. 2017)

Stabilizing exposed soils with non-vegetative materials exposed for periods longer than 14 days.

Methods and Materials

1. Site Preparation

A. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring. All grading should be done in accordance with Standards for Land Grading.

B. Install needed erosion control practices or facilities such as diversions, grade stabilization structures, channel stabilization structures, sediment basins, and waterways. See Standards 11 through 42.

2. Protective Materials

A. Unrotted small-grain straw, at 2.0 to 2.5 tons per acre, is spread uniformly at 90 to 115 pounds per 1,000 square feet and anchored with a mulch anchoring tool, liquid mulch binder, or mulch tie down. Other suitable materials may be used if approved by the Soil Conservation District. The approved rates above have been met when the mulch covers the ground completely upon visual inspection, i.e. the soil cannot be seen below the mulch.

B. Synthetic or organic soil stabilizers may be used under suitable conditions and in quantities as recommended by the manufacturer.

C. Wood-fiber or paper-fiber mulch at the rate of 1,500 pounds per acre (or according to the manufacturer's requirements) may be applied by a hydroseeder.

D. Mulch netting, such as paper jute, excelsior, cotton, or plastic, may be used.

E. Woodchips applied uniformly to a minimum depth of 2 inches may be used. Woodchips will not be used on areas where flowing water could wash them into an inlet and plug it.

SEEDING SCHEDULE – ZONE 6B

**SITE AND SEEDBED PREPARATION:** TO BE PERFORMED IN ACCORDANCE WITH CHAPTERS 4-1, 7-1 AND 8-1 OF THE JULY 2017 STANDARDS FOR SOIL EROSION & SEDIMENT CONTROL IN NEW JERSEY.

1. TEMPORARY GRASS SEEDING SHALL CONSIST OF SPRING OATS APPLIED AT A RATE OF 2.0 LBS. PER 1,000 S.F. OPTIMUM SEEDING DATES ARE BETWEEN MARCH 1 AND MAY 15 OR AUGUST 15 AND OCTOBER 1.

AN ALTERNATIVE TEMPORARY GRASS SEEDING SHALL CONSIST OF WINTER CEREAL RYE APPLIED AT A RATE OF 2.8 LBS. PER 1,000 S.F. OPTIMUM SEEDING DATES ARE BETWEEN AUGUST 1 AND NOVEMBER 15.

TEMPORARY SEEDING SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH PERMANENT SEEDING. IF ANY SERIOUS EROSION PROBLEM OCCURS, THE ERODED AREAS SHALL BE REPAIRED AND STABILIZED WITH A MULCH AS INDICATED IN NOTE 6.

2. PERMANENT SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE AS APPROVED BY THE FREEHOLD SOIL CONSERVATION DISTRICT:

USDA PLANT HARDINESS ZONE 6b, TABLE 4-3

MIX NUMBER 15

ACCEPTABLE SEEDING DATES ARE BETWEEN MARCH 1 AND APRIL 30

ACCEPTABLE SEEDING DATES ARE BETWEEN MAY 1 AND AUGUST 14 (IF IRRIGATION PRESENT)

OPTIMUM SEEDING DATES ARE BETWEEN AUGUST 15 AND OCTOBER 15

MIX DETAILS

58% HARD FESCUE (135 LBS/ACRE)

19% CHEWINGS FESCUE (45 LBS/ACRE)

19% STRONG CREEPING RED FESCUE (45 LBS/ACRE)

4% PERENNIAL RYE GRASS (10 LBS/ACRE)

\*APPLY AT A SEEDING RATE OF 230 LBS/ACRE OR 5.25 LBS/1000 S.F.

3. PERMANENT SEEDING TO BE APPLIED BY HYDROSEEDING AT A RATE OF 160 LBS. PER ACRE, SLOPED AREAS TO BE COVERED WITH MULCH AS INDICATED IN NOTE 6.
4. FERTILIZER – REFER TO SHEET 9B.
5. IF THE TIME OF YEAR PREVENTS THE ESTABLISHMENT OF TEMPORARY OR PERMANENT SEEDING, EXPOSED AREA TO BE STABILIZED WITH MULCH AS INDICATED IN NOTE 6.
6. MULCH TO CONSIST OF SMALL GRAIN STRAW OR SALT HAY ANCHORED WITH A WOOD AND FIBER MULCH BINDER OR AN APPROVED EQUAL.
7. ALL SEEDED AREAS SHALL BE MULCHED IN ACCORDANCE WITH THE MULCH AND MULCH ANCHORING SPECIFICATIONS ON THIS SHEET.
8. REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.
9. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

Standards for Soil Erosion and Sediment Control in New Jersey

July 2017

STANDARD FOR TOPSOILING

Definition

Topsoiling entails the distribution of suitable quality soil on areas to be vegetated.

Purpose

To improve the soil medium for plant establishment and maintenance.

Water Quality Enhancement

Growth and establishment of a vigorous vegetative cover is facilitated by topsoil, preventing soil loss by wind and rain offsite and into streams and other stormwater conveyances.

Where Applicable

Topsoil shall be used where soils are to be disturbed and will be revegetated.

Methods and Materials

1. Materials

A. Topsoil should be friable<sup>1</sup>, loamy<sup>2</sup>, free of debris, objectionable weeds and stones, and contain no toxic substance or adverse chemical or physical condition that may be harmful to plant growth. Soluble salts should not be excessive (conductivity less than 0.5 millimhos per centimeter. More than 0.5 millimhos may desiccate seedlings and adversely impact growth). Imported topsoil shall have a minimum organic matter content of 2.75 percent. Organic matter content may be raised by additives.

B. Topsoil substitute is a soil material which may have been amended with sand, silt, clay, organic matter, fertilizer or lime and has the appearance of topsoil. Topsoil substitutes may be utilized on site with insufficient topsoil for establishing permanent vegetation. All topsoil substitute materials shall meet the requirements of topsoil noted above. Soil tests shall be performed to determine the components of sand, silt, clay, organic matter, soluble salts and pH level.

2. Stripping and Stockpiling

A. Field exploration should be made to determine whether quantity and/or quality of surface soil justifies stripping.

B. Stripping shall be confined to the immediate construction area.

C. Where feasible, lime may be applied before stripping at a rate determined by soil tests to bring the soil pH to approximately 6.5.

<sup>1</sup>Friable means easily crumbles in the fingers, as defined in most soil tests.

<sup>2</sup>Loamy means texture groups consisting of coarse loamy sands, sandy loam, fine and very fine sandy loam, loam, silt loam, clay loam, sandy clay loam and silty clay loam textures and having less than 3% coarse fragments (particles less than 2mm in size ) as defined in the Glossary of Soil Science Terms, 1990, Soil Science Society of America.

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July 1999

D. A 4-6 inch stripping depth is common, but may vary depending on the particular soil.

E. Stockpiles of topsoil should be situated so as not to obstruct natural drainage or cause off-site environmental damage.

F. Stockpiles should be vegetated in accordance with standards previously described herein; see standards for Permanent (pg. 4-1) or Temporary (pg.7-1) Vegetative Cover for Soil Stabilization. Weeds should not be allowed to grow on stockpiles.

3. Site Preparation

A. Grade at the onset of the optimal seeding period so as to minimize the duration and area of exposure of disturbed soil to erosion. Immediately proceed to establish vegetative cover in accordance with the specified seed mixture. Time is of the essence

B. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application and anchoring, and maintenance. See the Standard for Land Grading, pg. 19-1.

C. As guidance for ideal conditions, subsoil should be tested for lime requirement. Limestone, if needed, should be applied to bring soil to a pH of approximately 6.5 and incorporated into the soil as nearly as practical to a depth of 4 inches.

D. Prior to topsoiling, the subsoil shall be in compliance with the Standard for Land Grading, pg. 19-1.

E. Employ needed erosion control practices such as diversions, grade stabilization structures, channel stabilization measures, sedimentation basins, and waterways. See Standards 11 through 42.

4. Applying Topsoil

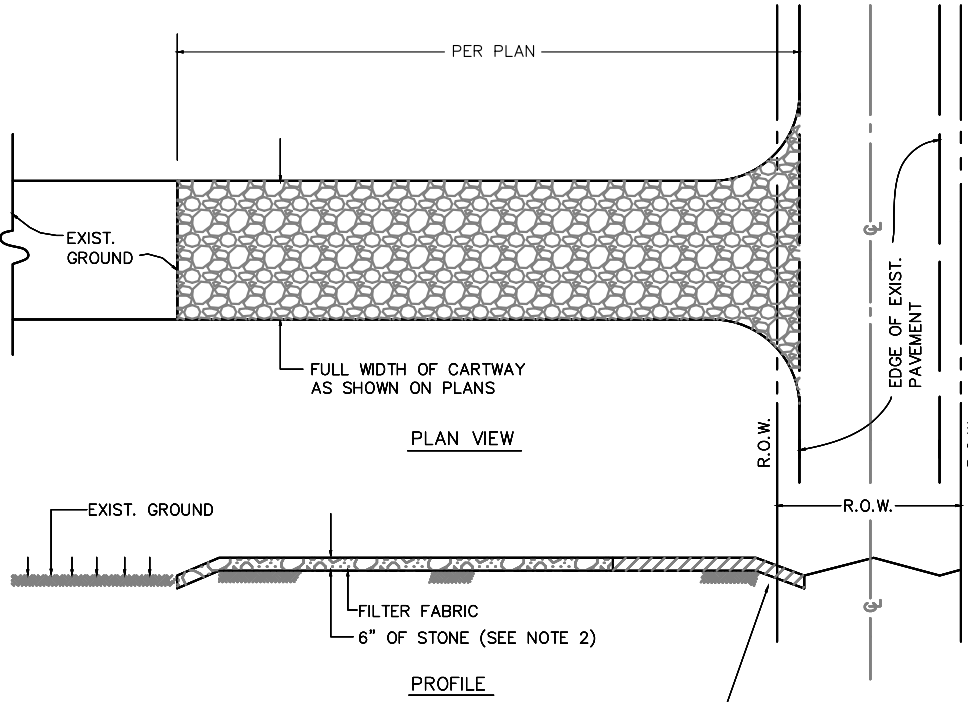
A. Topsoil should be handled only when it is dry enough to work without damaging soil structure; i.e., less than field capacity (see glossary).

B. A uniform application to an average depth of 5.0 inches, minimum of 4 inches, firmed in place is required. Alternative depths may be considered where special regulatory and/or industry design standards are appropriate such as on golf courses, sports fields, landfill capping, etc. Soils with a pH of 4.0 or less or containing iron sulfide shall be covered with a minimum depth of 12 inches of soil having a pH of 5.0 or more, in accordance with the Standard for Management of High Acid Producing Soil (pg. 1-1).

C. Pursuant to the requirements in Section 7 of the Standard for Permanent Vegetative Stabilization, the contractor is responsible to ensure that permanent vegetative cover becomes established on at least 80% of the soils to be stabilized with vegetation. Failure to achieve the minimum coverage may require additional work to be performed by the contractor to include some or all of the following: supplemental seeding, re-application of lime and fertilizers, and/or the addition of organic matter (i.e. compost) as a top dressing. Such additional measures shall be based on soil tests such as those offered by Rutgers Cooperative Extension Service or other approved laboratory facilities qualified to test soil samples for agronomic properties.

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NOTES:

1. PLACE STABILIZED CONSTRUCTION ENTRANCE AT LOCATION(S) AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
2. STONE SIZE SHALL BE ASTM C-33, SIZE NO.2 OR 3, CRUSHED STONE.
3. THE THICKNESS OF THE STAB. CONST. ENT. SHALL NOT BE LESS THAN 6".
4. THE WIDTH AT THE EXIST. PAVEMENT SHALL NOT BE LESS THAN THE FULL WIDTH OF POINTS OF INGRESS AND EGRESS.
5. THE STAB. CONST. ENT. SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE R.O.W./PAVEMENT. THIS REQUIRES PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR EQUIVALENT LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT.
6. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.

Table 29-1: Lengths of Construction Exits on Sloping Roadbeds

Percent Slope of Roadway	Length of Stone Required	
	Coarse Grained Soils	Fine Grained Soils
0 to 2%	50 ft	100 ft
2 to 5%	100 ft	200 ft
>5%	Entire surface stabilized with FABC base course <sup>1</sup>	

1. As prescribed by local ordinance or other governing authority.

STABILIZED CONSTRUCTION ENTRANCE

N.T.S.

CONSTRUCTION SCHEDULE AND PROCEDURE FOR IMPLEMENTATION OF SOIL EROSION AND SEDIMENT CONTROL MEASURES


1. INSTALL SILT FENCE, TREE PROTECTION, AND CONSTRUCTION ENTRANCE. 2 DAYS
2. DEMOLISH EXISTING IMPROVEMENTS, CLEAR SITE. 1 MONTH
3. STRIP AND STORE TOPSOIL IN STOCKPILE AND STABILIZE STOCKPILE. 1 DAY
4. CLEAR AND ESTABLISH ROUGH GRADES AS NECESSARY TO CONSTRUCT BUILDING ADDITION. 2-3 DAYS
5. CONSTRUCT DRAINAGE. 1-2 DAYS
6. CONSTRUCT UTILITIES AND CURBS. 1-2 WEEKS
7. CONSTRUCT BUILDING FOUNDATION, BUILDING. 4-6 MONTHS
8. INSTALL SITE LIGHTING, WALKWAYS. 2 WEEKS
9. PAVE PARKING AREAS. 1-2 DAYS
10. INSTALL LANDSCAPING. 2-3 DAYS
11. CONSTRUCT FINE GRADING TO FINISHED GRADES AND ESTABLISH PERMANENT VEGETATIVE COVER ON LOT. 1-2 DAYS
12. REMOVE SILT FENCE AFTER ALL DISTURBED AREAS HAVE BEEN ADEQUATELY STABILIZED. 1 DAY

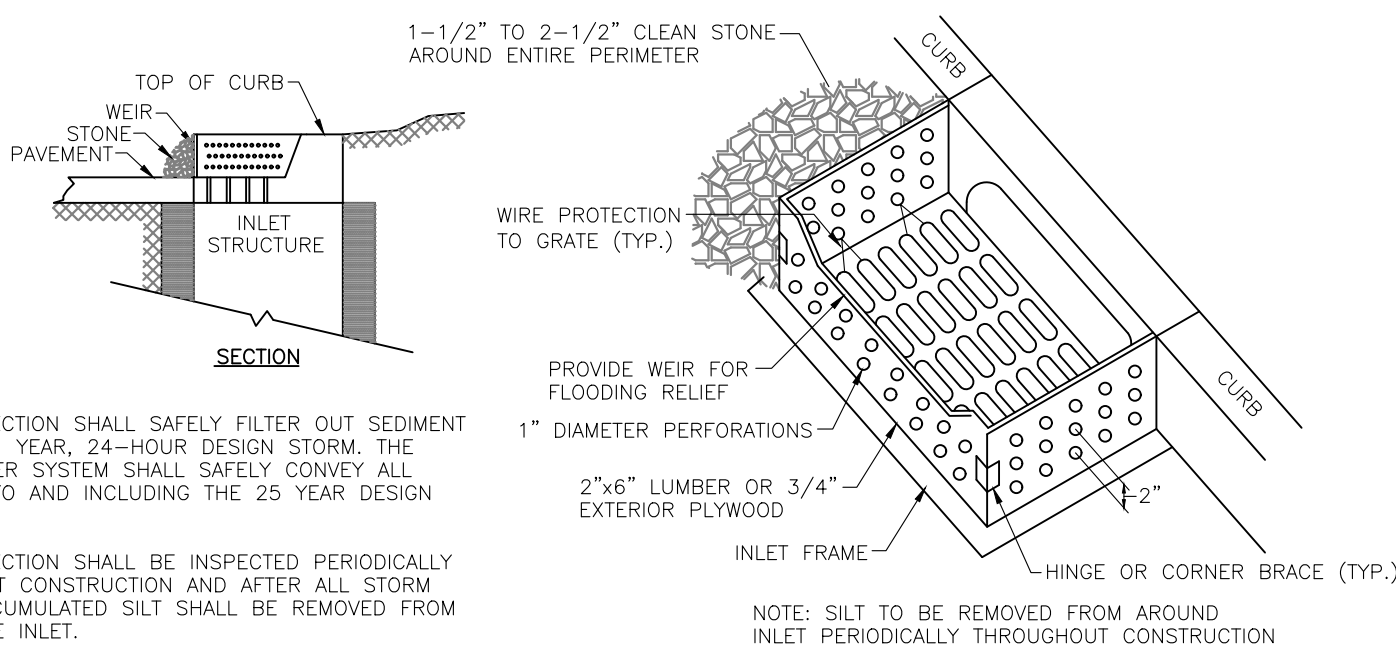
DUST CONTROL NOTES

TO PREVENT BLOWING AND THE MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, CONSTRUCTION ACTIVITIES, AND TO REDUCE ON-SITE AND OFF-SITE DAMAGE AND HEALTH HAZARDS, DUST CONTROL MEASURES SHALL BE ENACTED ON THE PROJECT SITE.

DURING CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE REMEDIATION TO CONTROL PARTICLES AND DUST THAT WILL ENTER INTO THE AIR DURING THE REMOVAL OFF THE ON-SITE STRUCTURES. THESE PROCEDURES MAY INVOLVE COATING THE DEBRIS WITH WATER OR ANOTHER SPRAY-ON ADHESIVE.

NOTE: IN THAT N.J.S.A. 4:24-39 ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES, ALL SITE WORK WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY

NO.	DATE	DESCRIPTION
PRELIMINARY & FINAL MAJOR SITE PLAN 2720 U.S. HIGHWAY 130 SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS BLOCK 224, LOT 1 TAX MAP SHEET NO. 60		
TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY, NEW JERSEY		
 <b>EAST POINT</b> ENGINEERING, LLC NEW JERSEY CERTIFICATE OF AUTHORIZATION NO. 24GA28169800		11 South Main Street Marlboro, NJ 07746 Tel: 732.577.0180
MARD S. LEBER N.J. PROFESSIONAL ENGINEER, LICENSE NO. 24800448400 N.J. PROFESSIONAL PLANNER, LICENSE NO. 33LI0589600		DATE: 01-24-22 SCALE: N/A PROJECT NUMBER: 21-4222 CHECKED BY: BNP
01-24-22		DATE
SHEET NO. 8 OF 15		

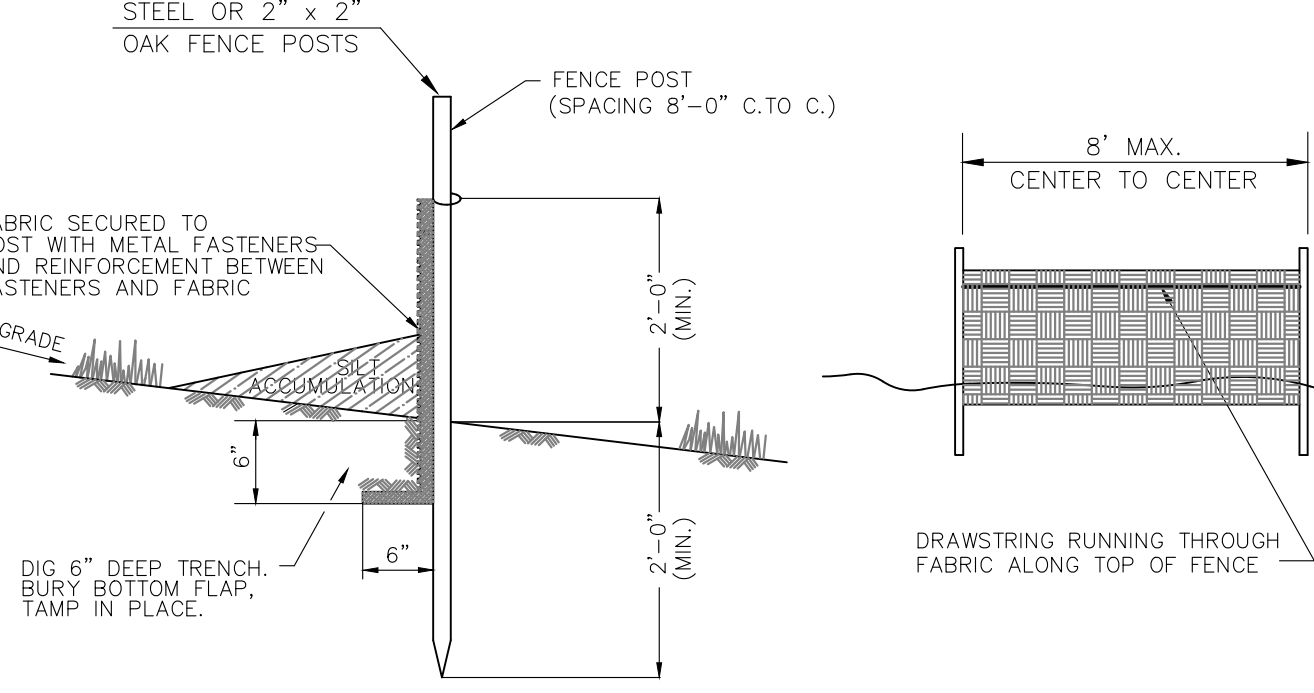


INLET PROTECTION DETAIL

N.T.S.

NOTES:

1. INLET PROTECTION SHALL SAFELY FILTER OUT SEDIMENT FROM THE 1 YEAR, 24-HOUR DESIGN STORM. THE STORM SEWER SYSTEM SHALL SAFELY CONVEY ALL FLOWS UP TO AND INCLUDING THE 25 YEAR DESIGN STORM.
2. INLET PROTECTION SHALL BE INSPECTED PERIODICALLY THROUGHOUT CONSTRUCTION AND AFTER ALL STORM EVENTS. ACCUMULATED SILT SHALL BE REMOVED FROM AROUND THE INLET.
3. FOR TYPE "A" AND "C" INLETS, PROVIDE SECOND WEIR PANEL ALONG FOURTH EDGE.

