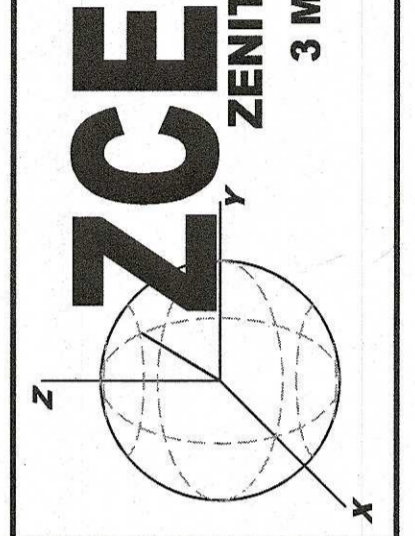


**ZENITH CONSULTING ENGINEERS, LLC**  
 3 MAIN STREET LAKEVILLE, MA 02347  
 PHONE: (508) 947-4208



SCHEDULE OF DRAWINGS		
SHEET ID	PLAN TITLE	LATEST REVISION DATE
E	EXISTING CONDITIONS PLAN	11/8/2021
R	ROADWAY GRADING PLAN & PROFILE	11/8/2021
D	SITE DETAILS	11/8/2021

**SITE NOTES:**

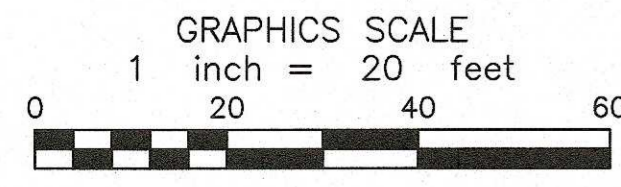
1. THE SITE IS LISTED ON THE TOWN OF MARSHFIELD ASSESSORS PROPERTY RECORD CARDS AS PARCEL ID G12-22-01.
2. PROPERTY LINE AND EXISTING CONDITIONS INFORMATION WAS TAKEN FROM A FIELD SURVEY BY ZENITH LAND SURVEYORS, LLC.
3. PLYMOUTH COUNTY REGISTRY OF DEEDS:  
DEED REFERENCE: BOOK 41721 PAGE 316
4. THE SUBJECT PROPERTY IS LOCATED IN ZONE X, AS SHOWN ON THE FLOOD INSURANCE RATE MAP (F.I.R.M.) OF PLYMOUTH COUNTY, MASSACHUSETTS, MAP NUMBER 25023C0227K, MAP REVISED NOVEMBER 4, 2016.
5. THE SITE IS NOT LOCATED IN A PRIORITY HABITAT AND ESTIMATED HABITAT AS SHOWN ON THE MASSACHUSETTS NATURAL HERITAGE ATLAS 14TH EDITION EFFECTIVE DATE AUGUST, 2017.
6. THE PROJECT IS NOT LOCATED WITHIN AN AREA OF CRITICAL ENVIRONMENTAL CONCERN (ACEC).
7. THE SITE IS LOCATED IN A ZONE II TO A PUBLIC WATER SUPPLY WELL.
8. THE SITE IS NOT IN A ZONE A TO A SURFACE WATER SUPPLY AREA.
9. THE SITE IS NOT LOCATED IN AN OUTSTANDING RESOURCE WATER AREA (ORW).

**CONSTRUCTION NOTES:**

1. CONTRACTOR TO VERIFY BENCHMARKS FOR CONSISTENCY PRIOR TO CONSTRUCTION AND SHALL NOTIFY ZENITH CONSULTING ENGINEERS, LLC OF ANY DISCREPANCIES.
2. CONTRACTOR SHALL VERIFY WATER TABLE ELEVATIONS AND NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES FROM THE PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT DIG SAFE (1-888-DIG SAFE) PRIOR TO THE COMMENCEMENT OF WORK AND ALL UNDERGROUND UTILITY COMPANIES TO CONFIRM LOCATIONS AND ELEVATIONS.
3. SITE IS TO BE SERVICED BY MUNICIPAL WATER AND ON-SITE SEPTIC.
4. ALL PAVEMENT MARKING AND SIGNAGE SHALL CONFORM TO MUTCD STANDARDS.
5. PROPOSED UTILITIES AND CONSTRUCTION METHODS UNDER AREAS SUBJECT TO TRAFFIC LOADING SHALL BE INSTALLED TO WITHSTAND H-20 LOADING TRAFFIC STANDARDS. CONTRACTOR SHALL VERIFY THAT ALL STRUCTURES COMPLY TO THIS STANDARD.
6. WHERE ALL CONCRETE STRUCTURES INTERCEPT THE SEASONAL HIGH GROUNDWATER TABLE, THE CONTRACTOR SHALL SEAL THE ENTIRE STRUCTURE WITH WATERPROOF SEALER.
7. ALL WORK SHALL CONFORM TO THE TOWN OF MARSHFIELD RULES AND REGULATIONS AND THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY AND BRIDGES, MOST CURRENT VERSION OF PLAN SET.