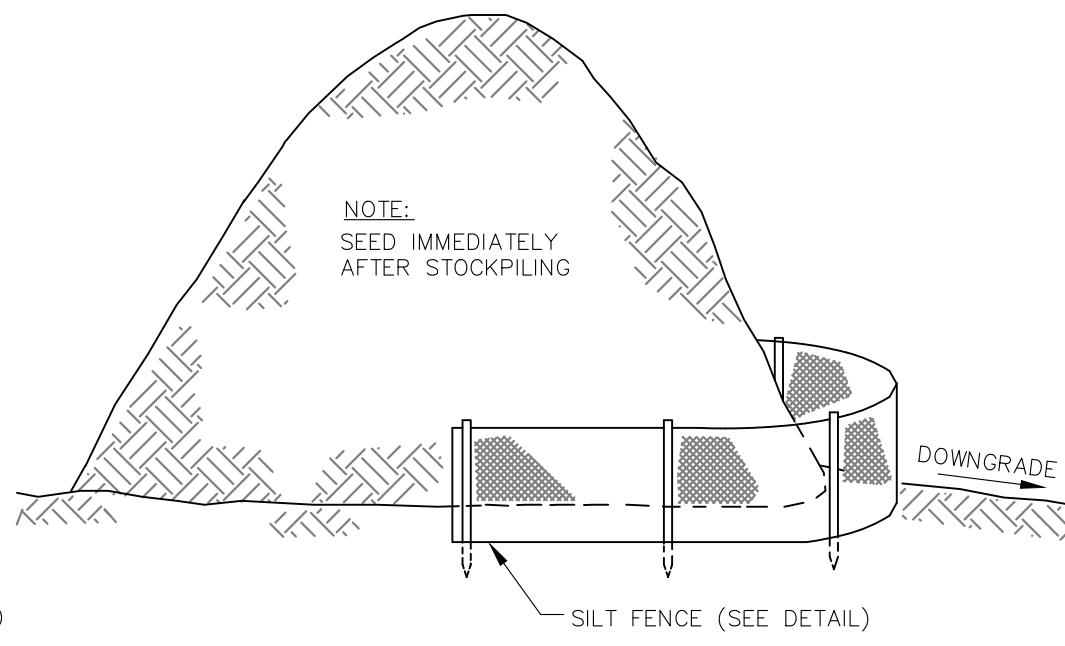


SILT FENCE DETAIL

N.T.S.

Fence posts shall be spaced 8 feet center-to-center or closer. They shall extend at least 2 feet into the ground and extend at least 2 feet above ground (Manual Fig. 23-2). Posts shall be constructed of hardwood with a minimum diameter thickness of 1 1/2 inches.

A geotextile fabric, recommended for such use by the manufacturer, shall be buried at least 6 inches deep in the ground. The fabric shall extend at least 2 feet above the ground. The fabric must be securely fastened to the posts using a system consisting of metal fasteners (nails or staples) and a high strength reinforcement material (nylon webbing, grommets, washers etc.) placed between the fastener and the geotextile fabric. The fastening system shall resist tearing away from the post. The fabric shall incorporate a drawstring in the top portion of the fence for added strength.



TYPICAL TOPSOIL STOCKPILE

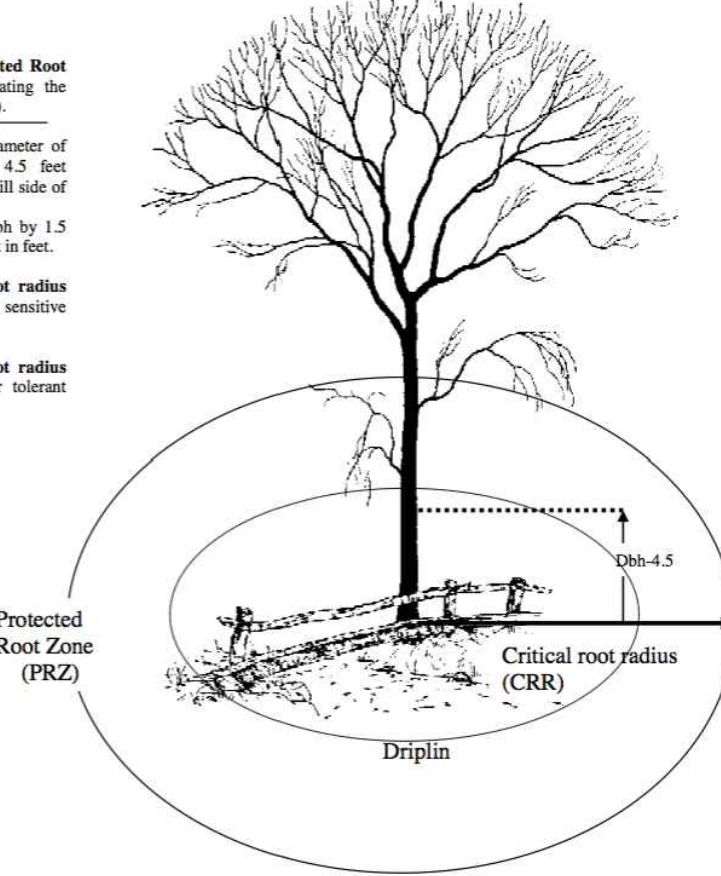
N.T.S.

Estimate a tree's Protected Root Zone (PRZ) by calculating the Critical Root Radius (CRR).

1. Measure the DBH (diameter of tree at breast height, 4.5 feet above ground on the uphill side of tree) in inches.
2. Multiply measured DBH by 1.5 or 1.0. Express the result in feet.

DBH x 1.5: Critical root radius for older, unhealthy, or sensitive species.

DBH x 1.0: Critical root radius for younger, healthy or tolerant species.



1. Protecting Trees from Construction Damage: A Homeowner's Guide, Cary R. Johnson, University Of Minnesota Extension Service, Saint Paul, MN, 1999.

ROOT PROTECTION DURING CONSTRUCTION GUIDE

N.T.S.



STANDARDS FOR TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION  
(rev. 2017)

Standards for Soil Erosion and Sediment Control in New Jersey

January 2014

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

Definition

Establishment of temporary vegetative cover on soils exposed for periods of two to 6 months which are not being graded, not under active construction or not scheduled for permanent seeding within 60 days.

Purpose

To temporarily stabilize the soil and reduce damage from wind and water erosion until permanent stabilization is accomplished.

Water Quality Enhancement

Provides temporary protection against the impacts of wind and rain, slows the over land movement of stormwater runoff, increases infiltration and retains soil and nutrients on site, protecting streams or other stormwater conveyances.

Where Applicable

On exposed soils that have the potential for causing off-site environmental damage.

Methods and Materials

- Site Preparation
  - Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring. All grading should be done in accordance with Standards for Land Grading, pg. 19-1.
  - Install needed erosion control practices or facilities such as diversions, grade stabilization structures, channel stabilization measures, sediment basins, and waterways. See Standards 11 through 42.
  - Immediately prior to seeding, the surface should be scarified 6" to 12" where there has been soil compaction. **This practice is permissible only where there is no danger to underground utilities (cables, irrigation systems, etc.)**
- Seedbed Preparation
  - Apply ground limestone and fertilizer according to soil test recommendations such as offered by Rutgers Co-operative Extension. Soil sample mailers are available from the local Rutgers Cooperative Extension offices. Fertilizer shall be applied at the rate of 500 pounds per acre or 11 pounds per 1,000 square feet of 10-20-10 or equivalent with 50% water insoluble nitrogen unless a soil test indicates otherwise.
  - Work lime and fertilizer into the soil as nearly as practical to a depth of 4 inches with a disc, springtooth harrow, or other suitable equipment. The final harrowing or disking operation should

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be on the general contour. Continue tillage until a reasonable uniform seedbed is prepared.

- Inspect seedbed just before seeding. If traffic has left the soil compacted, the area must be retitled in accordance with the above.
- Soils high in sulfides or having a pH of 4 or less refer to Standard for Management of High Acid Producing Soils, pg. 1-1.

3. Seeding

- Select seed from recommendations in Table 7-2.

TABLE 7-2

TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES AND DEPTH.

SEED SELECTIONS	SEEDING RATE (pounds)		OPTIMUM SEEDING DATE Based on Plant Hardiness Zone <sup>3</sup>			OPTIMUM SEED DEPTH <sup>4</sup> (inches)
	Per Acre	Per 1000 Sq. Ft.	ZONE 5b, 6a	ZONE 6b	ZONE 7a, b	
	COOL SEASON GRASSES					
1. Perennial ryegrass	100	1.0	3/15- 6/1- 8/1- 9/15	3/1- 5/15 8/15- 10/1	2/15- 5/1 8/15- 10/15	0.5
2. Spring oats	86	2.0	3/15- 6/1- 8/1- 9/15	3/1- 5/15 8/15- 10/1	2/15- 5/1 8/15- 10/15	1.0
3. Winter Barley	96	2.2	8/1- 9/15	8/15- 10/1	8/15- 10/15	1.0
4. Annual ryegrass	100	1.0	3/15- 6/1- 8/1- 9/15	3/15- 6/1 8/1- 9/15	2/15- 5/1 8/15- 10/15	0.5
5. Winter Cereal Rye	112	2.8	8/1 - 11/1	8/1 - 11/15	8/1 - 12/15	1.0
WARM SEASON GRASSES						
6. Pearl millet	20	0.5	6/1-8/1	5/15- 8/15	5/1-9/1	1.0

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7. Millet (German or Hungarian)	30	0.7	6/1-8/1	5/15-8/15	5/1-9/1	1.0
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- Seeding rate for warm season grass, selections 5 - 7 shall be adjusted to reflect the amount of Pure Line Seed (PLS) as determined by a germination test result. No adjustment is required for cool season grasses.
- May be planted throughout summer if soil moisture is adequate or seeded area can be irrigated.
- Plant Hardiness Zone (see figure 7-1, pg. 7-4.)
- Twice the depth for sandy soils

- Conventional Seeding. Apply seed uniformly by hand, cyclone (centrifugal) seeder, drop seeder, drill or cultipacker seeder. Except for drilled, hydroseeded or cultipacked seedings, seed shall be incorporated into the soil, to a depth of 1/4 to 1/2 inch, by raking or dragging. Depth of seed placement may be 1/4 inch deeper on coarse textured soil.

- Hydroseeding is a broadcast seeding method usually involving a truck or trailer mounted tank, with an agitation system and hydraulic pump for mixing seed, water and fertilizer and spraying the mix onto the prepared seedbed. Mulch shall not be included in the tank with seed. Short fibered mulch may be applied with a hydroseeder following seeding (also see Section IV Mulching) Hydroseeding is not a preferred seeding method because seed and fertilizer are applied to the surface and not incorporated into the soil. Poor seed to soil contact occurs reducing seed germination and growth. Hydroseeding may be used for areas too steep for conventional equipment to traverse or too obstructed with rocks, stumps, etc.

- After seeding, firming the soil with a corrugated roller will assure good seed-to-soil contact, restore capillarity, and improve seedling emergence. This is the preferred method. When performed on the contour, sheet erosion will be minimized and water conservation on site will be maximized.

4. Mulching

Mulching is required on all seeding. Mulch will insure against erosion before grass is established and will promote faster and earlier establishment. The existence of vegetation sufficient to control soil erosion shall be deemed compliance with this mulching requirement.

- Straw or Hay. Unrotted small grain straw, hay free of seeds, applied at the rate of 1-1/2 to 2 tons per acre (70 to 90 pounds per 1,000 square feet), except that where a crimp is used instead of a liquid mulch-binder (tackifying or adhesive agent), the rate of application is 3 tons per acre. Hay mulch is not recommended for establishing fine turf or lawns due to the presence of weed seed.

Application. Spread mulch uniformly by hand or mechanically so that approximately 95% of the soil surface will be covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 square feet sections and distribute 70 to 90 pounds within each section.

Anchoring shall be accomplished immediately after placement to minimize loss by wind or water. This may be done by one of the following methods, depending upon the size of the area, steepness of slopes, and costs.

- Peg and Twine. Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss-cross and a square pattern. Secure twine around each peg with two or more round turns.
- Mulch Nettings. Staple paper, jute, cotton, or plastic nettings to the soil surface. Use a degradable netting in areas to be mowed.

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- Crimper (mulch anchoring tool). A tractor-drawn implement, somewhat like a disc harrow, especially designed to push or cut some of the broadcast long fiber mulch 3 to 4 inches into the soil so as to anchor it and leave part standing upright. This technique is limited to areas traversable by a tractor, which must operate on the contour of slopes. Straw mulch rate must be 3 tons per acre. No tackifying or adhesive agent is required.
- Liquid Mulch-Binders. - May be used to anchor hay or straw mulch.

- Applications should be heavier at edges where wind may catch the mulch, in valleys, and at crests of banks. The remainder of the area should be uniform in appearance.
- Use one of the following:

- Organic and Vegetable Based Binders - Naturally occurring, powder based, hydrophilic materials when mixed with water formulates a gel and when applied to mulch under satisfactory curing conditions will form membraned networks of insoluble polymers. The vegetable gel shall be physiologically harmless and not result in a phytotoxic effect or impede growth of turfgrass. Use at rates and weather conditions as recommended by the manufacturer to anchor mulch materials. Many new products are available, some of which may need further evaluation for use in this state.
- Synthetic Binders - High polymer synthetic emulsion, miscible with water when diluted and following application to mulch, drying and curing shall no longer be soluble or dispersible in water. It shall be applied at rates recommended by the manufacturer and remain tacky until germination of grass.

Note: All names give above are registered trade names. This does not constitute a commendation of these products to the exclusion of other products.

- Wood-fiber or paper-fiber mulch. Shall be made from wood, plant fibers or paper containing no growth or germination inhibiting materials, used at the rate of 1,500 pounds per acre (or as recommended by the project manufacturer) and may be applied by a hydroseeder. This mulch shall not be mixed in the tank with seed. Use is limited to flatter slopes and during optimum seeding periods in spring and fall.
- Pelletized mulch. Compressed and extruded paper and/or wood fiber product, which may contain co-polymers, tackifiers, fertilizers and coloring agents. The dry pellets, when applied to a seeded area and watered, form a mulch mat. Pelletized mulch shall be applied in accordance with the manufacturers recommendations. Mulch may be applied by hand or mechanical spreader at the rate of 60-75 lbs./1,000 square feet and activated with 0.2 to 0.4 inches of water. This material has been found to be beneficial for use on small lawn or renovation areas, seeded areas where weed-seed free mulch is desired or on sites where straw mulch and tackifier agent are not practical or desirable.

Applying the full 0.2 to 0.4 inches of water after spreading pelletized mulch on the seed bed is extremely important for sufficient activation and expansion of the mulch to provide soil coverage.

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STANDARDS FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION  
(rev. 2017)

Standards for Soil Erosion and Sediment Control in New Jersey

January 2014

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

Definition

Establishment of permanent vegetative cover on exposed soils where perennial vegetation is needed for long-term protection.

Purpose

To permanently stabilize the soil, ensuring conservation of soil and water, and to enhance the environment.

Water Quality Enhancement

Slows the over-land movement of stormwater runoff, increases infiltration and retains soil and nutrients on site, protecting streams or other stormwater conveyances.

Where Applicable

On exposed soils that have a potential for causing off-site environmental damage.

Methods and Materials

- Site Preparation
  - Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring. All grading should be done in accordance with Standard for Land Grading.
  - Immediately prior to seeding and topsoil application, the subsoil shall be evaluated for compaction in accordance with the Standard for Land Grading.
  - Topsoil should be handled only when it is dry enough to work without damaging the soil structure. A uniform application to a depth of 5 inches (unsettled) is required on all sites. Topsoil shall be amended with organic matter, as needed, in accordance with the Standard for Topsoiling.
  - Install needed erosion control practices or facilities such as diversions, grade-stabilization structures, channel stabilization measures, sediment basins, and waterways.
- Seedbed Preparation
  - Uniformly apply ground limestone and fertilizer to topsoil which has been spread and firmed, according to soil test recommendations such as offered by Rutgers Co-operative Extension Soil sample mailers are available from the local Rutgers Cooperative Extension offices (http://njaes.rutgers.edu/country/). Fertilizer shall be applied at the rate of 500 pounds per acre or 11 pounds per 1,000 square feet of 10-10-10 or equivalent with 50% water insoluble nitrogen unless a soil test indicates otherwise and incorporated into the surface 4 inches. If fertilizer is not incorporated, apply one-half the rate described above during seedbed preparation and repeat another one-half rate application of the same fertilizer within 3 to 5 weeks after seeding.

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a disc, spring-tooth harrow, or other suitable equipment. The final harrowing or disking operation should be on the general contour. Continue tillage until a reasonable uniform seedbed is prepared.

- High acid producing soil. Soils having a pH of 4 or less or containing iron sulfide shall be covered with a minimum of 12 inches of soil having a pH of 5 or more before initiating seedbed preparation. See Standard for Management of High Acid-Producing Soils for specific requirements.

3. Seeding

- Select a mixture from Table 4-3 or use a mixture recommended by Rutgers Cooperative Extension or Natural Resources Conservation Service which is approved by the Soil Conservation District. Seed germination shall have been tested within 12 months of the planting date. No seed shall be accepted with a germination test date more than 12 months old unless retested.

- Seeding rates specified are required when a report of compliance is requested prior to actual establishment of permanent vegetation. Up to 50% reduction in rates may be used when permanent vegetation is established prior to a report of compliance inspection. These rates apply to all methods of seeding. Establishing permanent vegetation means 80% vegetative coverage with the specified seed mixture for the seeded area and mowed once.
- Warm-season mixtures are grasses and legumes which maximize growth at high temperatures, generally 85° F and above. See Table 4-3 mixtures 1 to 7. Planting rates for warm-season grasses shall be the amount of Pure Live Seed (PLS) as determined by germination testing results.
- Cool-season mixtures are grasses and legumes which maximize growth at temperatures below 85° F. Many grasses become active at 65° F. See Table 4-3, mixtures 8-20. Adjustment of planting rates to compensate for the amount of PLS is not required for cool season grasses.

- Conventional Seeding is performed by applying seed uniformly by hand, cyclone (centrifugal) seeder, drop seeder, drill or cultipacker seeder. Except for drilled, hydroseeded or cultipacked seedings, seed shall be incorporated into the soil within 24 hours of seedbed preparation to a depth of 1/4 to 1/2 inch, by raking or dragging. Depth of seed placement may be 1/4 inch deeper on coarse-textured soil.

- After seeding, firming the soil with a corrugated roller will assure good seed-to-soil contact, restore capillarity, and improve seedling emergence. This is the preferred method. When performed on the contour, sheet erosion will be minimized and water conservation on site will be maximized.

- Hydroseeding is a broadcast seeding method usually involving a truck, or trailer-mounted tank, with an agitation system and hydraulic pump for mixing seed, water and fertilizer and spraying the mix onto the prepared seedbed. **Mulch shall not be included in the tank with seed.** Short-fibered mulch may be applied with a hydroseeder following seeding (also see Section 4-Mulching below). Hydroseeding is not a preferred seeding method because seed and fertilizer are applied to the surface and not incorporated into the soil. When poor seed to soil contact occurs, there is a reduced seed germination and growth.

4. Mulching

Mulching is required on all seeding. Mulch will protect against erosion before grass is established and will promote faster and earlier establishment. The existence of vegetation sufficient to control soil erosion shall

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be deemed compliance with this mulching requirement.

- Straw or Hay. Unrotted small grain straw, hay free of seeds, to be applied at the rate of 1-1/2 to 2 tons per acre (70 to 90 pounds per 1,000 square feet), except that where a crimp is used instead of a liquid mulch-binder (tackifying or adhesive agent), the rate of application is 3 tons per acre. Mulch chopper-blowers must not grind the mulch. Hay mulch is not recommended for establishing fine turf or lawns due to the presence of weed seed.

Application - Spread mulch uniformly by hand or mechanically so that at least 85% of the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 square feet sections and distribute 70 to 90 pounds within each section.

Anchoring shall be accomplished immediately after placement to minimize loss by wind or water. This may be done by one of the following methods, depending upon the size of the area, steepness of slopes, and costs.

- Peg and Twine. Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss-cross and a square pattern. Secure twine around each peg with two or more round turns.

- Mulch Nettings - Staple paper, jute, cotton, or plastic nettings to the soil surface. Use a degradable netting in areas to be mowed.

- Crimper (mulch anchoring crawler tool) - A tractor-drawn implement, somewhat like a disc harrow, especially designed to push or cut some of the broadcast long fiber mulch 3 to 4 inches into the soil so as to anchor it and leave part standing upright. This technique is limited to areas traversable by a tractor, which must operate on the contour of slopes. Straw mulch rate must be 3 tons per acre. No tackifying or adhesive agent is required.

- Liquid Mulch-Binders - May be used to anchor salt hay, hay or straw mulch.

- Applications should be heavier at edges where wind may catch the mulch, in valleys, and at crests of banks. The remainder of the area should be uniform in appearance.
- Use one of the following:

- Organic and Vegetable Based Binders - Naturally occurring, powder-based, hydrophilic materials when mixed with water formulates a gel and when applied to mulch under satisfactory curing conditions will form membraned networks of insoluble polymers. The vegetable gel shall be physiologically harmless and not result in a phytotoxic effect or impede growth of turf grass. Use at rates and weather conditions as recommended by the manufacturer to anchor mulch materials. Many new products are available, some of which may need further evaluation for use in this state.
- Synthetic Binders - High polymer synthetic emulsion, miscible with water when diluted and, following application of mulch, drying and curing, shall no longer be soluble or dispersible in water. Binder shall be applied at rates recommended by the manufacturer and remain tacky until germination of grass.

Note: All names given above are registered trade names. This does not constitute a recommendation of these products to the exclusion of other products.

- Wood-fiber or paper-fiber mulch - shall be made from wood, plant fibers or paper containing no

4-3

Return to TOC

Standards for Soil Erosion and Sediment Control in New Jersey

January 2014

growth or germination inhibiting materials, used at the rate of 1,500 pounds per acre (or as recommended by the product manufacturer) and may be applied by a hydroseeder. **Mulch shall not be mixed in the tank with seed.** Use is limited to flatter slopes and during optimum seeding periods in spring and fall.