**SURVEY COMPANY OF RECORD:**

**ZLS**  
 ZENITH LAND SURVEYORS, LLC  
 1162 ROCKDALE AVENUE  
 NEW BEDFORD, MA 02740  
 (508) 995-0100



LEGEND	
69	EXISTING CONTOURS
x 98.5	EXISTING SPOT ELEVATION
TP #1	EXISTING TESTPIT
[69]	PROPOSED CONTOURS
---	EXISTING TREELINE
OHW	EXISTING OVERHEAD WIRES

REV.	DATE	DESCRIPTION	BY	APP.
1.	11/08/21	REV. GRADING & DRAINAGE	RLG	JLB

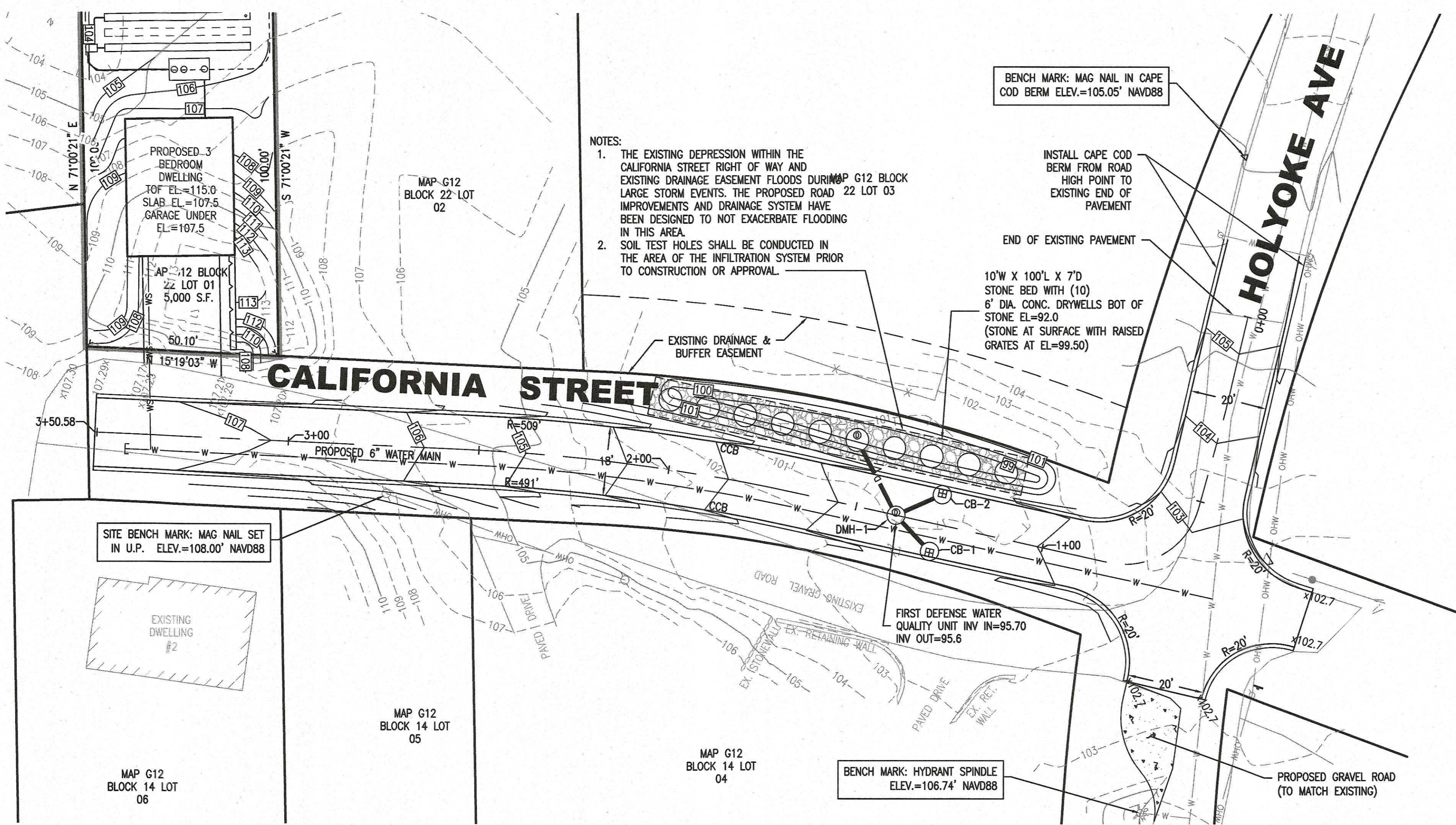