- Pelletized mulch - compressed and extruded paper and/or wood fiber product, which may contain co-polymers, tackifiers, fertilizers, and coloring agents. The dry pellets, when applied to a seeded area and watered, form a mulch mat. Pelletized mulch shall be applied in accordance with the manufacturer's recommendations. Mulch may be applied by hand or mechanical spreader at the rate of 60-75 lbs./1,000 square feet and activated with 0.2 to 0.4 inches of water. This material has been found to be beneficial for use on small lawn or renovation areas, seeded areas where weed-seed free mulch is desired, or on sites where straw mulch and tackifier agent are not practical or desirable. Applying the full 0.2 to 0.4 inches of water after spreading pelletized mulch on the seed bed is extremely important for sufficient activation and expansion of the mulch to provide soil coverage.


- Irrigation (where feasible)

- Topdressing

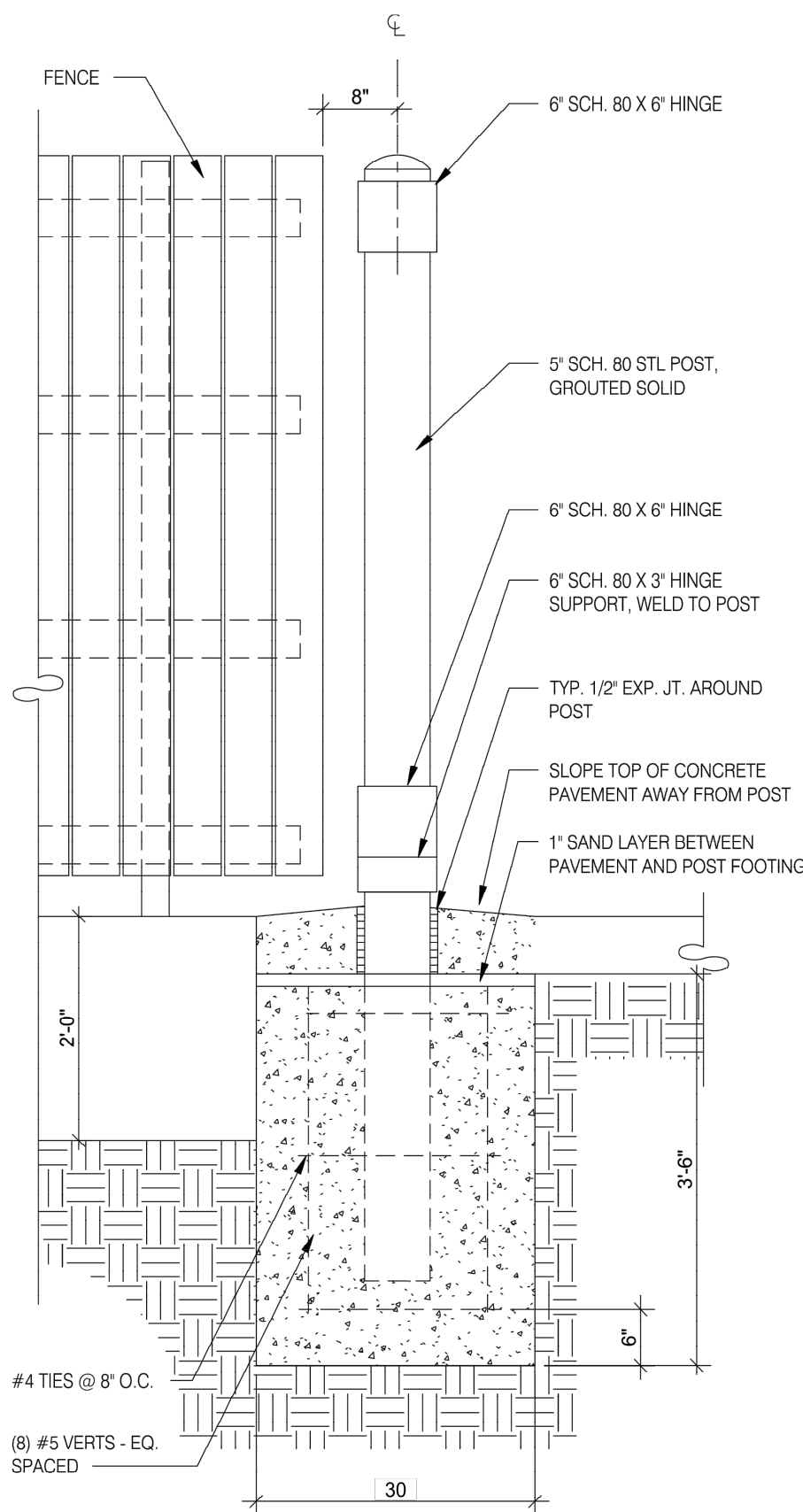
Since soil organic matter content and slow release nitrogen fertilizer (water insoluble) are prescribed in Section 2A - Seedbed Preparation in this Standard, no follow-up of topdressing is mandatory. An exception may be made where gross nitrogen deficiency exists in the soil to the extent that turf failure may develop. In that instance, topdress with 10-10-10 or equivalent at 300 pounds per acre or 7 pounds per 1,000 square feet every 3 to 5 weeks until the gross nitrogen deficiency in the turf is ameliorated.

Establishing Permanent Vegetative Stabilization

The quality of permanent vegetation rests with the contractor. The timing of seeding, preparing the seedbed, applying nutrients, mulch and other management are essential. The seed application rates in Table 4-3 are required when a Report of Compliance is requested prior to actual establishment of permanent vegetation. Up to 50% reduction in application rates may be used when permanent vegetation is established prior to requesting a Report of Compliance from the district. These rates apply to all methods of seeding. **Establishing permanent vegetation means 80% vegetative cover (of the seeded species) and mowed once.** Note this designation of mowed once does not guarantee the permanency of the turf should other maintenance factors be neglected or otherwise mismanaged.

NO.	DATE	DESCRIPTION
PRELIMINARY & FINAL MAJOR SITE PLAN 2720 U.S. HIGHWAY 130 SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS BLOCK 224, LOT 1 TAX MAP SHEET NO. 60 TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY, NEW JERSEY		
 <b>EAST POINT</b> ENGINEERING, LLC NEW JERSEY CERTIFICATE OF AUTHORIZATION NO. 246A2B169BDD		11 South Main Street Marlboro, NJ 07746 Tel: 732.577.0180
MARD S. LEBER N.J. PROFESSIONAL ENGINEER, LICENSE NO. 24604452400 N.J. PROFESSIONAL PLANNER, LICENSE NO. 33LIC0589600		DATE: 01-24-22 SCALE: N/A PROJECT NUMBER: 21-4722 CHECKED BY: BNP
01-24-22		SHEET NO. 9 OF 15





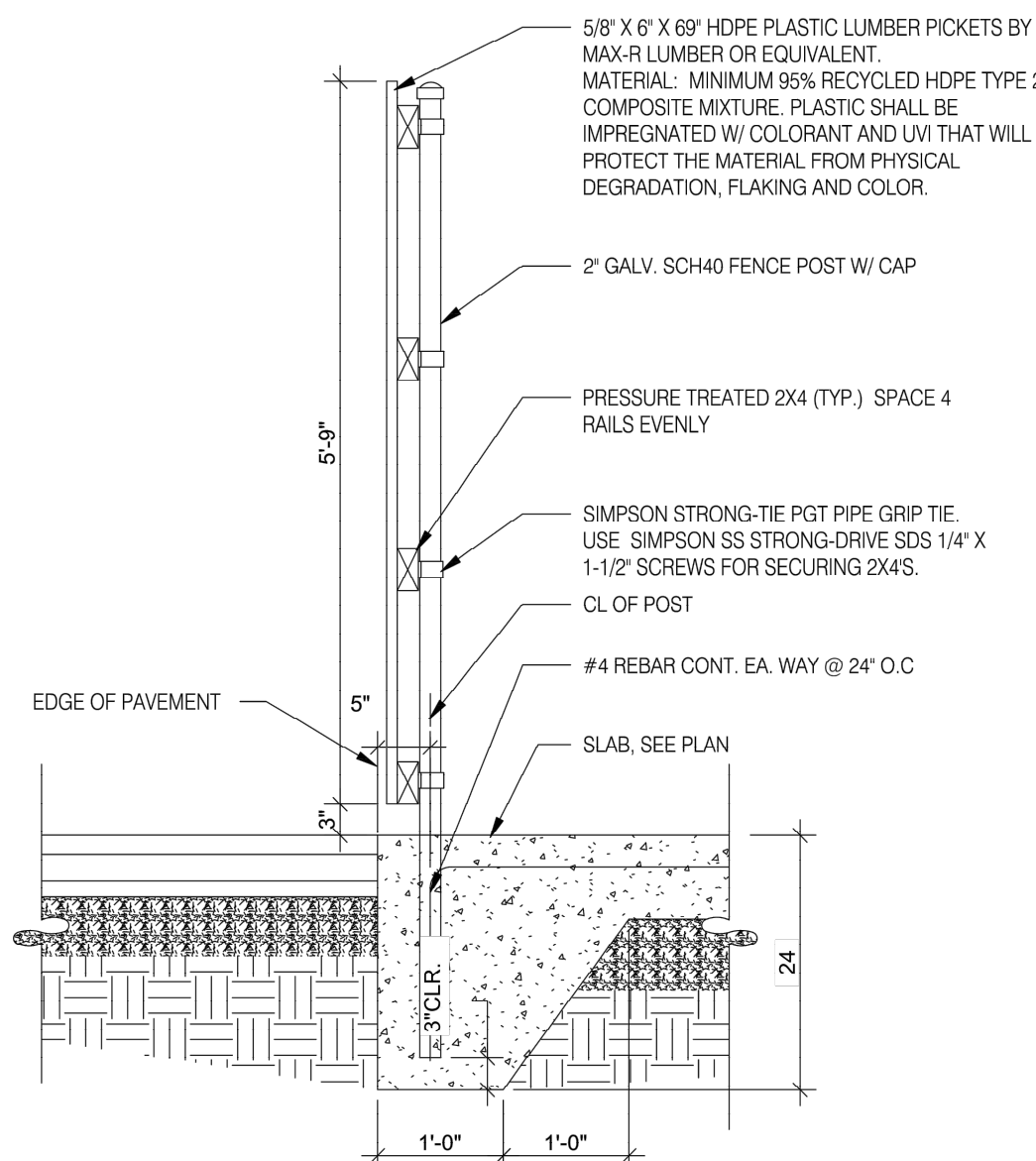
**GATE POST FOOTING** 3/4" = 1'-0" **H**

GATE HARDWARE: ALL HARDWARE AND ACCESSORIES SHALL BE HEAVY GALVANIZED.

GATE STOP: MUSHROOM TYPE OR FLUSH PLATE WITH ANCHORS SET IN CONCRETE TO ENGAGE THE CENTER DROP ROD OR PLUNGER BAR.

GATE NOTES: (4) EQUAL WIDE x 6'-0" HIGH MTL. GATES, TYPE B' 1 1/2" DECKING, 22GA. W/ T.S. 1 X 1 1875 BAR CROSS BRACING WELD AND GRIND SMOOTH ALL CONNECTIONS. TYP. PRIME AND PAINT ALL STEEL COMPONENTS.

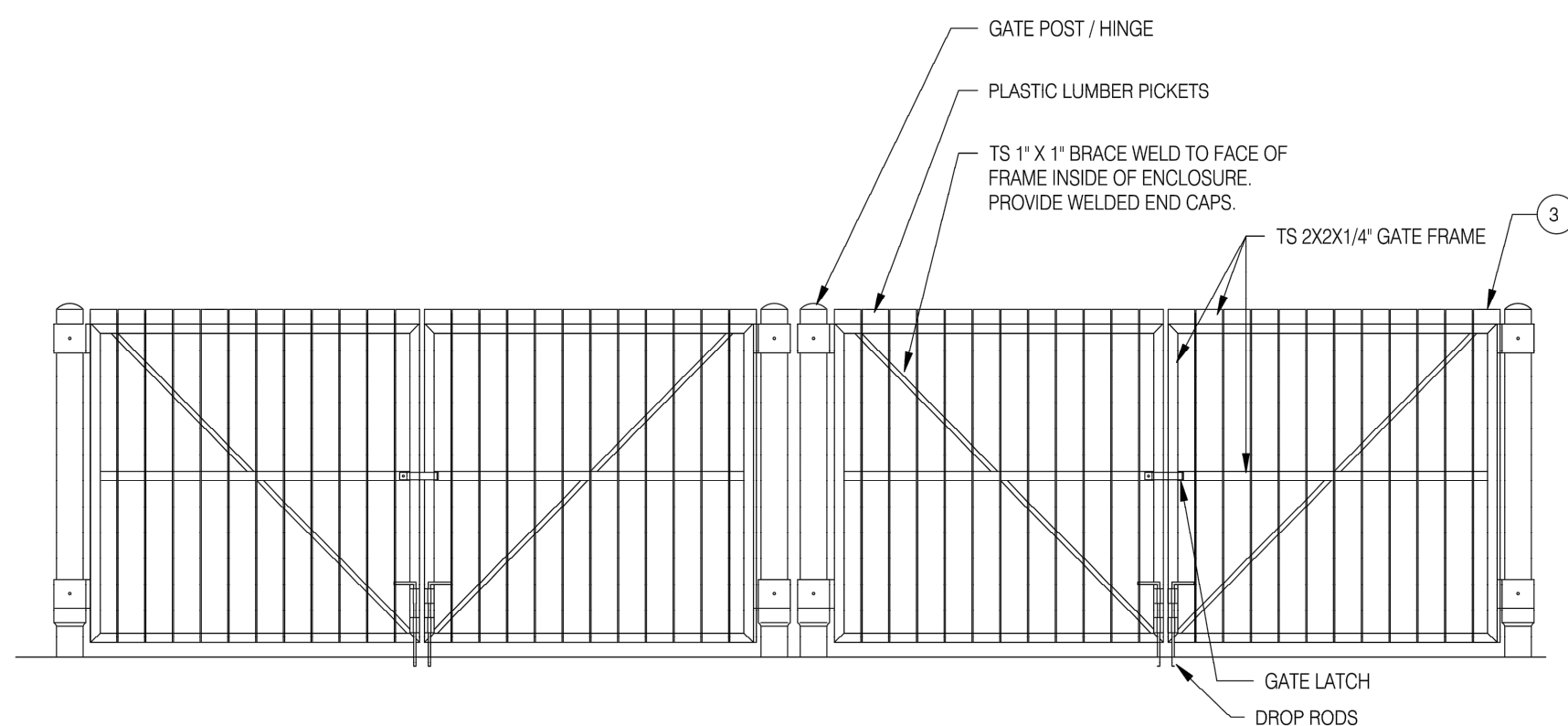
**ENCLOSURE NOTES** N.T.S. **G**



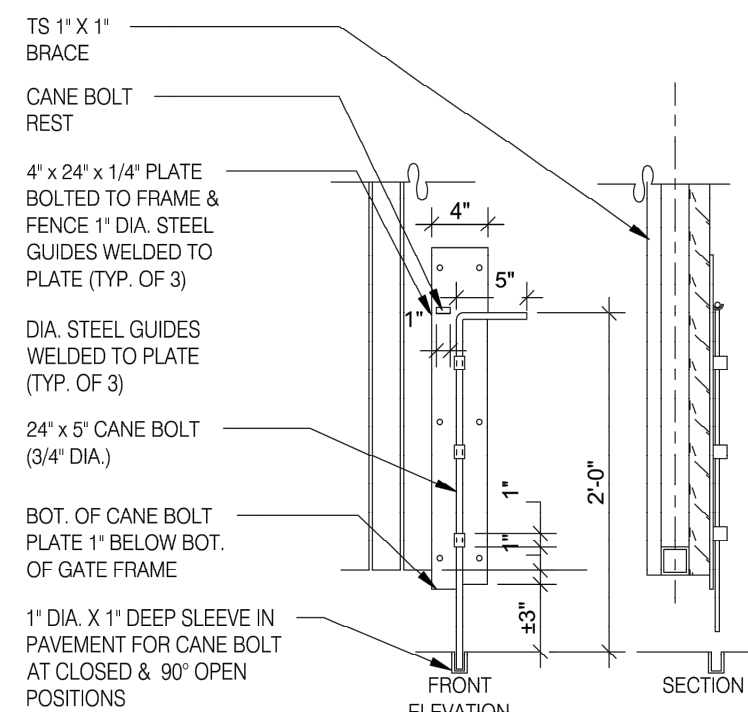
**FENCE SECTION** 3/4" = 1'-0" **F**

SYMBOL	AREA	MANUFACTURER	COLOR
①	GATE FRAME COLOR	SHERWIN WILLIAMS	SW 7055 ENDURING BRONZE
②	PIPE BOLLARDS	SHERWIN WILLIAMS	CAUTION YELLOW
③	HOPPE LUMBER	MAX. R	LIGHT BROWN TEXTURE