DATE:	PROJECT NUMBER:	DRAWING SCALE:	SHEET ID:
10-14-2021	0668-01-01	1" = 20'	E

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
JLB	JLB	NCZ	JLB

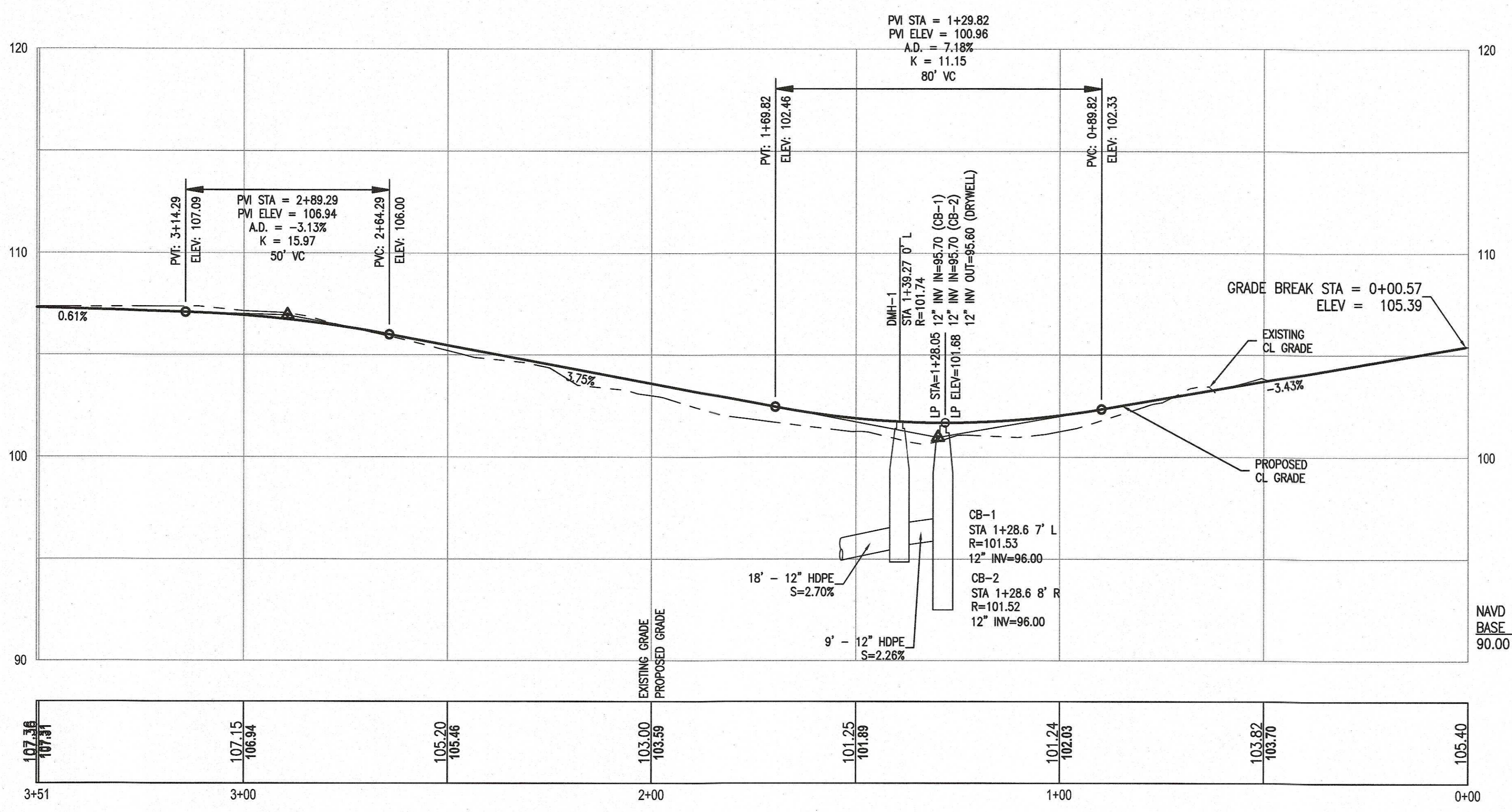
  

SHEET NAME:	PROJECT SITE:	CLIENT INFO:
ROADWAY IMPROVEMENTS EXISTING CONDITIONS PLAN	(G12-22-01) 0 CALIFORNIA STREET MARSHFIELD, MASSACHUSETTS	AGS DEVELOPMENT P.O. BOX 2599 ATTLEBORO FALLS, MA 02763



DRAINAGE STRUCTURE TABLE			
NAME	RIM ELEVATION	INCOMING PIPES	OUTGOING PIPES
CB-1	101.53		I=96.00' (DMH-1)
CB-2	101.52		I=96.00' (DMH-1)
DMH-1	101.74	I=95.70' (CB-1) I=95.70' (CB-2)	I=95.60' (DRYWELL)
DRYWELL	99.00	I=95.00' (DMH-1)	

**CL-CALIFORNIA STREET PROFILE**  
 HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=4'

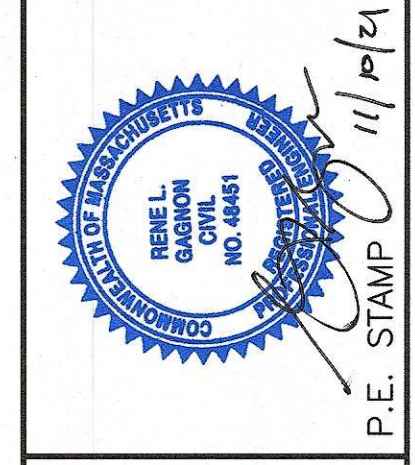


**CONSTRUCTION OPERATION AND MAINTENANCE SCHEDULE**

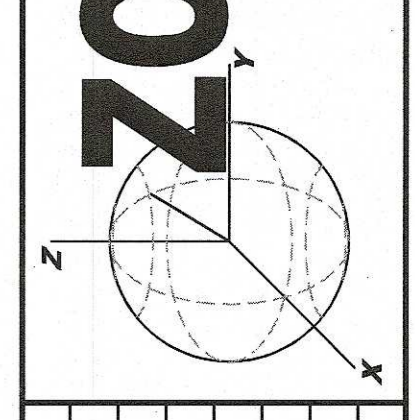
- THE OPERATION AND MAINTENANCE (O&M) SCHEDULE DURING THE CONSTRUCTION PHASE IS THE RESPONSIBILITY OF THE DEVELOPER AND/OR SITE CONTRACTOR. THE OUTLINE BELOW SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE TO ENSURE THE PROPER CONSTRUCTION AND FUNCTION OF THE DRAINAGE SYSTEM.
- PRIOR TO CONSTRUCTION, SILT FENCE SHALL BE INSTALLED PER THE APPROVED PLANS. THE SILT FENCE SHALL BE INSPECTED PRIOR TO A LARGE STORM EVENT TO ENSURE THAT THE EROSION CONTROL WILL FUNCTION AS REQUIRED AND FOLLOWING A STORM TO INSPECT FOR DAMAGE TO THE EROSION CONTROL ELEMENTS. ANY DAMAGE OR IMPROPER INSTALLATION THAT IS NOTICED PRIOR TO OR FOLLOWING A STORM EVENT SHALL BE PROMPTLY REPLACED OR REPAIRED IN A SATISFACTORY MANNER SO AS TO PREVENT SEDIMENT FROM BYPASSING THE EROSION CONTROL BARRIER.
  - THE LIMIT OF CLEARING SHOWN ON THE APPROVED PLAN SHALL BE STRICTLY ADHERED TO. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE LEVEL OF SAFETY OF STANDING TREES.
  - IN CONJUNCTION WITH THE SITE CONSTRUCTION, THE STORMWATER SYSTEM SHALL BE CONSTRUCTED AND STABILIZED AS SOON AS POSSIBLE. METHODS OF STABILIZATION INCLUDE, BUT ARE NOT LIMITED TO, HYDROSEED, LOAM AND SEED, STRAW MULCH, EROSION CONTROL BLANKETS, ETC.
  - THE DRAINAGE SYSTEM SHALL BE INSPECTED WEEKLY OR AFTER ALL RAINFALL EVENTS GREATER THAN 1/2 INCH, WHICHEVER OCCURS SOONER. ANY EROSION WITHIN THE BASINS SHALL BE FILLED AND RESTABILIZED IN A MANNER TO PREVENT FUTURE EROSION. IN ADDITION, THE OUTER PORTIONS OF THE DETENTION BASINS SHALL BE INSPECTED IN A SIMILAR MANNER.