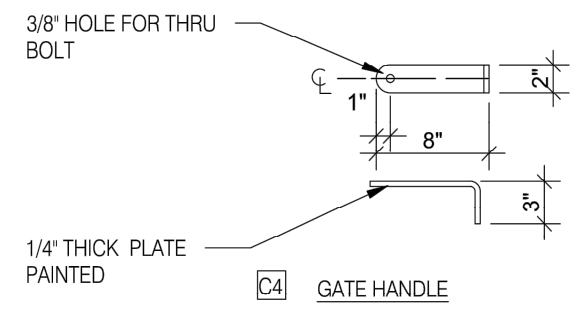
**SCHEDULE** N.T.S. **E**



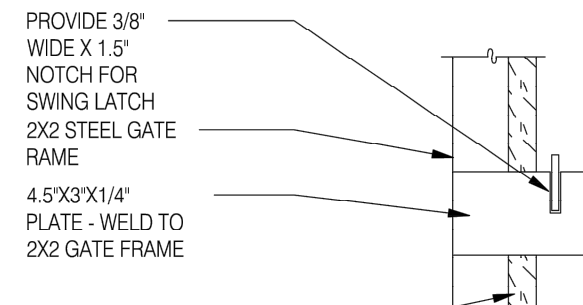
**FRONT ELEVATION** N.T.S. **D**



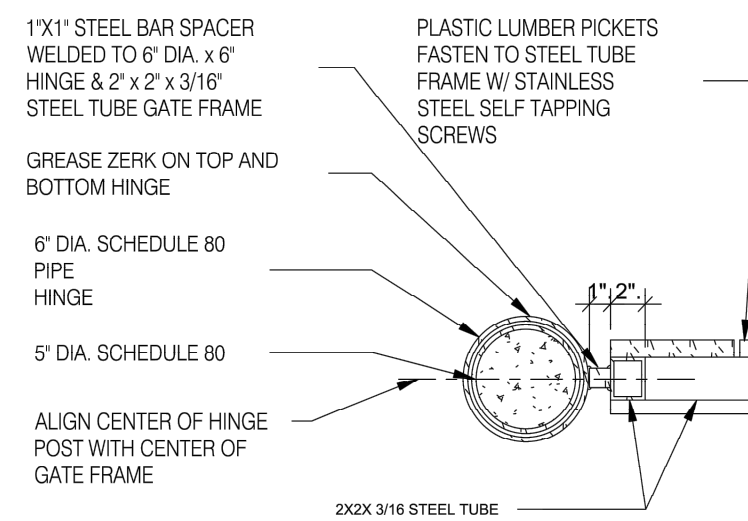
**CANE BOLT (1 PER GATE)**



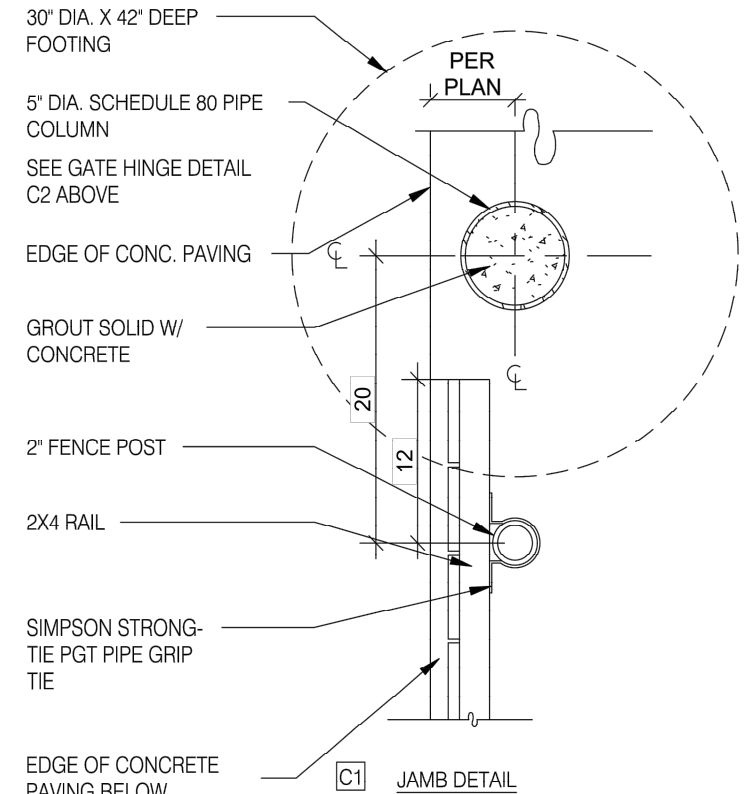
**GATE HANDLE**



**STOP PLATE SECTION**

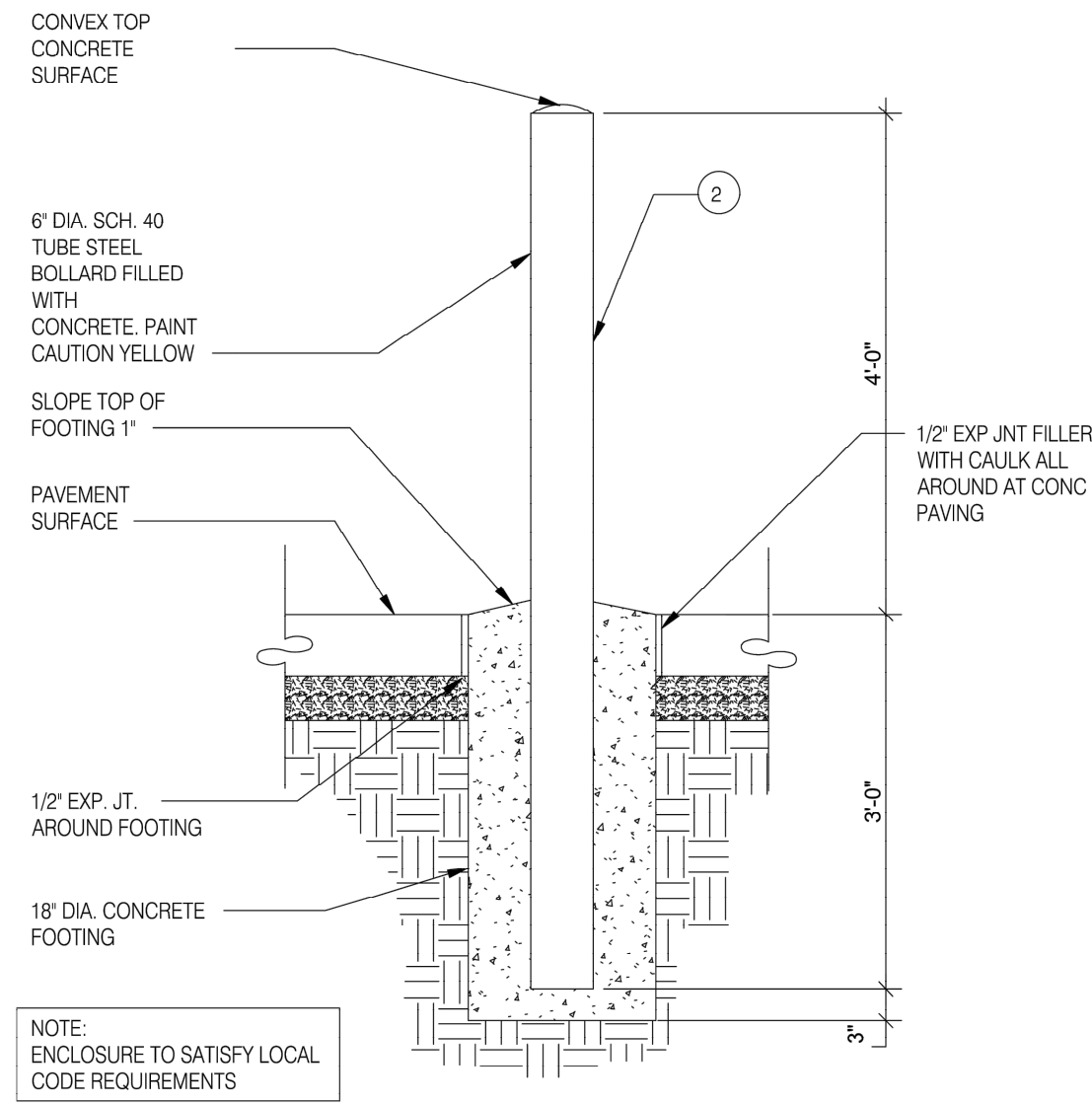


**GATE HINGE DETAIL PLAN SECTION**



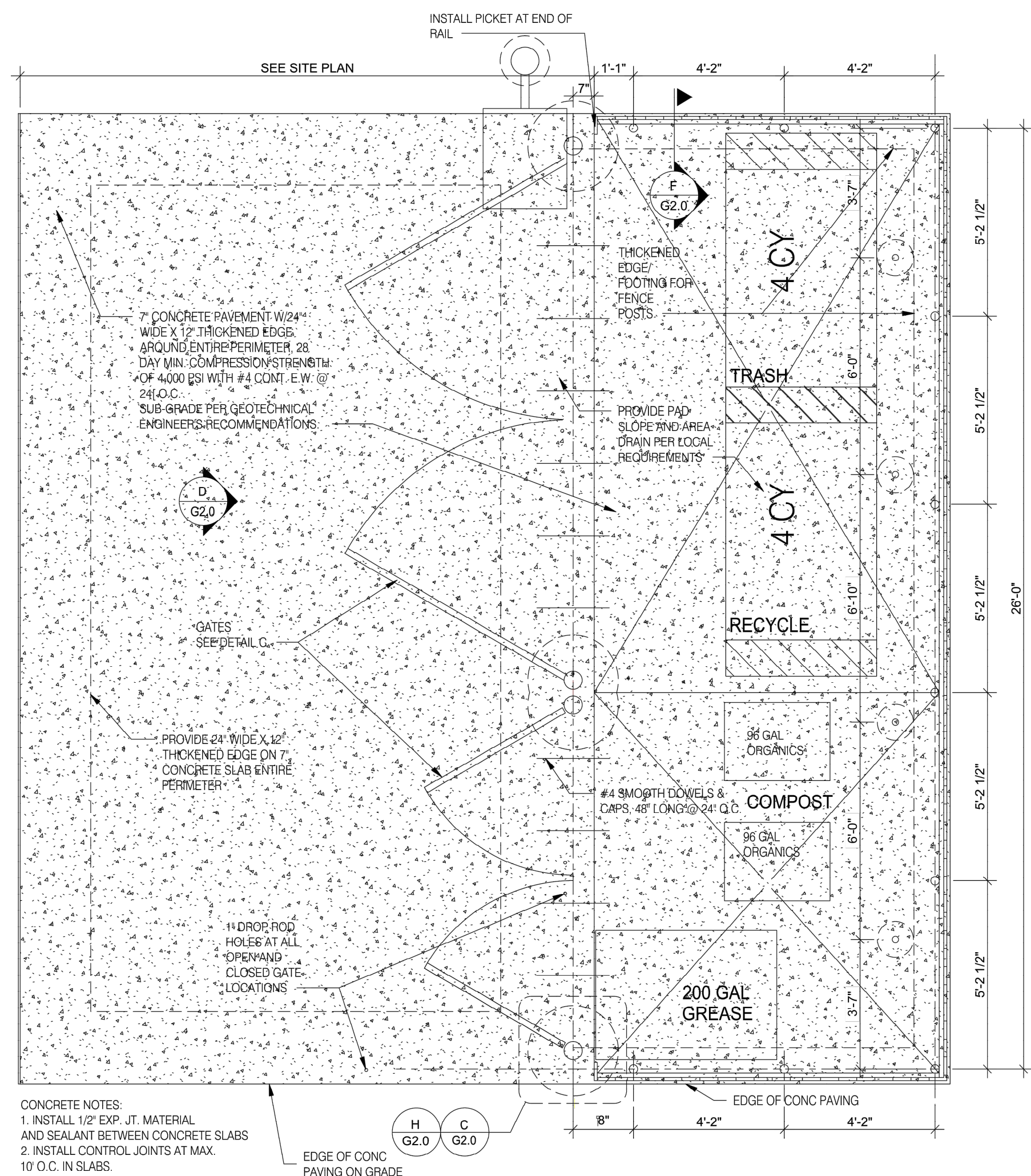
**JAMB DETAIL PLAN SECTION**

**GATE DETAILS** N.T.S. **C**



**GUARDBOLL DETAIL**

**TRASH ENCLOSURE BOLLARD DETAILS** 3/4" = 1'-0" **B**

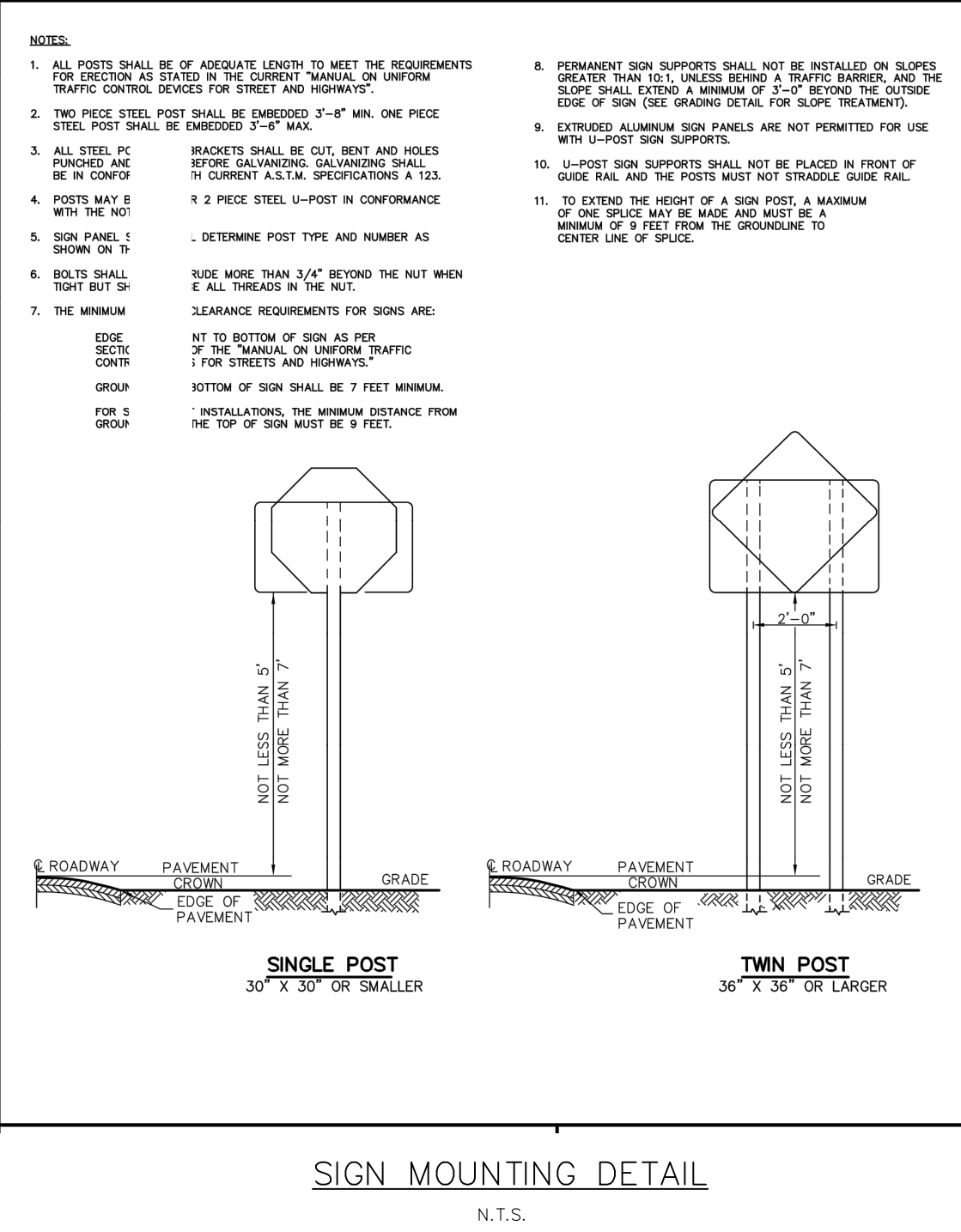
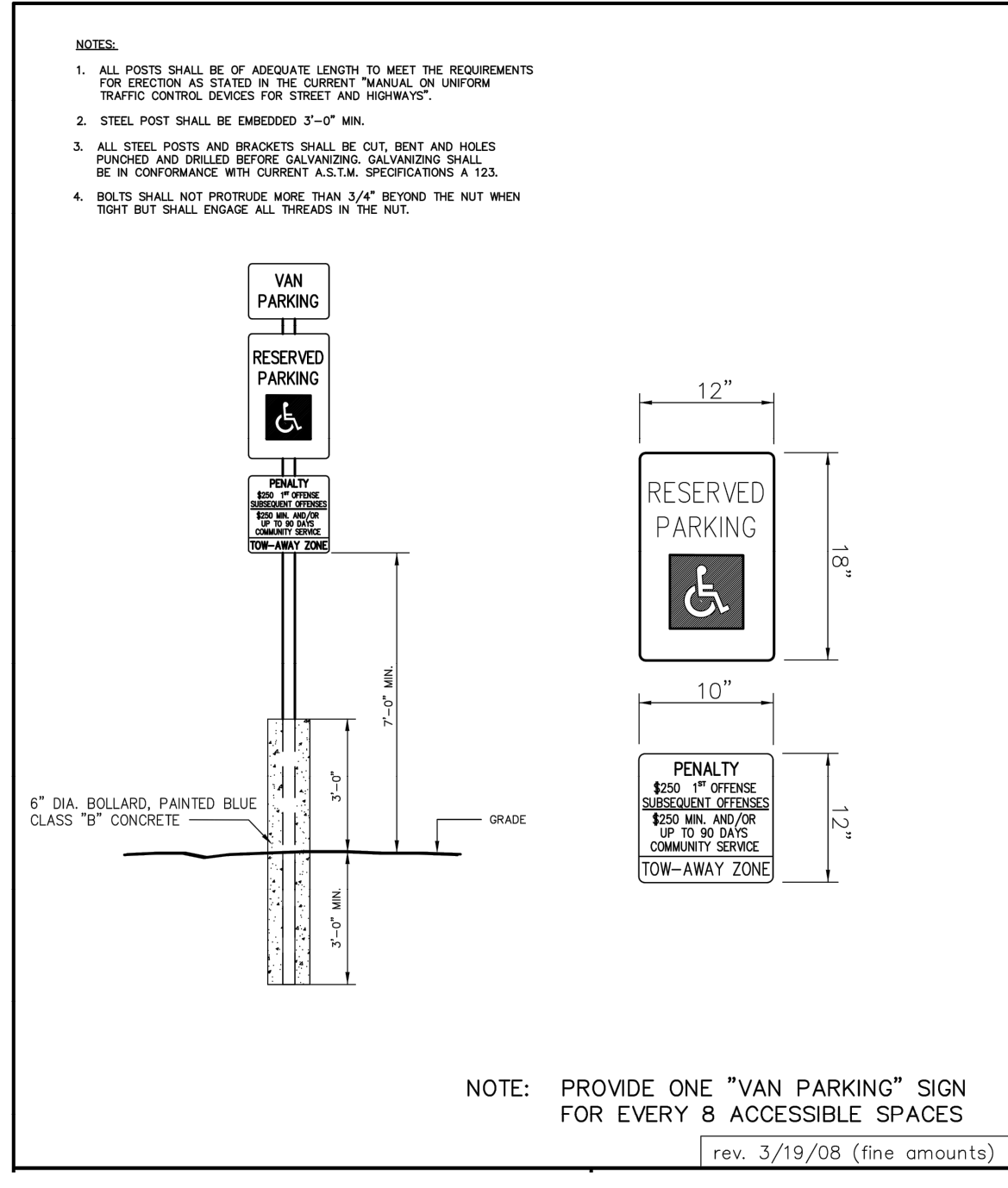
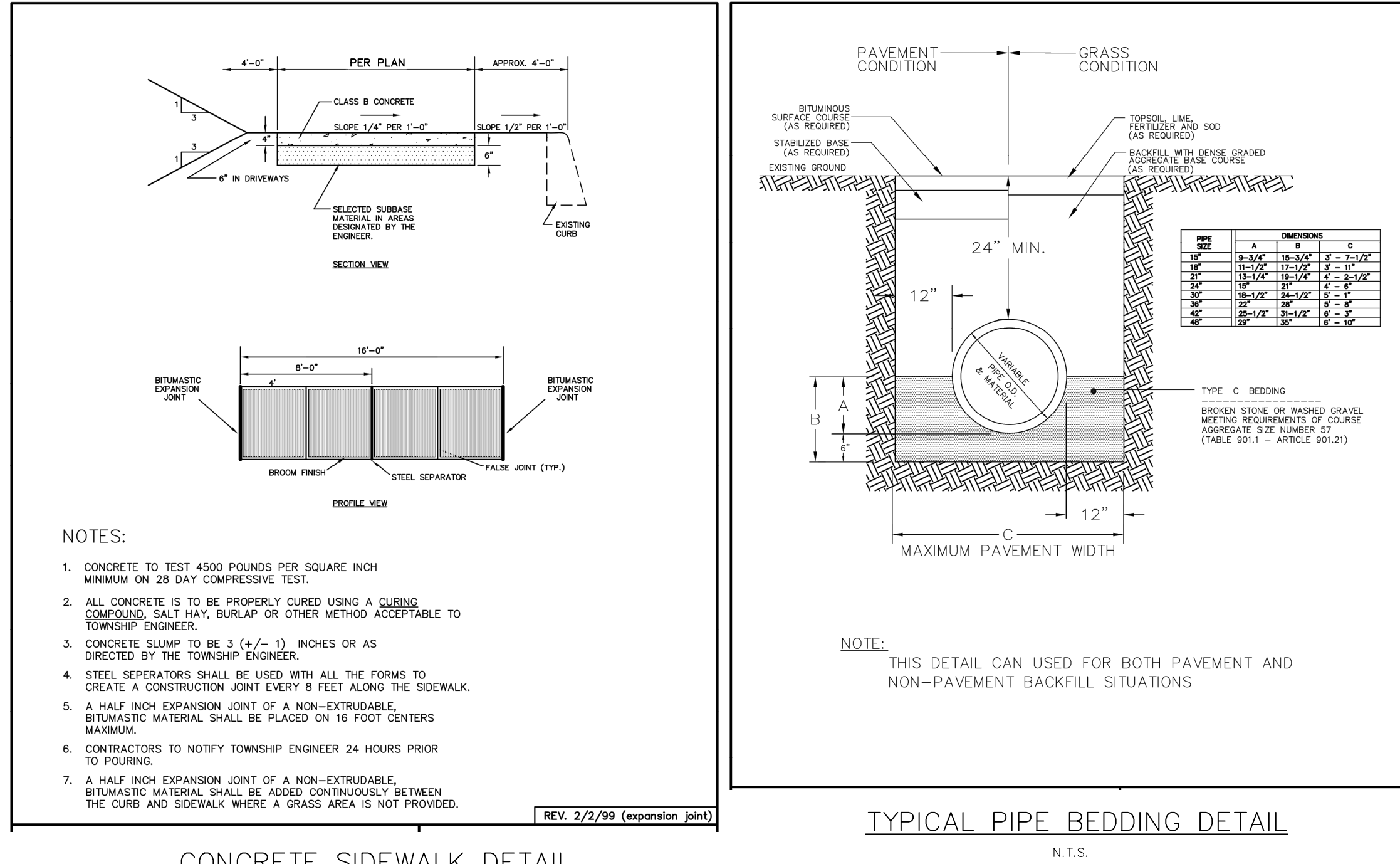
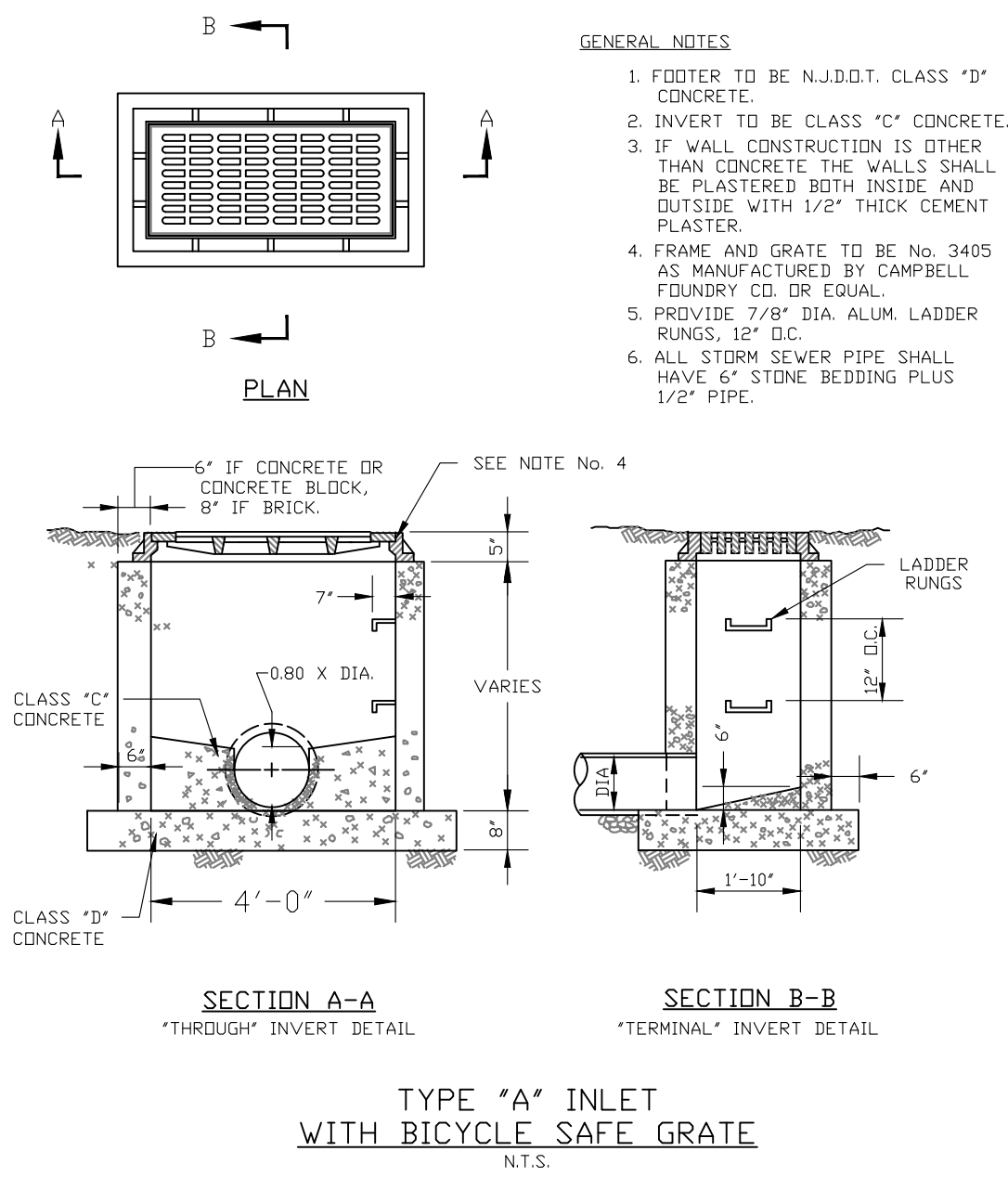


CONCRETE NOTES:  
1. INSTALL 1/2" EXP. JT. MATERIAL AND SEALANT BETWEEN CONCRETE SLABS  
2. INSTALL CONTROL JOINTS AT MAX. 10' O.C. IN SLABS.