**CONSTRUCTION SEQUENCE OF OPERATIONS**

- THE FOLLOWING SEQUENCE OF OPERATION SHALL BE FOLLOWED TO ENSURE THE PROPER CONSTRUCTION AND FUNCTION OF THE DRAINAGE AND EROSION CONTROL SYSTEMS.
- PRIOR TO ANY EARTH DISTURBING ACTIVITIES, THE EROSION CONTROL BARRIERS CONSISTING OF SILT FENCE SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE SITE PLANS.
  - THE EXISTING TREES AND SHRUBS WITHIN THE LIMIT OF WORK SHALL THEN BE CLEARED AND GRUBBED.
  - THE CONSTRUCTION PHASE OF THE PROJECT SHALL BEGIN WITH THE CONSTRUCTION OF THE INFILTRATION SYSTEM.
  - THE AREA SHALL THEN BE FILLED AND COMPACTED IN 12 INCH LIFTS TO THE PROPOSED ROUGH GRADE.
  - SIDE SLOPES THAT ARE TO BECOME LAWN IN THE FINAL CONDITION SHALL THEN RECEIVE A 4 INCH LAYER OF LOAM AND THEN BE SEEDED WITH A QUALITY HYDROSEED MIX.
  - THROUGHOUT THE REMAINDER OF THE CONSTRUCTION PHASE, THE ENTIRE PROJECT SITE SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER ANY RAIN EVENT GREATER THAN 1 INCH FOR INDICATIONS OF EROSION. ANY ERODED AREAS SHALL BE REPAIRED IMMEDIATELY AND STABILIZED WITH VEGETATION, GEOGRID OR ANY METHOD THE CONTRACTOR DETERMINES TO BE ADEQUATE.

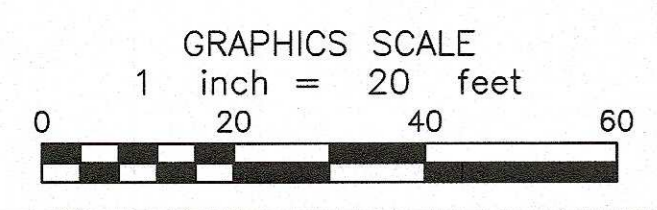


**ZCE**  
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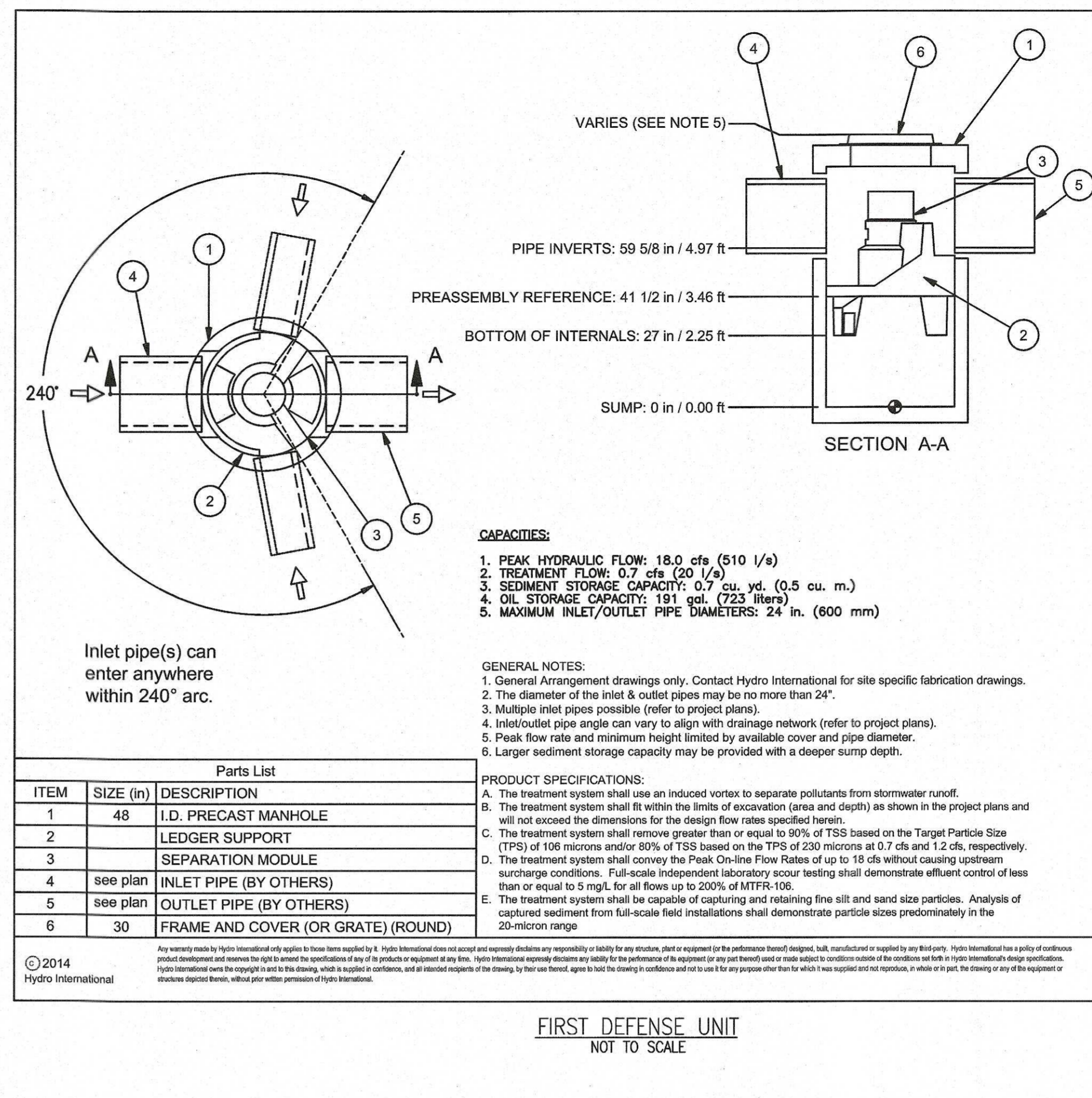