**TRASH LAYOUT** 3/8" = 1'-0" **A**

NO.	DATE	DESCRIPTION
PRELIMINARY & FINAL MAJOR SITE PLAN 2720 U.S. HIGHWAY 130 TRASH ENCLOSURE DETAILS BLOCK 224, LOT 1 TAX MAP SHEET NO. 60 TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY, NEW JERSEY		
<b>EAST POINT</b> ENGINEERING, LLC NEW JERSEY CERTIFICATE OF AUTHORIZATION NO. 246A28169800 11 South Main Street Marlboro, NJ 07746 Tel: 732.577.0180		
DATE: 01-24-22	PROJECT NUMBER: 21-4722	
SCALE: N/A	CHECKED BY: BNP	
DATE: 01-24-22		
SHEET NO. 10 OF 15		





#### Product Information

MF5047

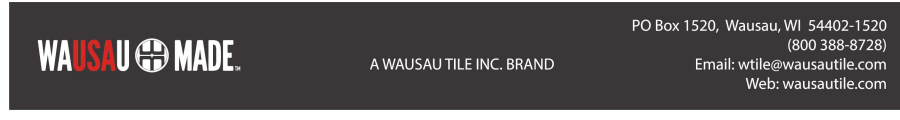


**Size:** 55"x1" 32" H  
**Weight:** 45 lbs.  
**Material:** Powder Coated Steel  
**Pattern:** Box Pattern  
**Features:** Full Panel

**\*\*Assembly Required\*\***  
**\*Panel Only Post Sold Separately\***

#### Powder Coating Options

- Standard Color Palette

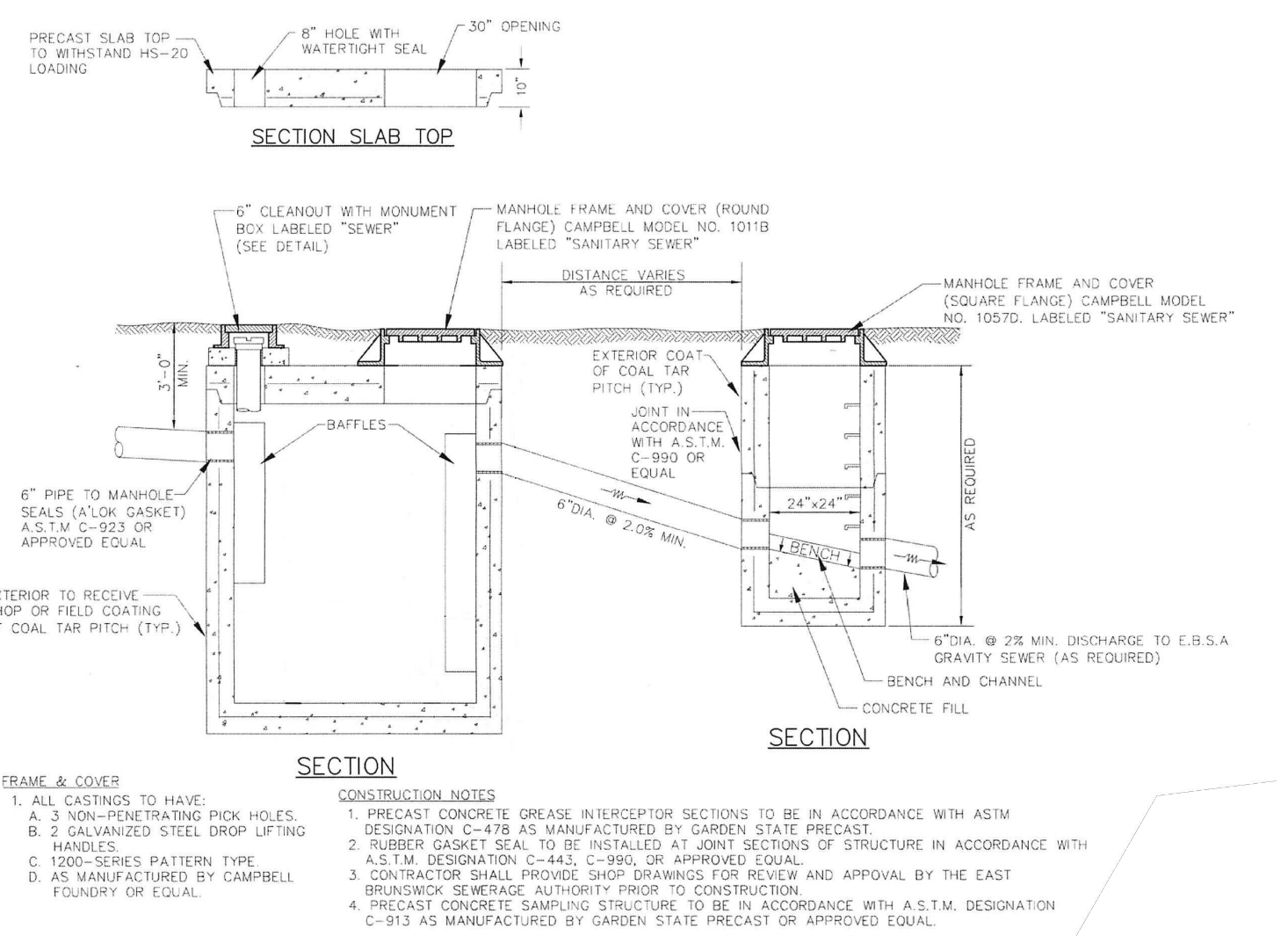


#### PATIO FENCE PANEL DETAIL

N.T.S.

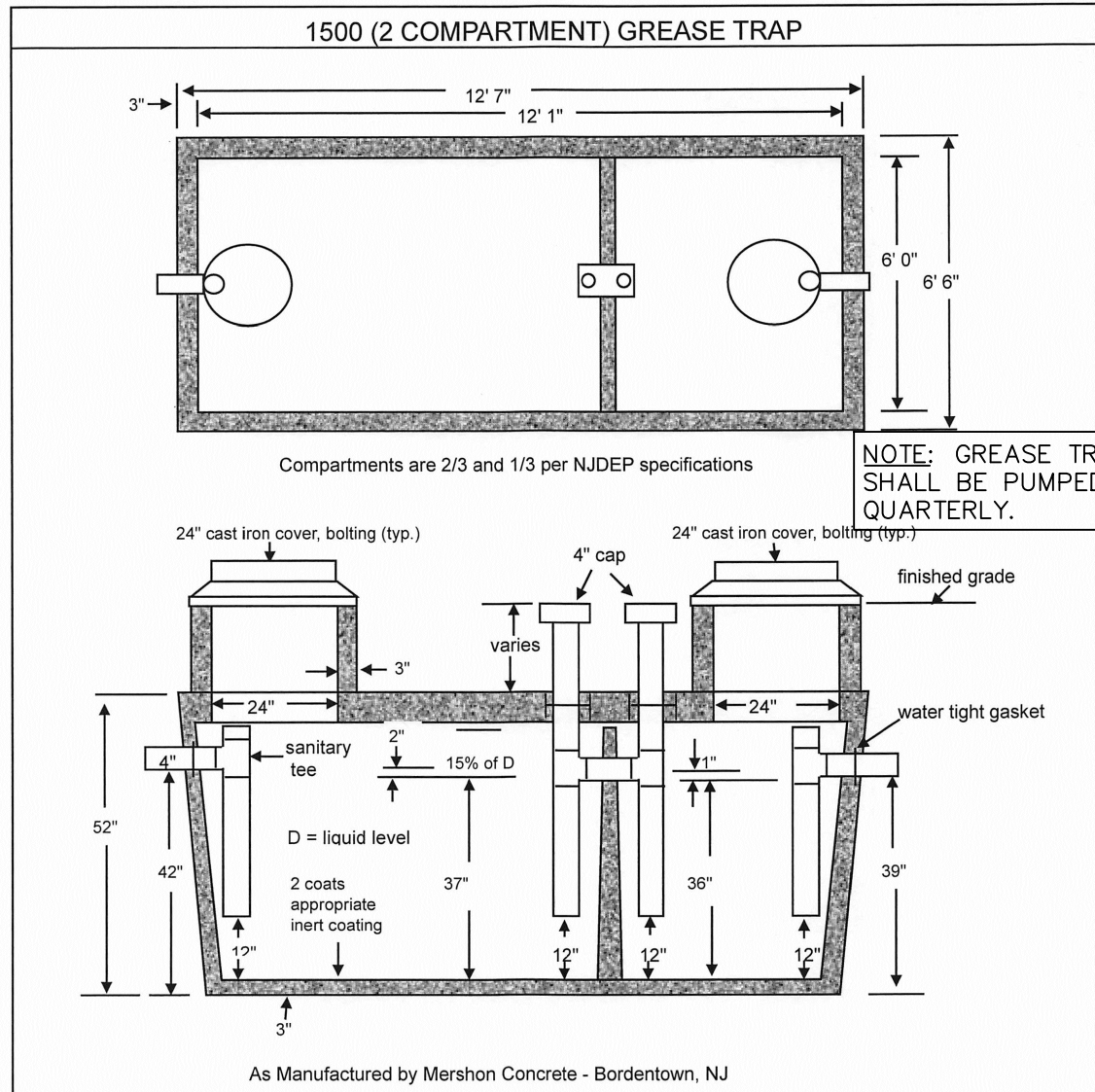
#### TYPICAL GREASE TRAP & SAMPLING MANHOLE DETAIL

N.T.S.



**NOTE:** REFER TO DETAIL (THIS SHEET) FOR ACTUAL GREASE TRAP SIZING.

Non-traffic bearing Cast iron manholes and extensions sold separately



Notes:	1. Tank is 4000 psi concrete - steel reinforced	
	2. Concrete conforms to ACI 318-16-4.5.1 and ACI 318-16-4.5.2	
	3. Tank complies with all requirements of NJDEP Chapter 199 7.9A-8.2	
	4. In an effort to continually improve our products, Mershon Concrete reserves the right to change product design without notice.	
	<b>MERSHON CONCRETE</b>	1-800-298-2150
	Rt. 130, PO Box 254 Bordentown, NJ 08505	1-800-MERSHON
		1-800-298-7969 / FAX#
		1500 (2 Comp) Grease Trap

#### 1,500 GAL. GREASE TRAP DETAIL

N.T.S.

NO.	DATE	DESCRIPTION
<b>PRELIMINARY &amp; FINAL MAJOR SITE PLAN</b> <b>2720 U.S. HIGHWAY 130</b> <b>CONSTRUCTION DETAILS</b> BLOCK 224, LOT 1 TAX MAP SHEET NO. 60 TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY, NEW JERSEY		
<b>EAST POINT ENGINEERING, LLC</b> NEW JERSEY CERTIFICATE OF AUTHORIZATION NO. 246A28169800 11 South Main Street Marlboro, NJ 07746 Tel: 732.577.0180		
DATE:	01-24-22	PROJECT NUMBER:
SCALE:	N/A	CHECKED BY:
		BNP
MARD S. LEBER N.J. PROFESSIONAL ENGINEER, LICENSE NO. 24604452400 N.J. PROFESSIONAL PLANNER, LICENSE NO. 336100598000		
01-24-22 DATE		
SHEET NO. 11 OF 15		



6'-11"

11'-4"

VARIES BY SITE

**TACO BELL**  
BREAKFAST

V-01.75

**PYLON SIGN  
WITH BREAKFAST**

SIGN AREA: 75 SF

OPTIONAL MESSAGING:

DELIVERY

DRIVE THRU

BELL

BELL

[illegible]

BELL

The technical drawing consists of two parts:

- FRONT VIEW:** A top-down perspective of the canopy's rectangular frame. It shows four corner brackets labeled "A" and "B". The overall width is dimensioned as 6'-8"
- SIDE ELEVATION:** A side profile view of the canopy. It shows a flat top surface supported by vertical posts. The height from the ground to the top edge is dimensioned as 10'-E. The bottom edge features a row of five circular components, likely wheels or casters.

Below the drawings, the following specifications are listed:

- V-200 EN
- CANOPY - PANTONE BLACK
- AWNING SIZE: 8'-0" X 8'-0" X 9'-0"
- AWNING LOCATION: SIDE ENTRY ELEVATION OF ENDORAIVR

BELL

Technical drawing of the Taco Bell logo. The logo consists of the words "TACO BELL" in a stylized, outlined font. Dimensions are provided for the logo's components:


- Overall width: 14.125" (368mm)
- Width of "TACO": 7.4375" (189mm)
- Width of "BELL": 6.6875" (169mm)
- Height of the letters: 3.9375" (100mm)
- Minimum clearances: 0.3125" (8mm) on the left and right, and 0.3125" (8mm) below the letters.

Source: <https://www.bls.gov/news.release/tables/t000101.htm>

**BELL**  
**NORTH BRUNSWICK, NJ**

**IMAGE**

Technical drawing of the back of the helmet. Dimensions are 2'-0" (610mm) in width and 3'-0" (152mm) in height. Three mounting locations are indicated by squares, with one labeled "MOUNTING LOCATION TIP". A curved line indicates the "CLAMP POLYCARBONATE CONNECTING BELT PIECE".



ISOMETRIC VIEW

2020.04.01

**BELL**  
**NORTH BRUNSWICK, NJ**

BUILDING DESIGN

**BELL**  
**NORTH BRUNSWICK, NJ**

No.	DATE	DESCRIPTION			
<div>PRELIMINARY &amp; FINAL MAJOR SITE PLAN</div> <div>2720 U.S. HIGHWAY 130</div> <div>SITE SIGNAGE DETAILS</div> <div>BLOCK 224, LOT 1</div> <div>TAX MAP SHEET NO. 6D</div> <div>TOWNSHIP OF NORTH BRUNSWICK</div> <div>MIDDLESEX COUNTY, NEW JERSEY</div>					
		<div>11 South Main Street</div> <div>Marlboro, NJ 07746</div> <div>Tel: 732.577.0180</div>			
		01-24-22		DATE	
MARD S. LEBER		DATE			
N.J. PROFESSIONAL PLANNER, LICENSE NO. 24GE04459240 N.J. PROFESSIONAL PLANNER, LICENSE NO. 38UD0098600					
		DATE: 01-24-22		PROJECT NUMBER: 21-472	
		SCALE: N/A		CHECKED BY: BNP	
		SHEET NO. 12 OF 15			



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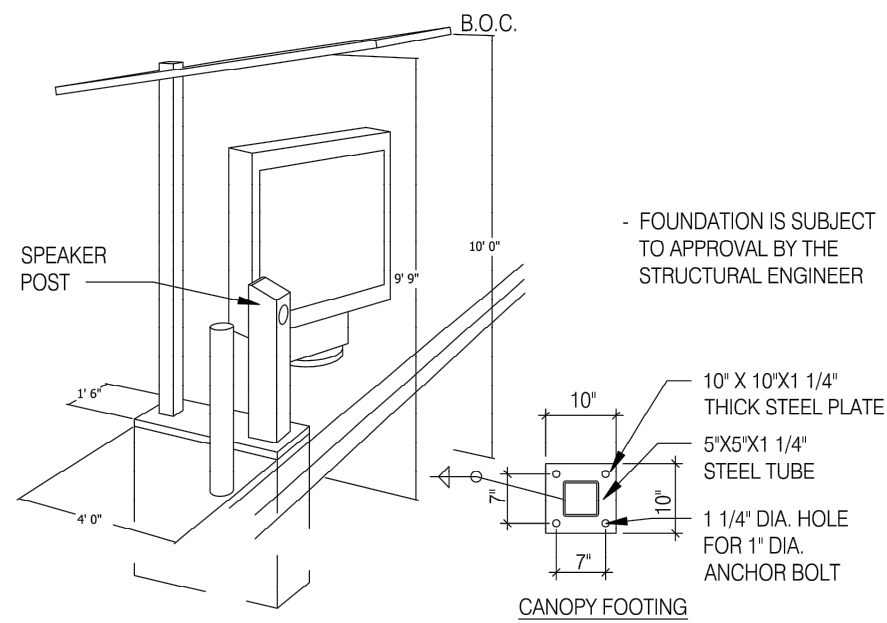
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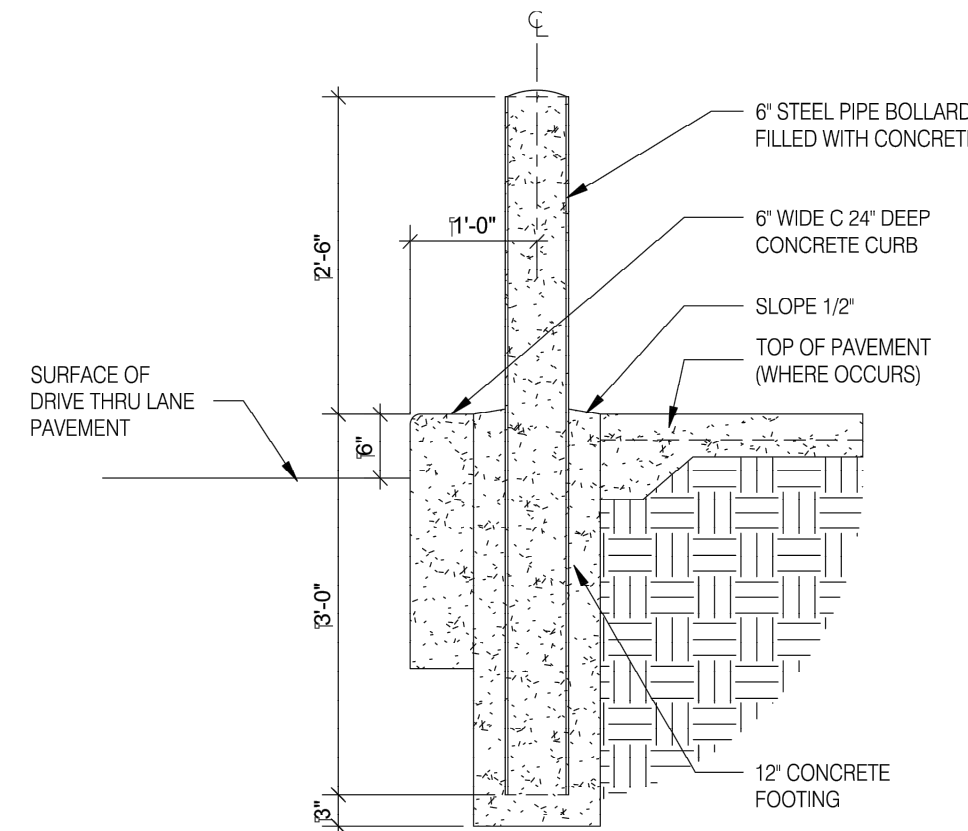
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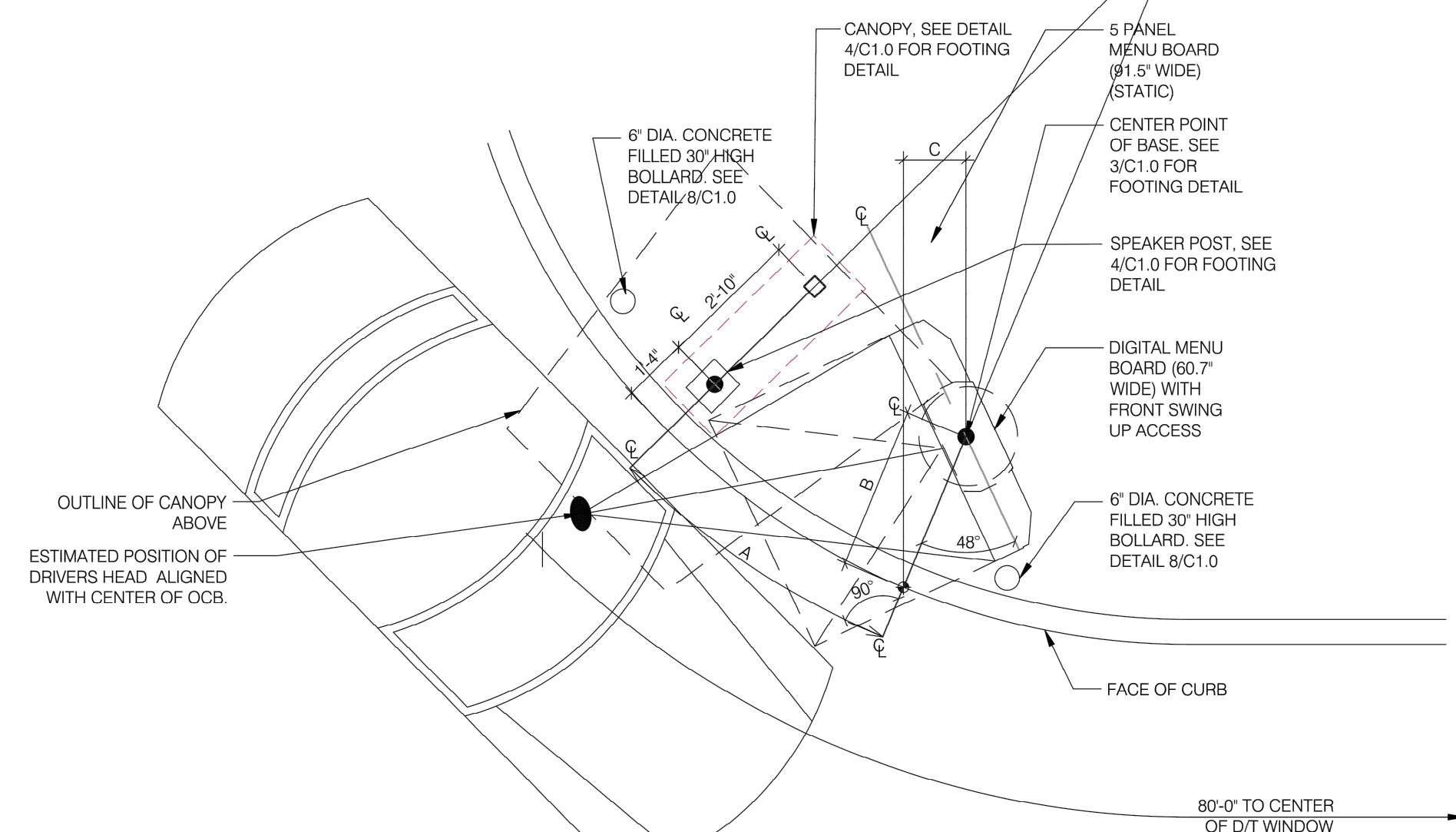
CANOPY AND SPEAKER FOOTING N.T.S. 9



BOLLARD AT DRIVE THROUGH N.T.S. 8

- NOTES
1. ALL AREAS OF THE MB MUST BE VISIBLE TO DRIVER LOCATED AT SPEAKER POST. ASSUME DRIVERS LOCATION IS 24" FROM FACE OF CURB, CENTERED ON SPEAKER POST.
  2. CENTER OF MB TO BE 5'-6" TO 9'-0" FROM DRIVERS POINT OF VIEW.
  3. PROVIDE (2) 1" CONDUITS FROM BUILDING TO SPEAKER POST FOR LOW VOLTAGE WIRING

CORNER DIMENSIONS				
RADIUS	A	B	C	MENU BRD DEG TILT
16'-0"	6'-3"	3'-3"	1'-3"	48°
18'-0"	5'-10"	3'-6"	1'-7"	52°
20'-0"	6'-11"	3'-7"	1'-9"	64°



ENLARGED MENU BOARD DETAIL @ CURVED CURB 3/8" = 1'-0" 6

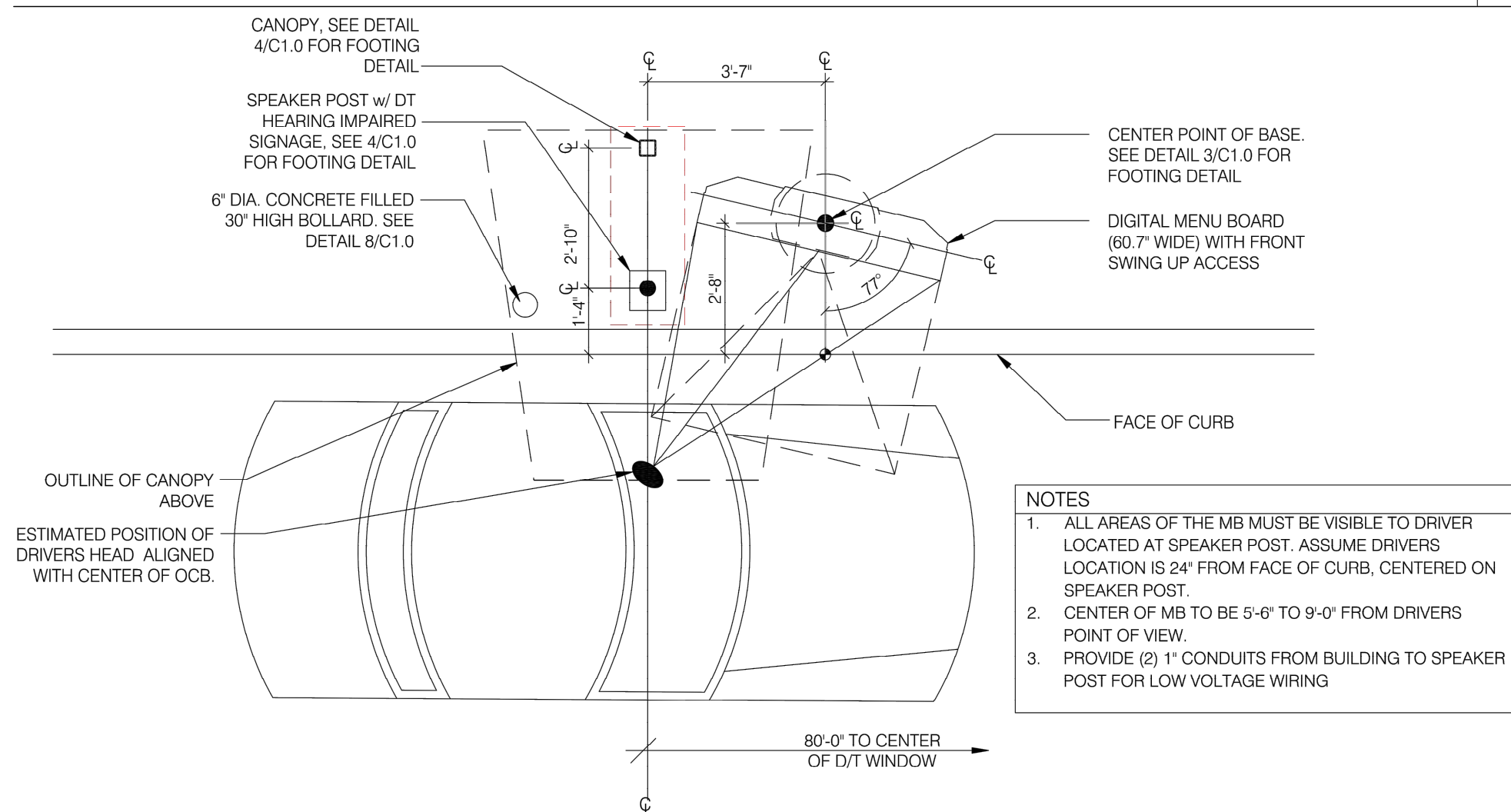
- SOW FOR DMB INSTALL AND VENDORS
- RSCS TO SUPPLY DMB AND CABLE
  - SIGN VENDOR TO SUPPLY ANCHOR BOLTS AND BOLT PATTERN TO GC.
  - SITE SURVEY - SIGN VENDOR
- NEW BUILD
1. TRENCHING/ CONDUIT - GC
  2. FORMING/ FOUNDATION/ ANCHOR BOLTS - GC
  3. DMB INSTALL - SIGN VENDOR
  4. DMB CABLE PULL - SIGN VENDOR
  5. DMB FINAL CONNECTION AND SYSTEM CHECK - SIGN VENDOR
  6. ELECTRICAL - PULL BY GC - DEDICATED CIRCUIT

- REMODEL (SUCCESSOR MANDATORY - MIDTERM OPTIONAL FOR FZ)
1. EXISTING FOOTING (SKIP TO STEP 4) - SIGN VENDOR
  2. TRENCHING/ CONDUIT - SIGN VENDOR
  3. FORMING/ FOUNDATION/ ANCHOR BOLTS (SKIP TO STEP 5) - SIGN VENDOR
  4. ANCHOR BOLTS - SIGN VENDOR
  5. DIGITAL MD INSTALL - SIGN VENDOR
  6. DMB CABLE PULL - SIGN VENDOR
  7. DMB FINAL CONNECTION AND SYSTEM CHECK - SIGN VENDOR

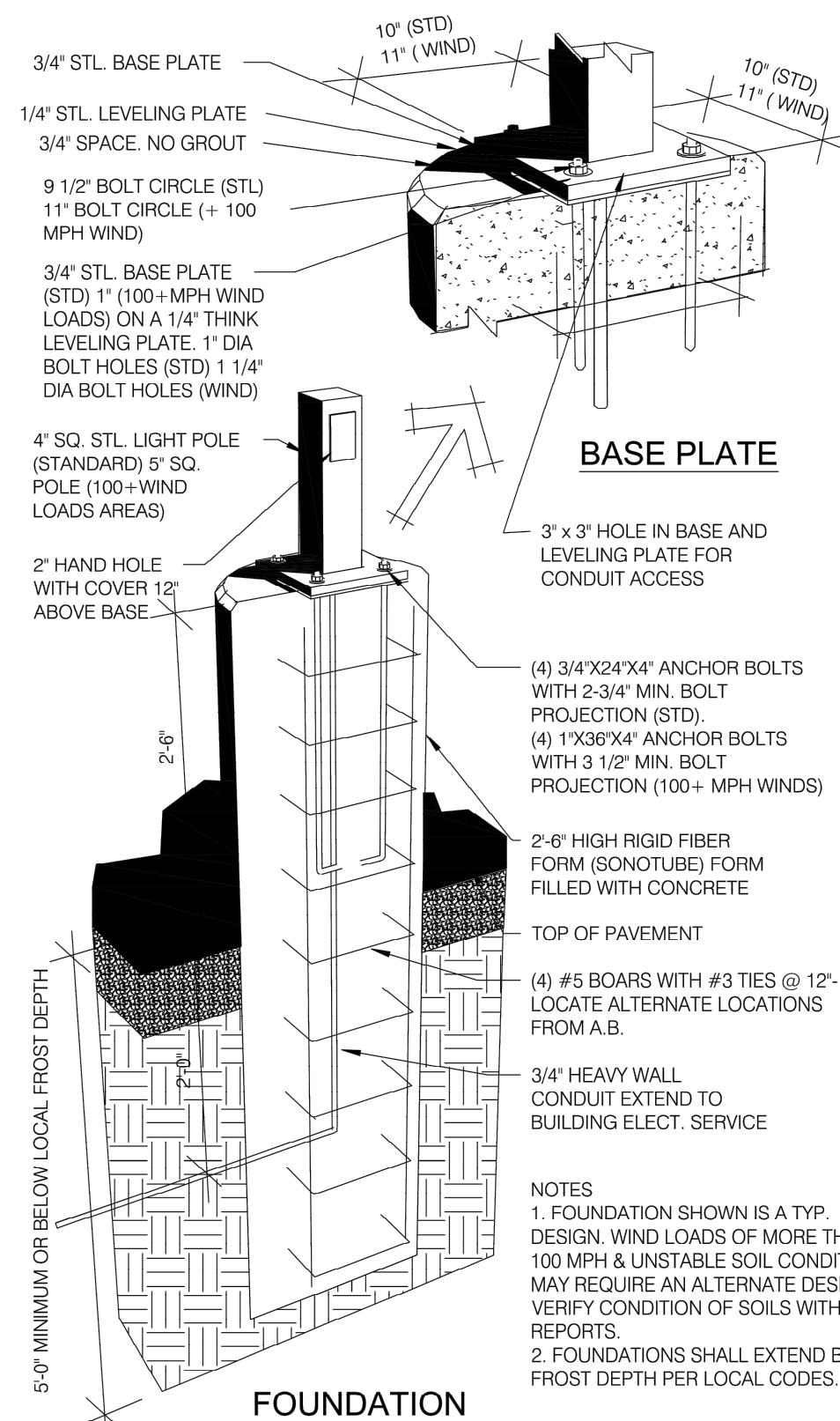
- JUST DMB INSTALL
0. PERMITTING - SIGN VENDOR
  1. EXISTING FOOTING (SKIP TO STEP 4) - SIGN VENDOR
  2. TRENCHING/ CONDUIT - SIGN VENDOR
  3. FORMING/ FOUNDATION/ ANCHOR BOLTS (SKIP TO STEP 5) - SIGN VENDOR
  4. ANCHOR BOLTS - SIGN VENDOR
  5. DIGITAL MD INSTALL - SIGN VENDOR
  6. DMB CABLE PULL - SIGN VENDOR
  7. DMB FINAL CONNECTION AND SYSTEM CHECK - SIGN VENDOR

	REMODEL	NEW BUILDING	RETROFIT
FOUNDATION IS FURTHER THAN 6"	RECOMMEND NEW FOUNDATION WORK FOUNDATION PERFORMED BY GC	N/A	RECOMMEND NEW FOUNDATION WORK PERFORMED BY GC
USING EXISTING FOUNDATION (ALTHOUGH NOT RECOMMENDED)	-	N/A	-
INTEGRATED CANOPY EXISTS	-	N/A	-
BOLLARDS NEEDED - DO NOT PLACE IN FRONT OF MENUBOARD	WORK PERFORMED BY SIGNAGE INSTALLER	WORK PERFORMED BY SIGNAGE INSTALLER	WORK PERFORMED BY SIGNAGE INSTALLER

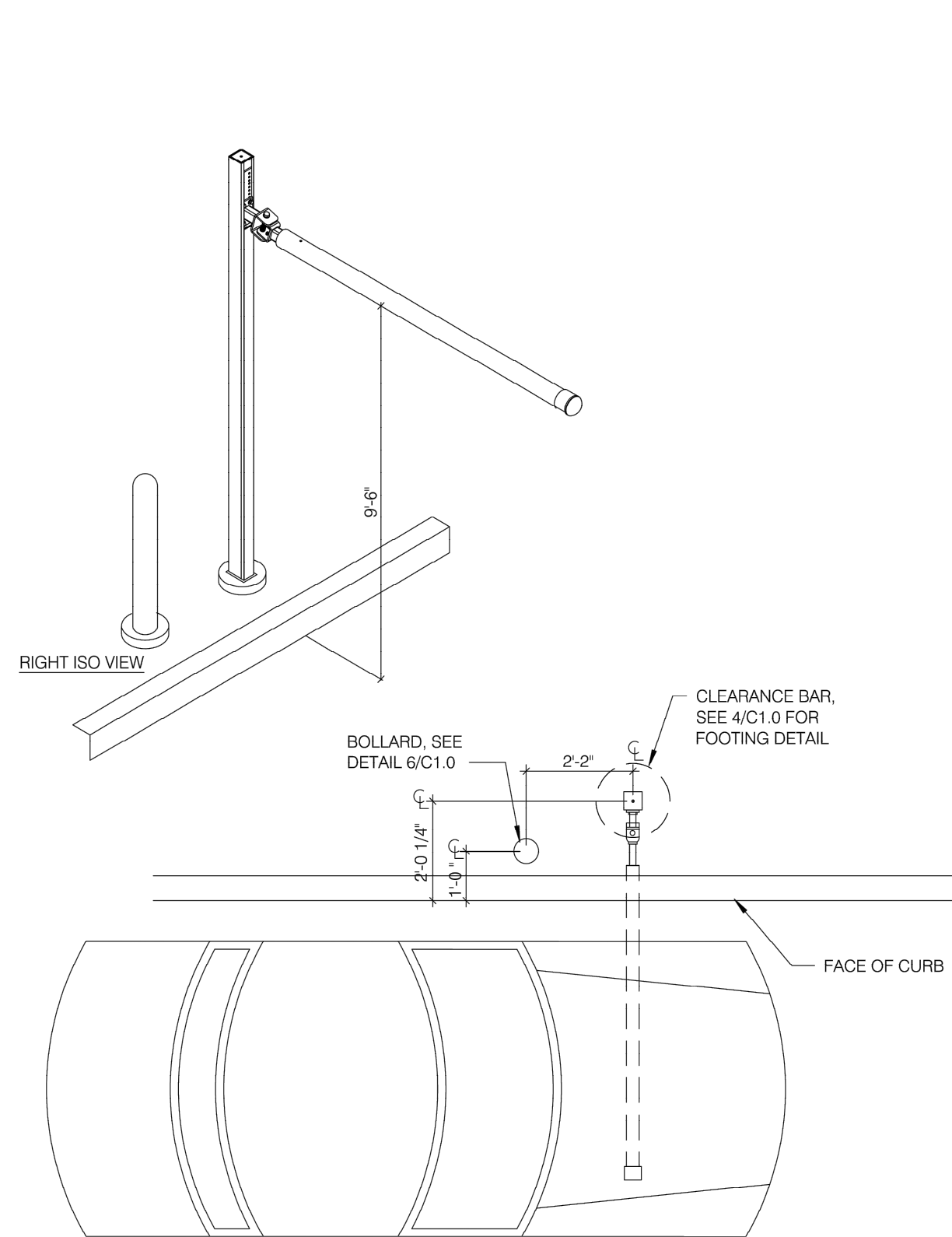
MENU BOARD SOW 1



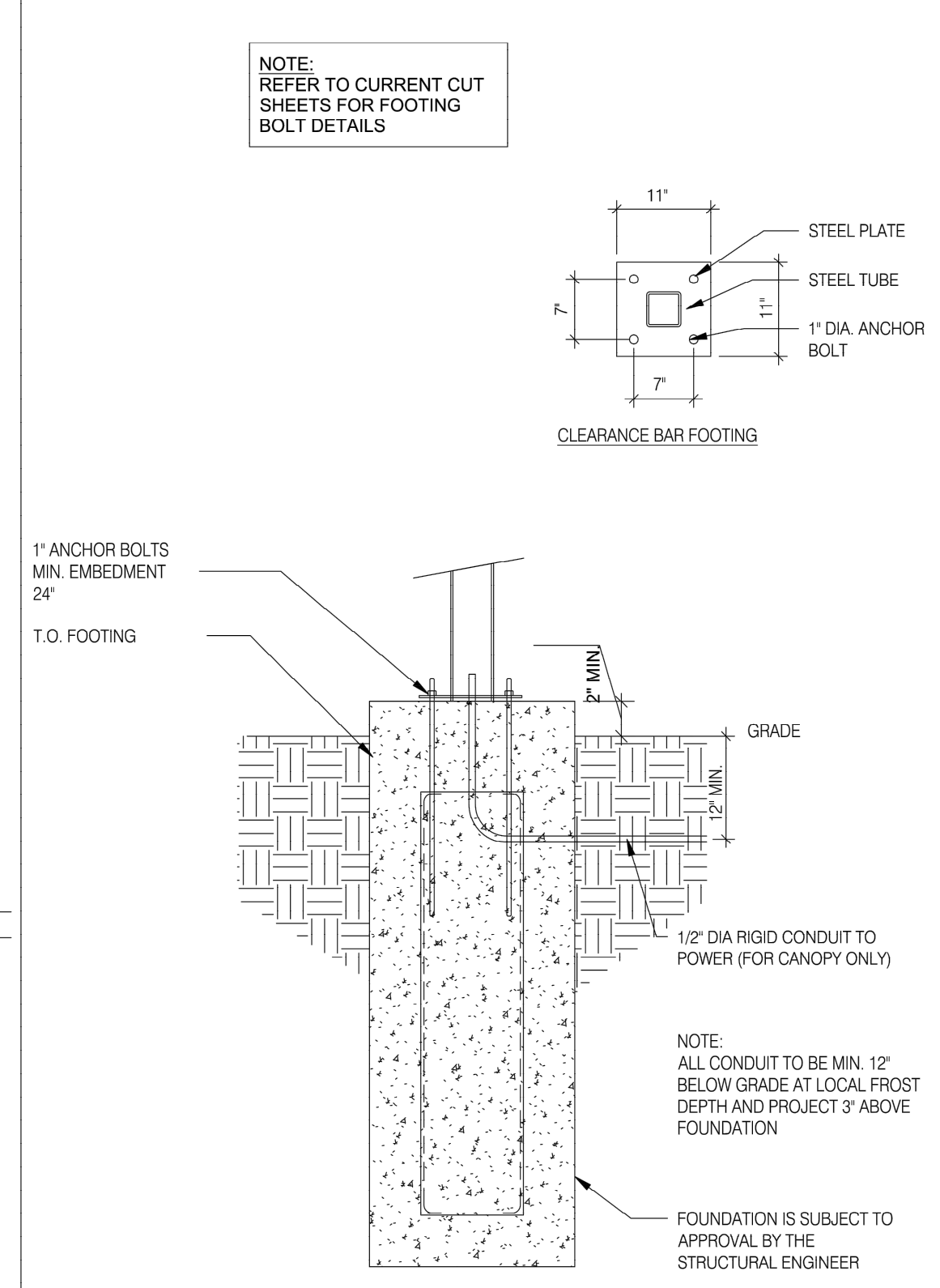
ENLARGED MENU BOARD DETAIL @ STRAIGHT CURB 3/8" = 1'-0" 2