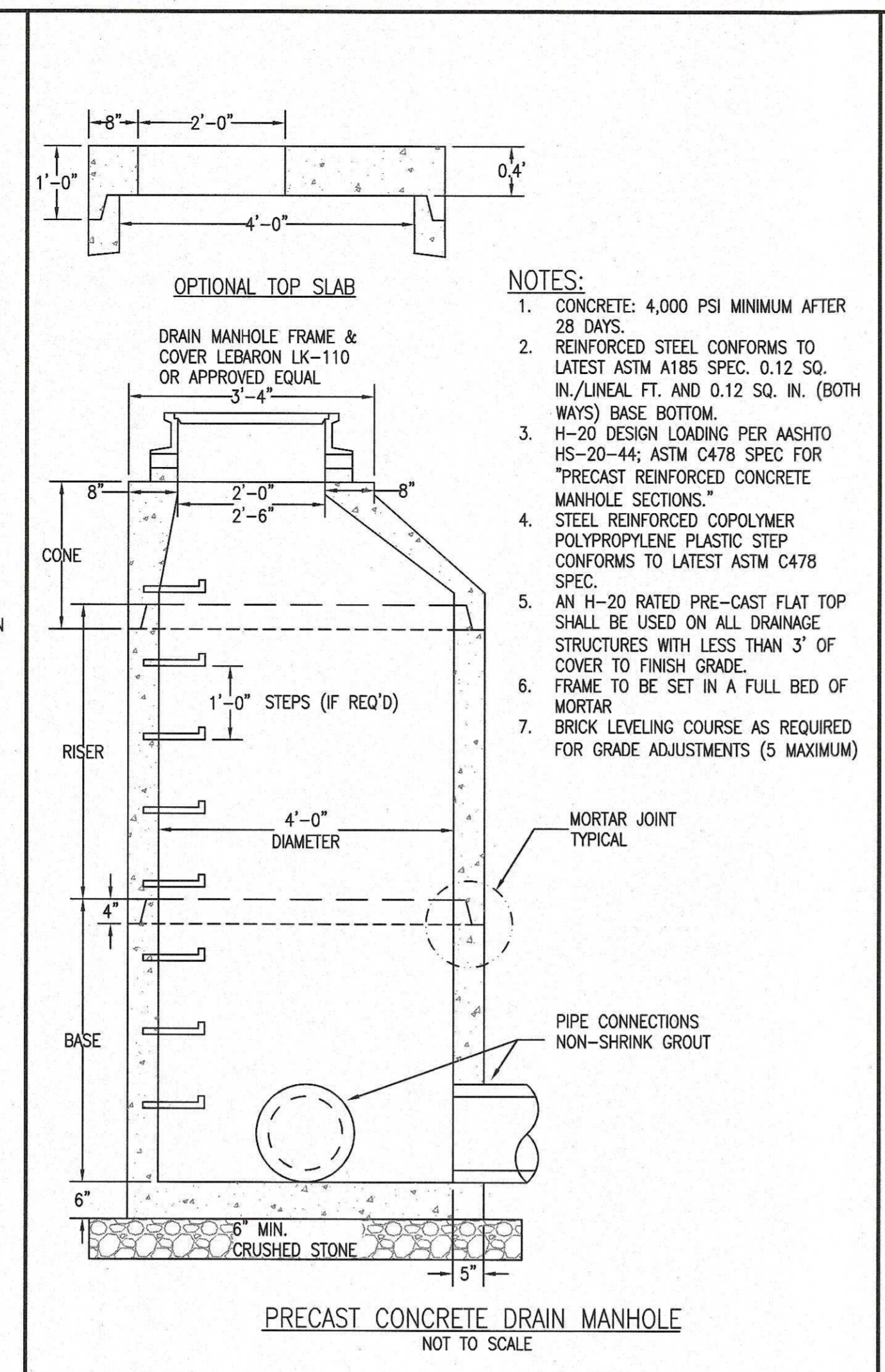
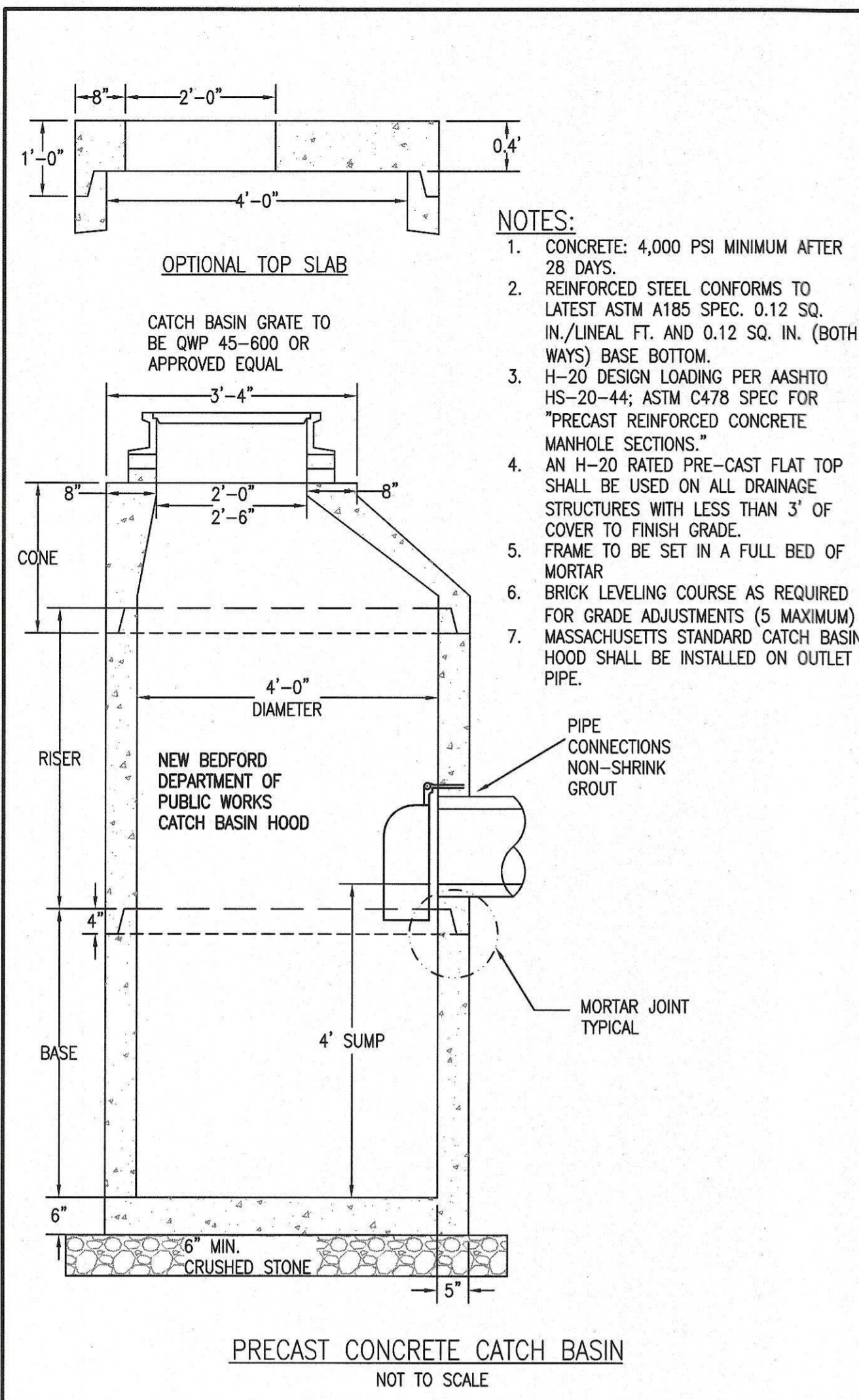
REV.	DATE	DESCRIPTION	BY	APP.
1.	11/08/21	REV. GRADING & DRAINAGE	RLG	JLB