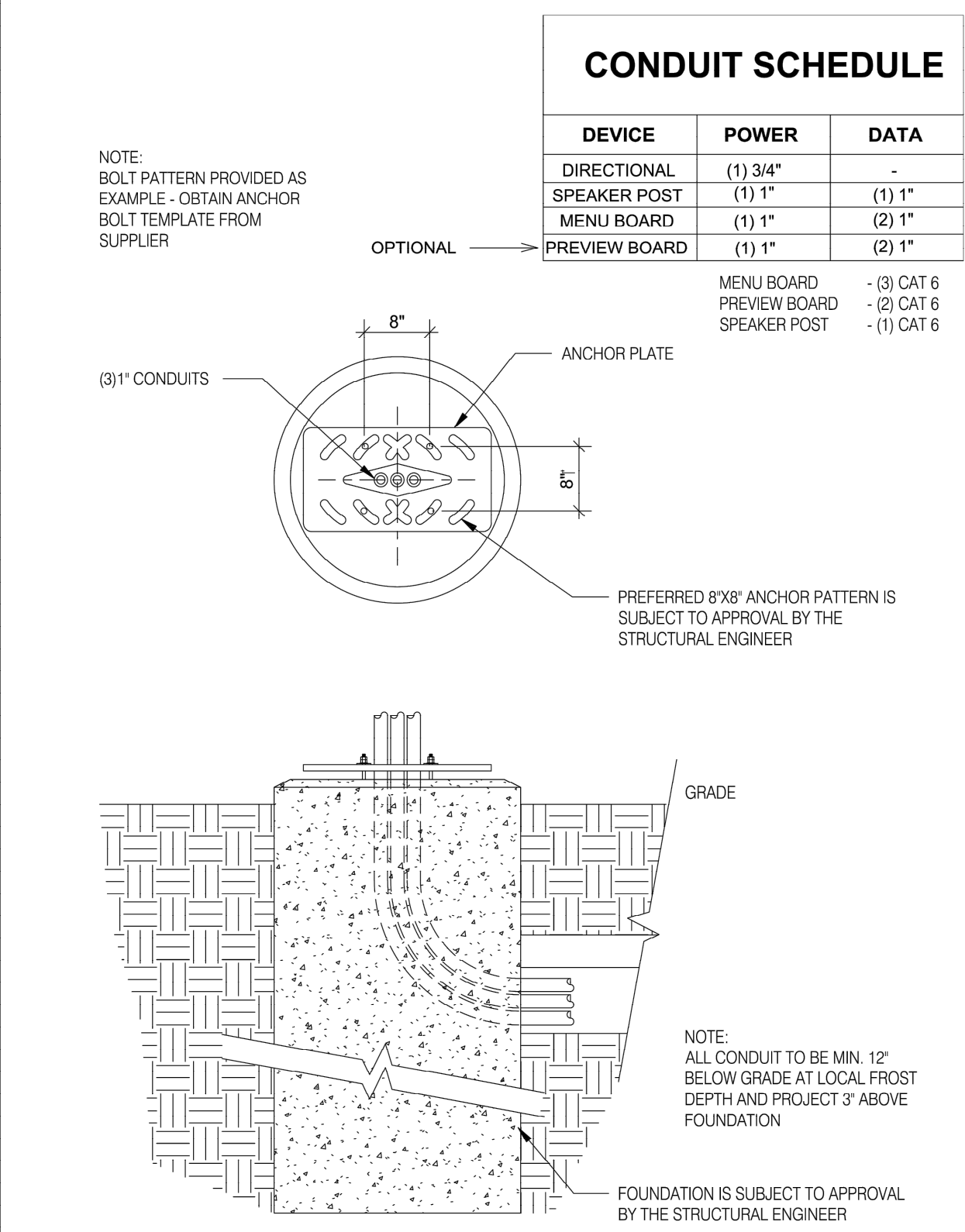
LIGHT POLE FOOTING N.T.S. 7



PORTAL PLACEMENT DETAIL N.T.S. 5

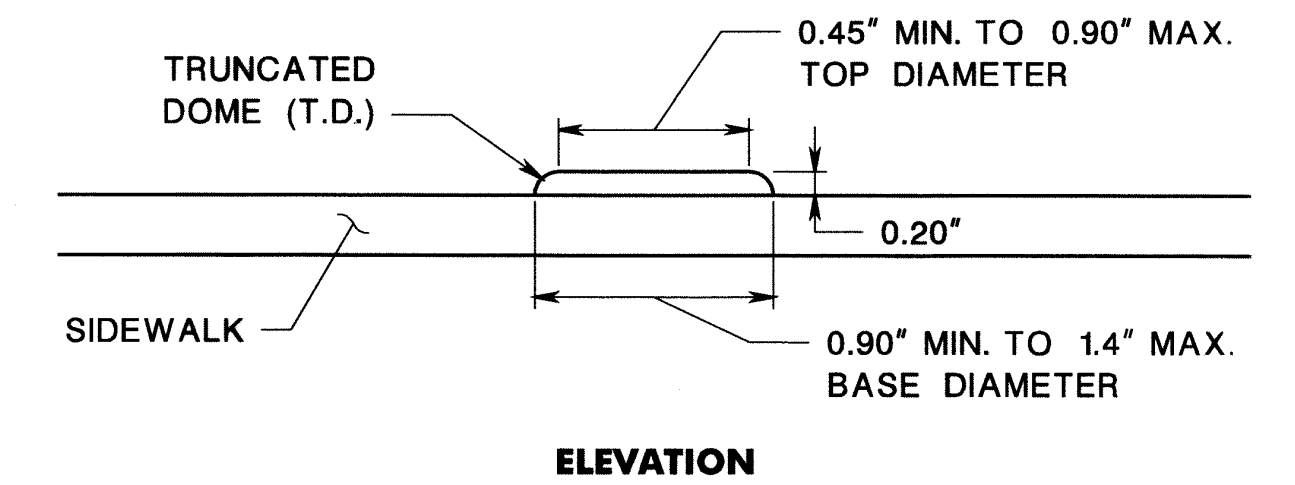
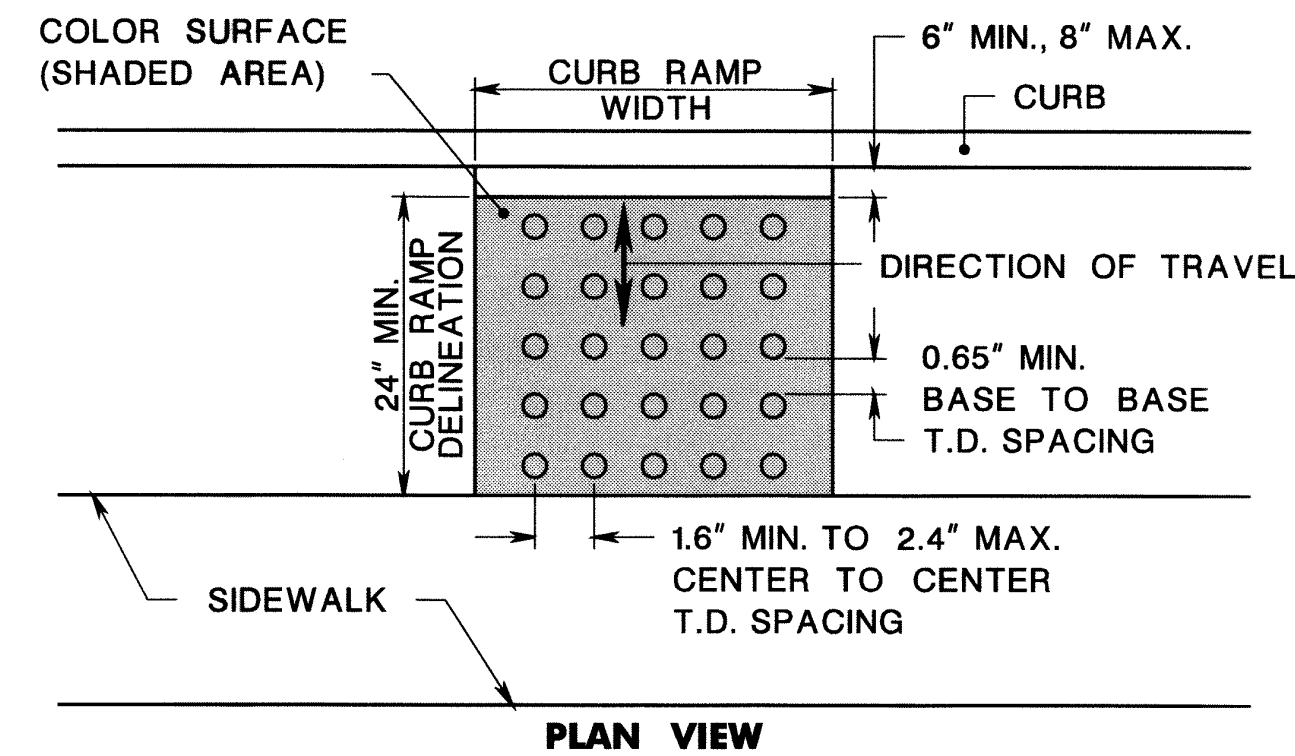


CLEARANCE BAR FOOTING N.T.S. 4



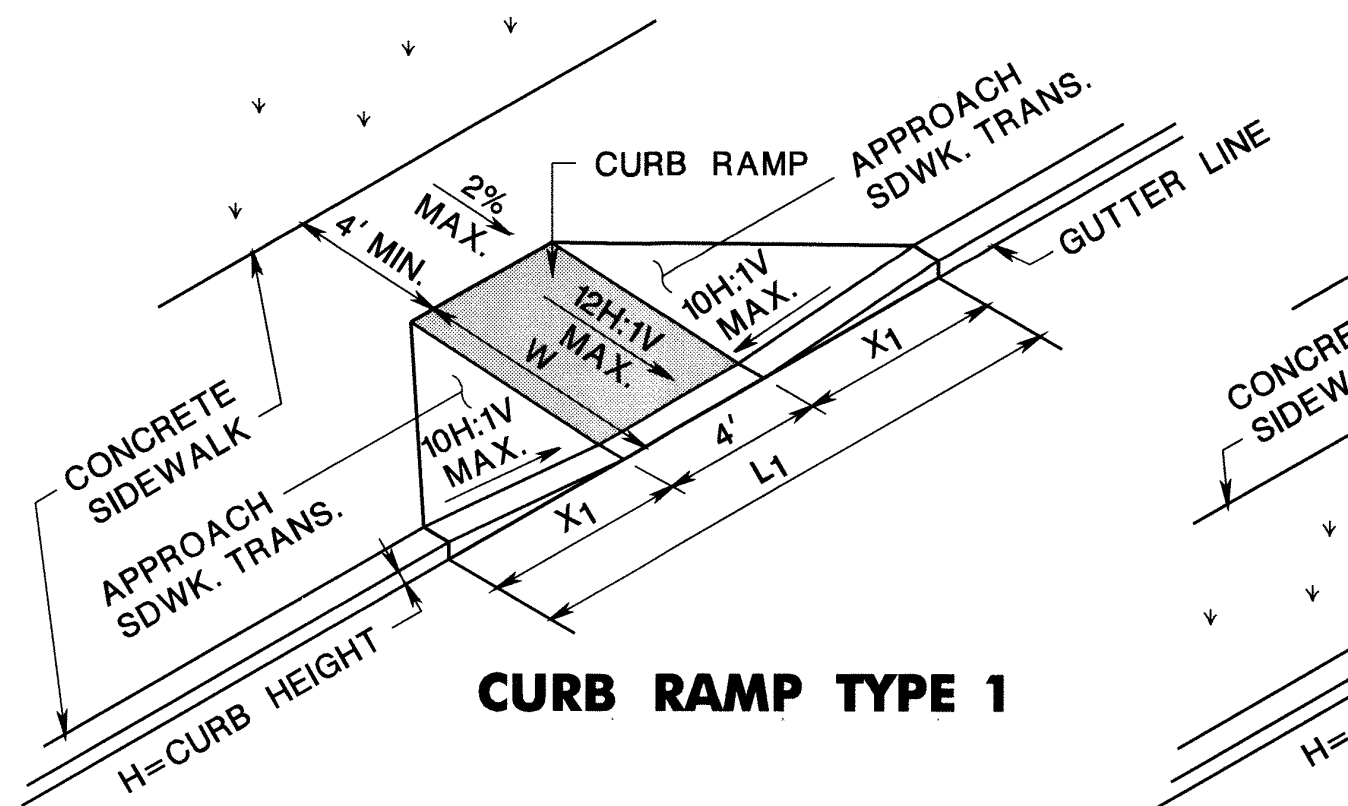
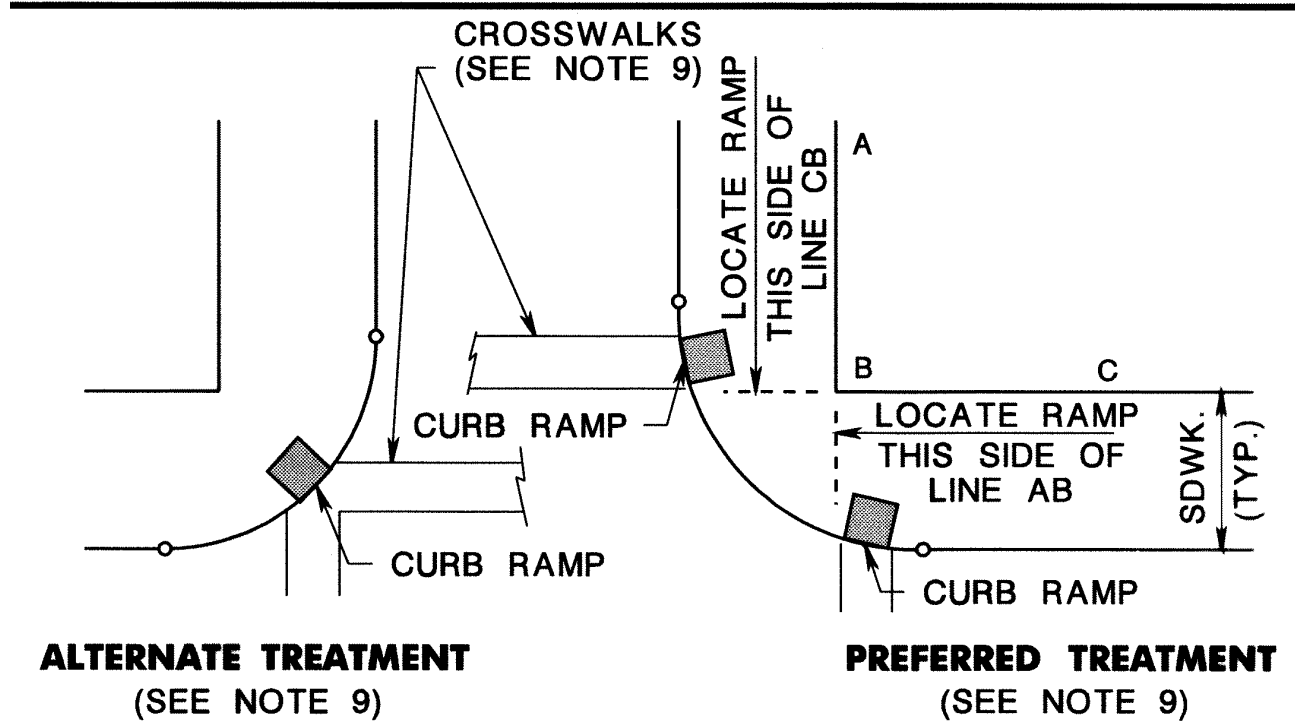
MENU FOUNDATION N.T.S. 3



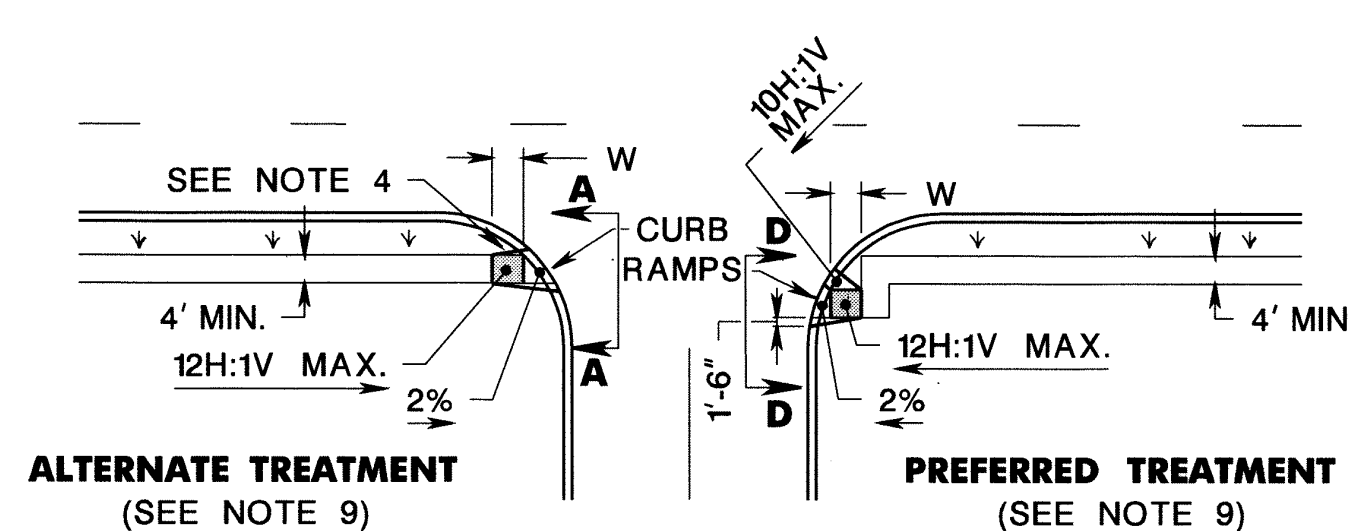


### DETECTABLE WARNING SURFACE

CD-606-1.1



### CURB RAMP TYPE 1

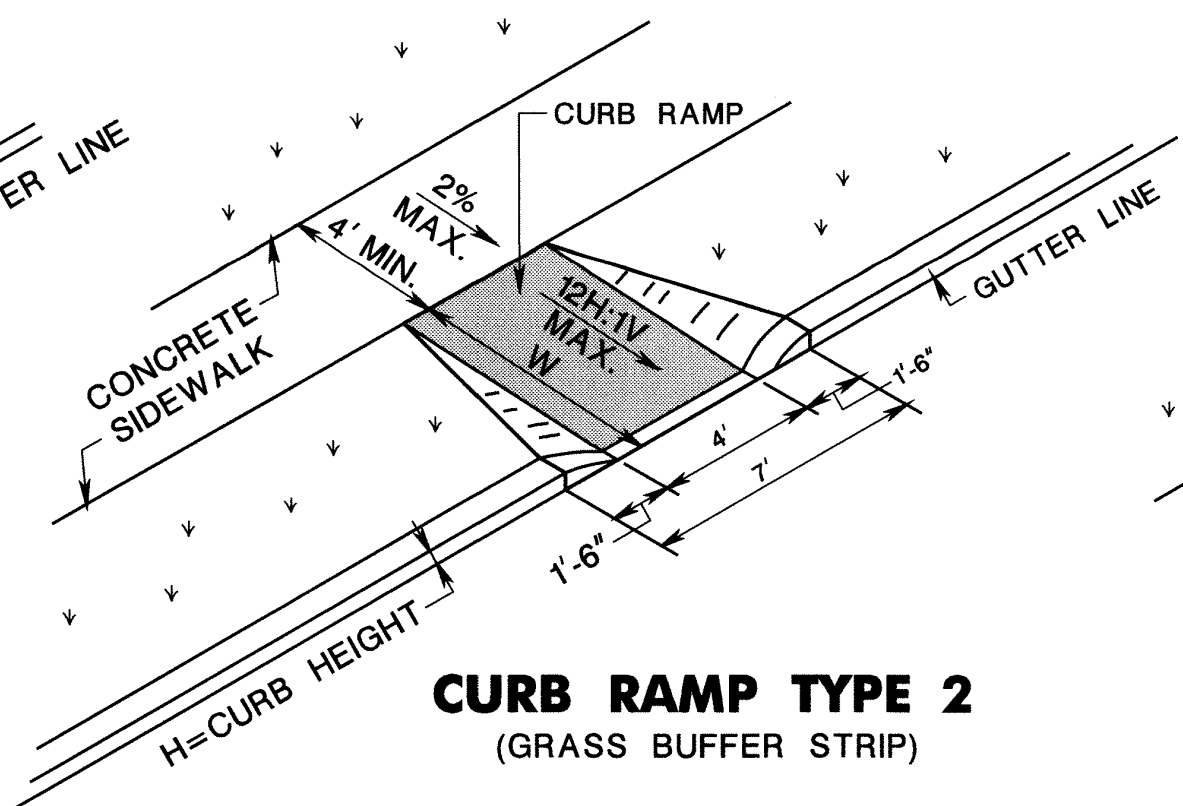


### CURB RAMP TYPE 5

(CROSSING PARALLEL TO HIGHWAY ONLY)

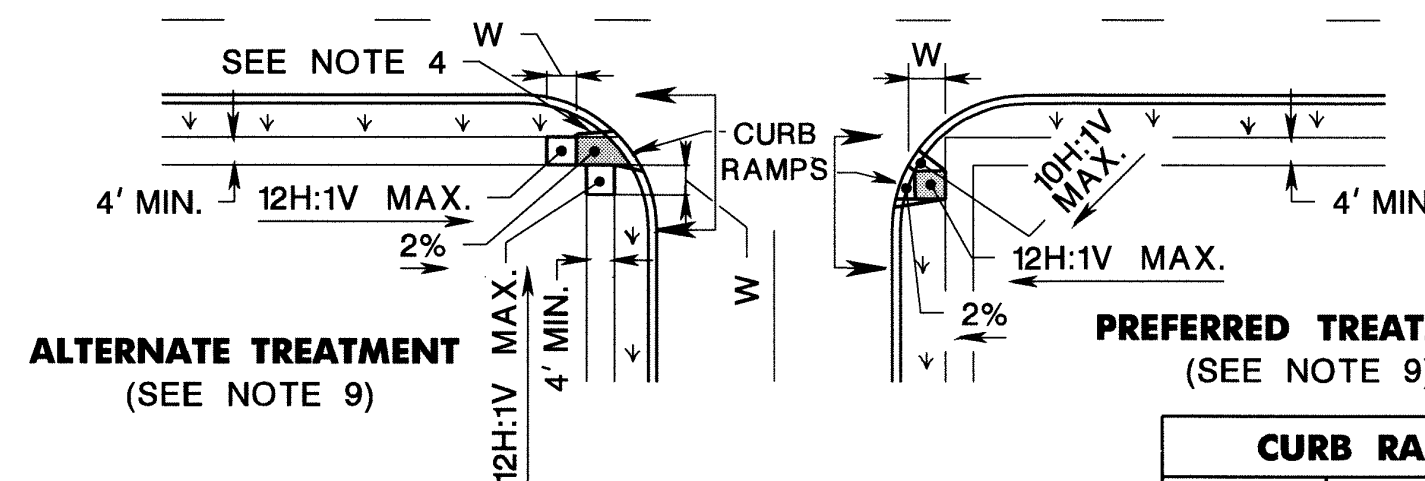
CURB RAMP TYPE 1				
H INCHES	X1 FEET	L1 FEET	W FEET	
3	2.5	9.0	3	
4	3.3	10.6	4	
5	4.2	12.4	5	
6	5.0	14.0	6	
7	5.8	15.6	7	
8	6.7	17.4	8	
9	7.5	19.0	9	

CURB RAMP TYPE 2, 5 OR 6		
H INCHES	W FEET	
3	3	
4	4	
5	5	
6	6	
7	7	
8	8	
9	9	



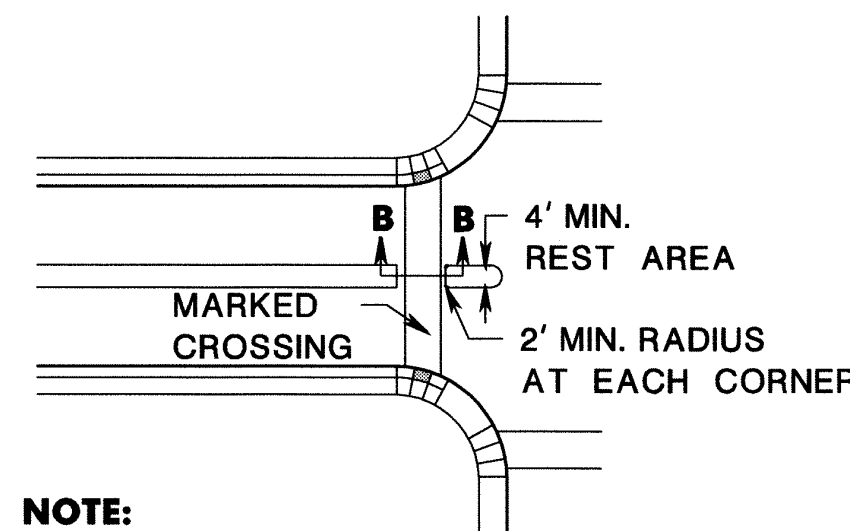
### CURB RAMP TYPE 2

(GRASS BUFFER STRIP)



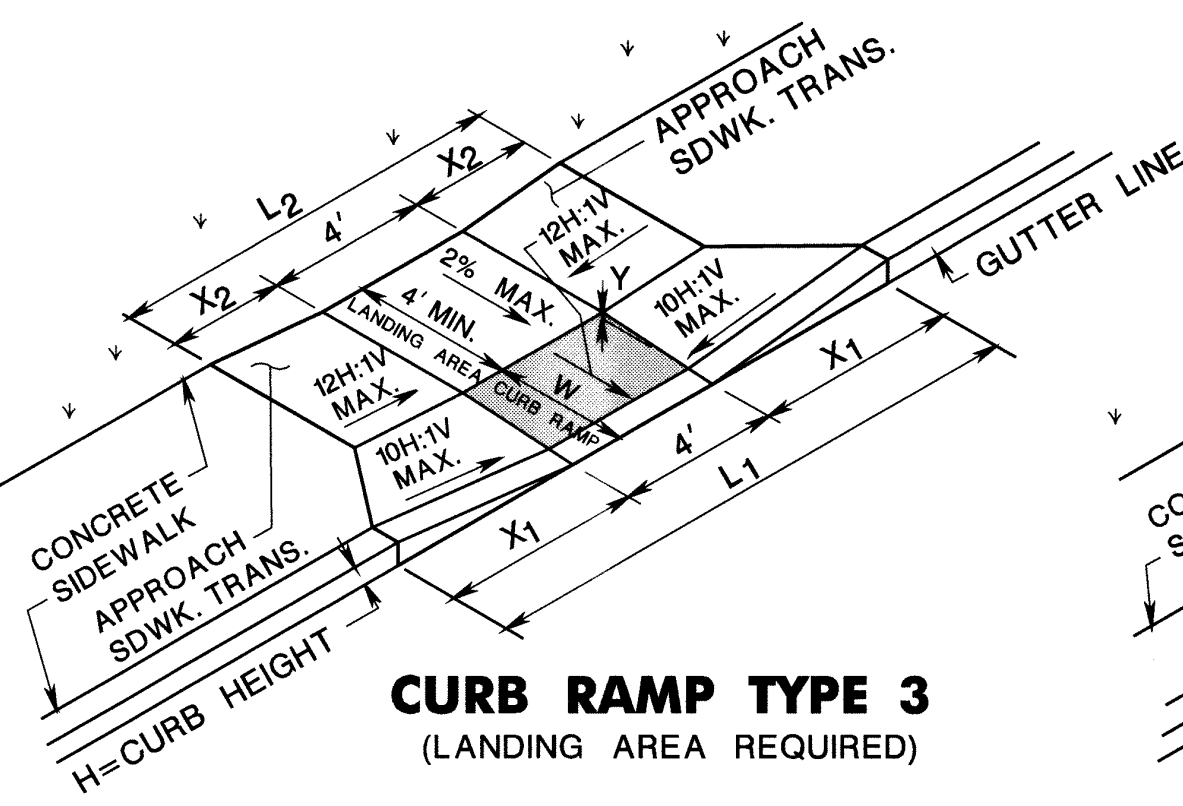
### CURB RAMP TYPE 6

(CROSSING PARALLEL TO HIGHWAY ONLY)



**NOTE:**  
WHERE PRACTICAL, END LEFT TURN ISLAND OR DIVISIONAL ISLAND BEFORE CROSSWALK TO ELIMINATE CUT-THROUGH

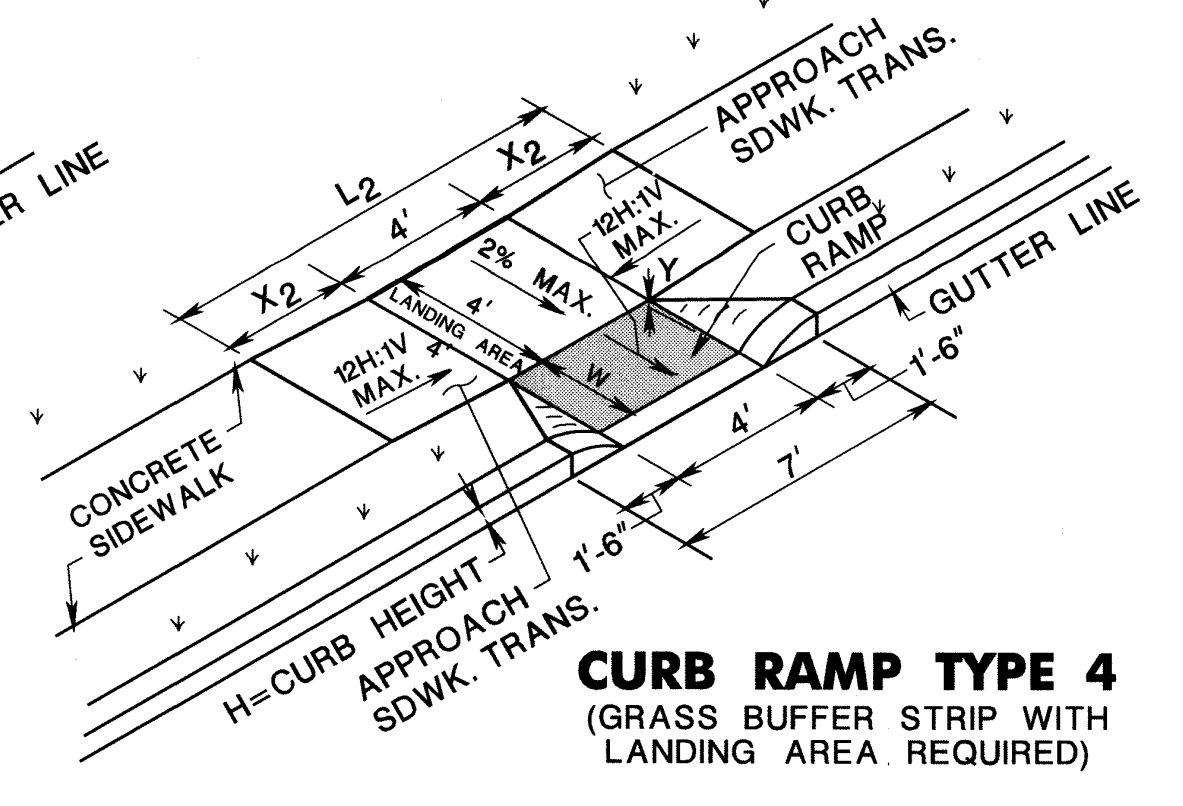
### ISLAND WALKWAY OPENING AT INTERSECTIONS



### CURB RAMP TYPE 3

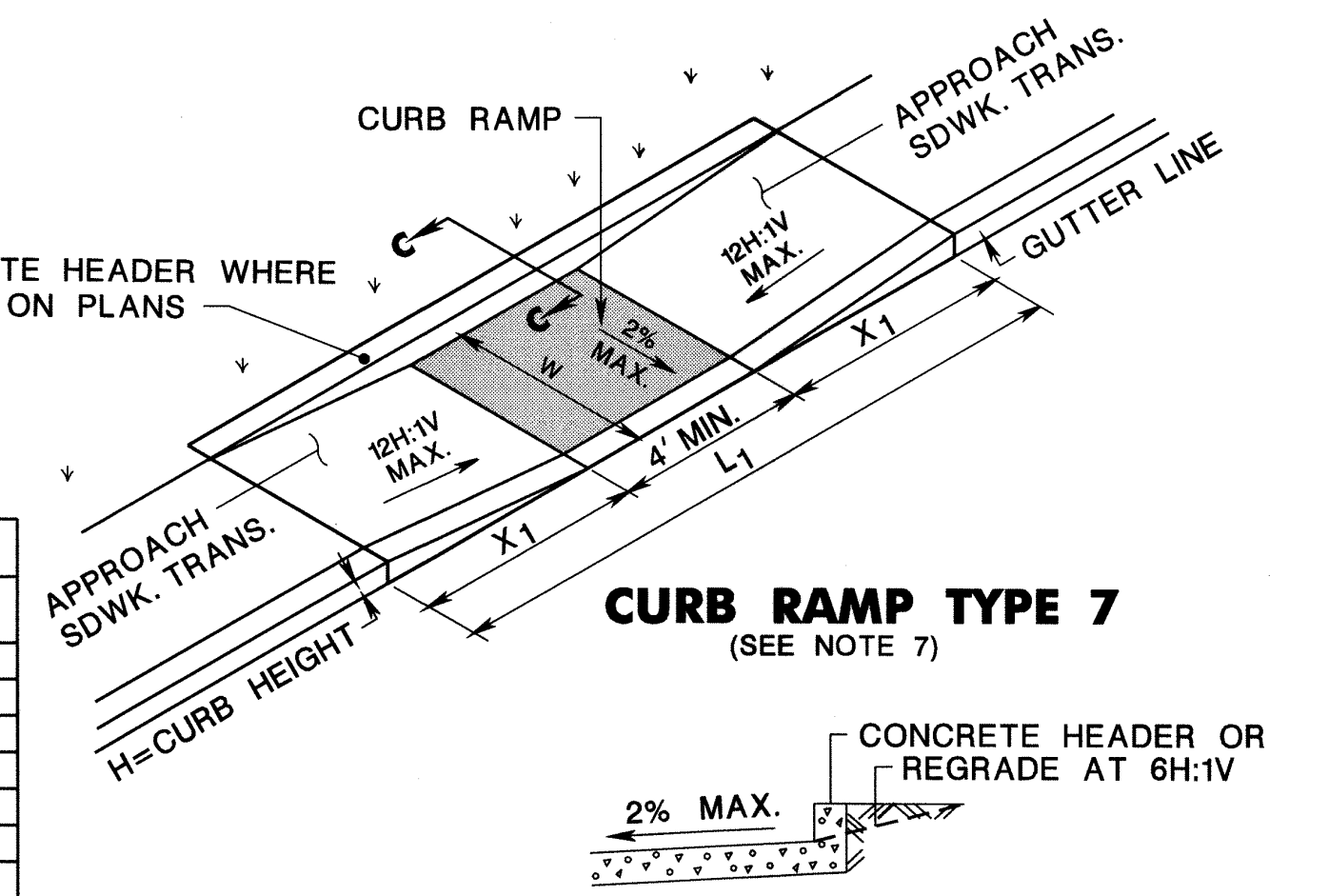
(LANDING AREA REQUIRED)

CURB RAMP TYPE 7			
W FEET	H INCHES	X1 FEET	L1 FEET
4 MIN. 6 MAX.	3	3	11
	4	4	13
	5	5	15
	6	6	17
	7	7	19
	8	8	21
	9	9	23



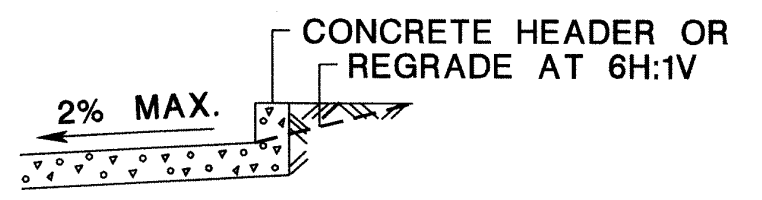
### CURB RAMP TYPE 4

(GRASS BUFFER STRIP WITH LANDING AREA REQUIRED)



### CURB RAMP TYPE 7

(SEE NOTE 7)



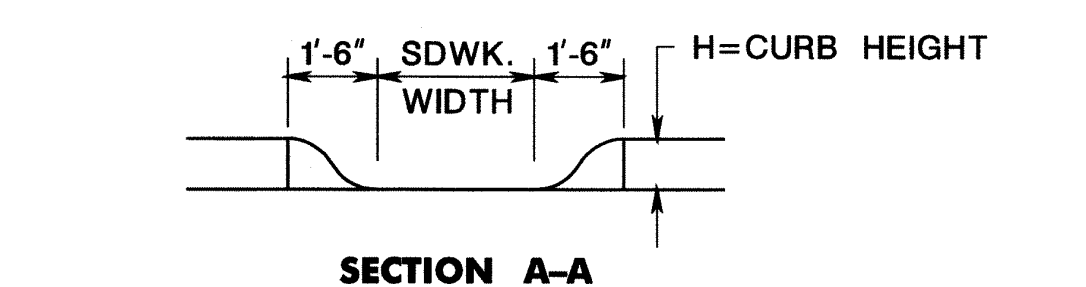
### SECTION C-C

- LANDING AREA, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP SHALL BE KEPT CLEAR OF OBSTRUCTIONS.
- DIMENSIONS SHOWN IN TABLES ARE FOR RELATIVELY FLAT SIDEWALK AREAS. CARE SHOULD BE TAKEN WHEN DETERMINING CURB RAMP SIZE BASED ON CURB HEIGHT (H) WHERE ELEVATION OF CURB AND SIDEWALK VARY DRASTICALLY IN AREA OF PROPOSED CURB RAMP.
- CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT A MINIMUM OF 4 FEET AT ALL CURB RAMPS.
- FOR CURB RAMP TYPES 5 AND 6, IF A GRASS BUFFER DOES NOT EXIST, SLOPE CURB TO EQUAL SLOPE OF ADJACENT CURB RAMP.
- SIDEWALK AND CURB RAMP WITHIN AREA ENCLOSED BY HEAVY LINES TO BE PAID FOR AS CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
- CURB AND HEADER WITHIN AREA ENCLOSED BY HEAVY LINES TO BE PAID FOR AS VERTICAL CURB OR SLOPING CURB OF THE APPROPRIATE ADJACENT SIZE AND KIND.
- WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, CURB RAMP TYPE 7 SHOULD BE USED, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4.
- CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED, SEE PLANS.
- PREFERRED AND ALTERNATE TREATMENTS SHOULD NOT BE INTERMIXED WITHIN THE SAME INTERSECTION.
- DIMENSIONS SHOWN IN TABLES ARE FOR 3 INCH TO 9 INCH CURB HEIGHTS. WHERE THE CURB HEIGHTS ARE OTHER THAN WHAT IS PROVIDED IN THE TABLES, THE DIMENSIONS OF THE RAMPS WILL HAVE TO BE CALCULATED BASED ON CROSS SLOPES SHOWN.

## PUBLIC SIDEWALK CURB RAMP DETECTABLE WARNING SURFACE

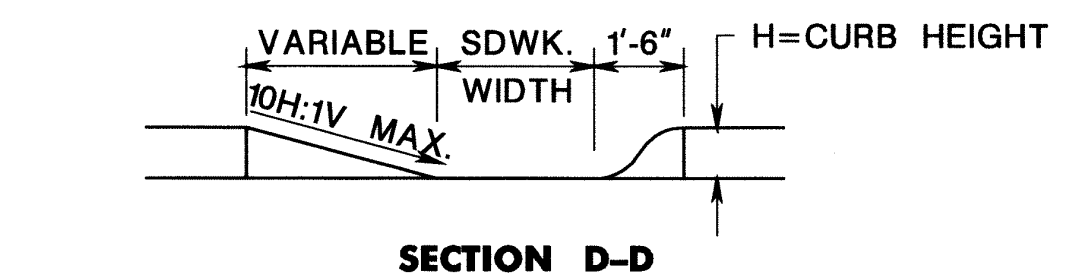
N.T.S.

HMA = HOT MIX ASPHALT CD-606-1

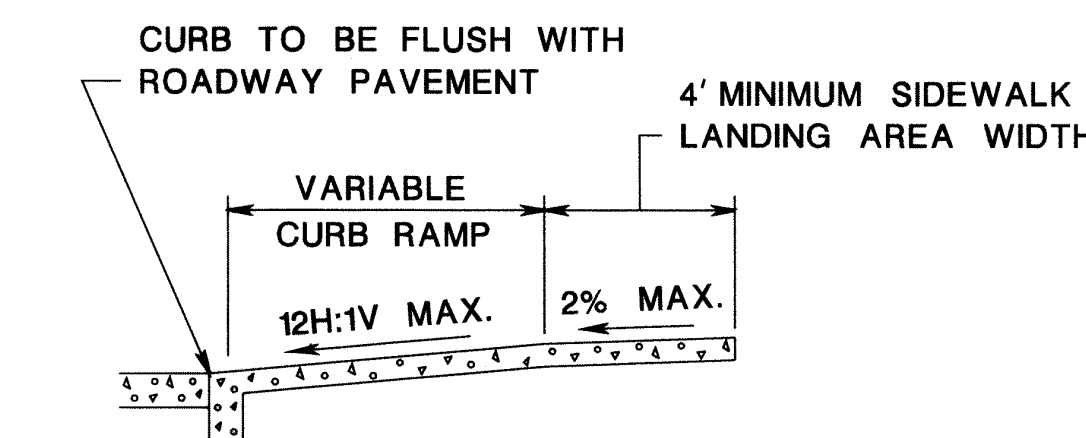


### SECTION A-A

**NOTE:**  
CURB RAMP OPENING TO BE FLUSH WITH ROADWAY PAVEMENT (CURB RAMP TYPES 5 & 6).

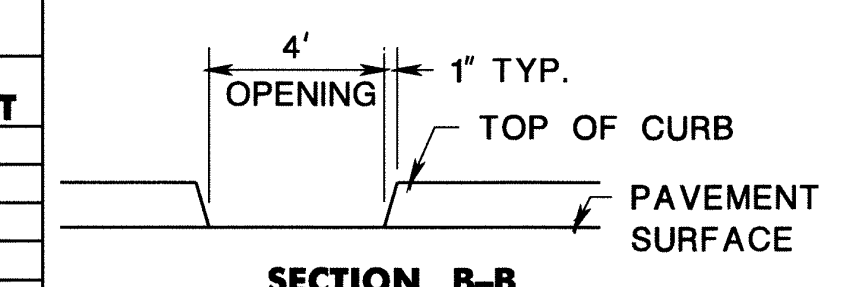


### SECTION D-D



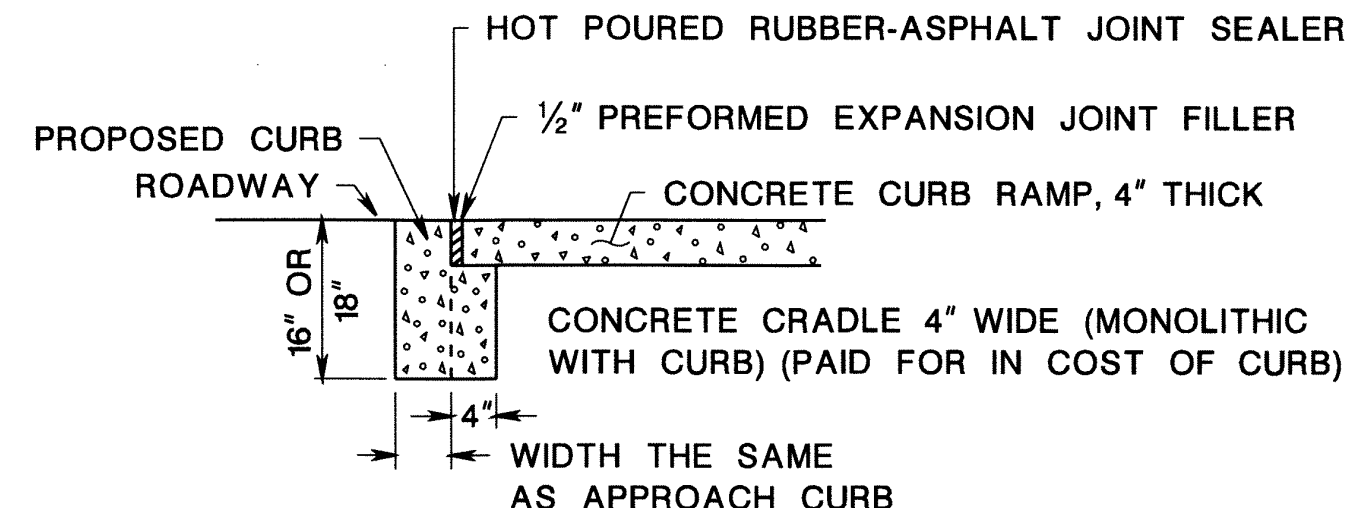
### SECTION THROUGH CURB RAMPS 1 THROUGH 6

\* TYPE 3 RAMP IS NOT APPLICABLE, USE TYPE 1. \*\* TYPE 4 RAMP IS NOT APPLICABLE, USE TYPE 2.



### SECTION B-B

**NOTE:**  
4' WIDE OPENING TO BE FLUSH WITH ROADWAY PAVEMENT



### CURB RAMPS

CD-606-1.2

NO.		DATE		DESCRIPTION	
PRELIMINARY & FINAL MAJOR SITE PLAN 2720 U.S. HIGHWAY 130 PUBLIC SIDEWALK CURB RAMP DETAILS BLOCK 224, LOT 1 TAX MAP SHEET NO. 60 TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY, NEW JERSEY					
<div style="display: flex; justify-content: space-between;"> <div> <b>EAST POINT</b> ENGINEERING, LLC NEW JERSEY CERTIFICATE OF AUTHORIZATION NO. 246A28169800 </div> <div> 11 South Main Street Marlboro, NJ 07746 Tel: 732.577.0180 </div> </div>					
DATE: 01-24-22		PROJECT NUMBER: 21-472		SCALE: N/A	
DATE: 01-24-22		CHECKED BY: BNP		SHEET NO. 15 OF 15	