**ROADWAY IMPROVEMENTS**  
**ROADWAY GRADING PLAN & PROFILE**  
 (G12-22-07) 0 CALIFORNIA STREET  
 MARSHFIELD, MASSACHUSETTS  
**AGS DEVELOPMENT**  
 P.O. BOX 2589  
 ATTLEBORO FALLS, MA 02763



NAV8 88  
 BASE ELEV  
 90.00

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**NOTES:**

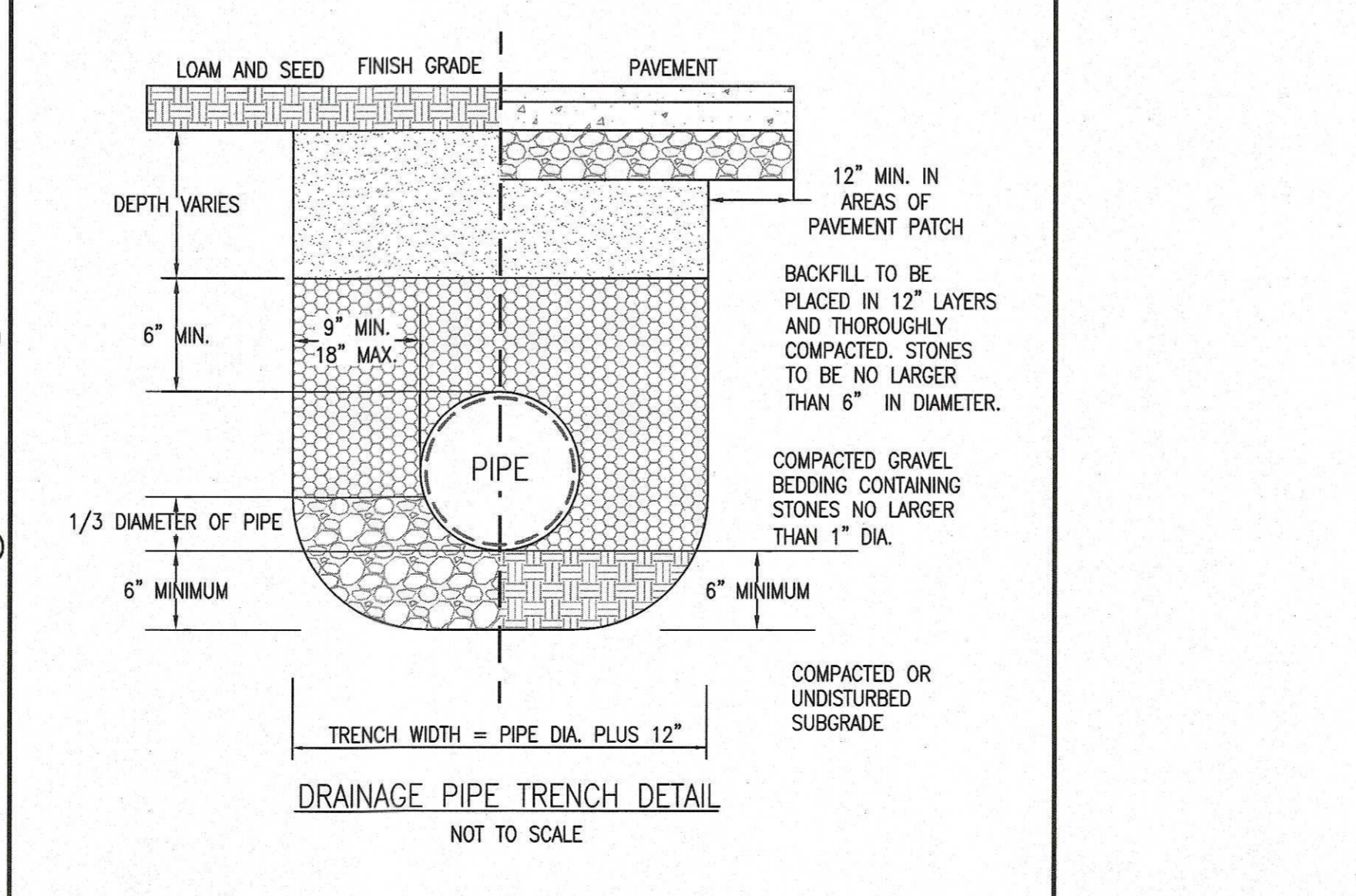
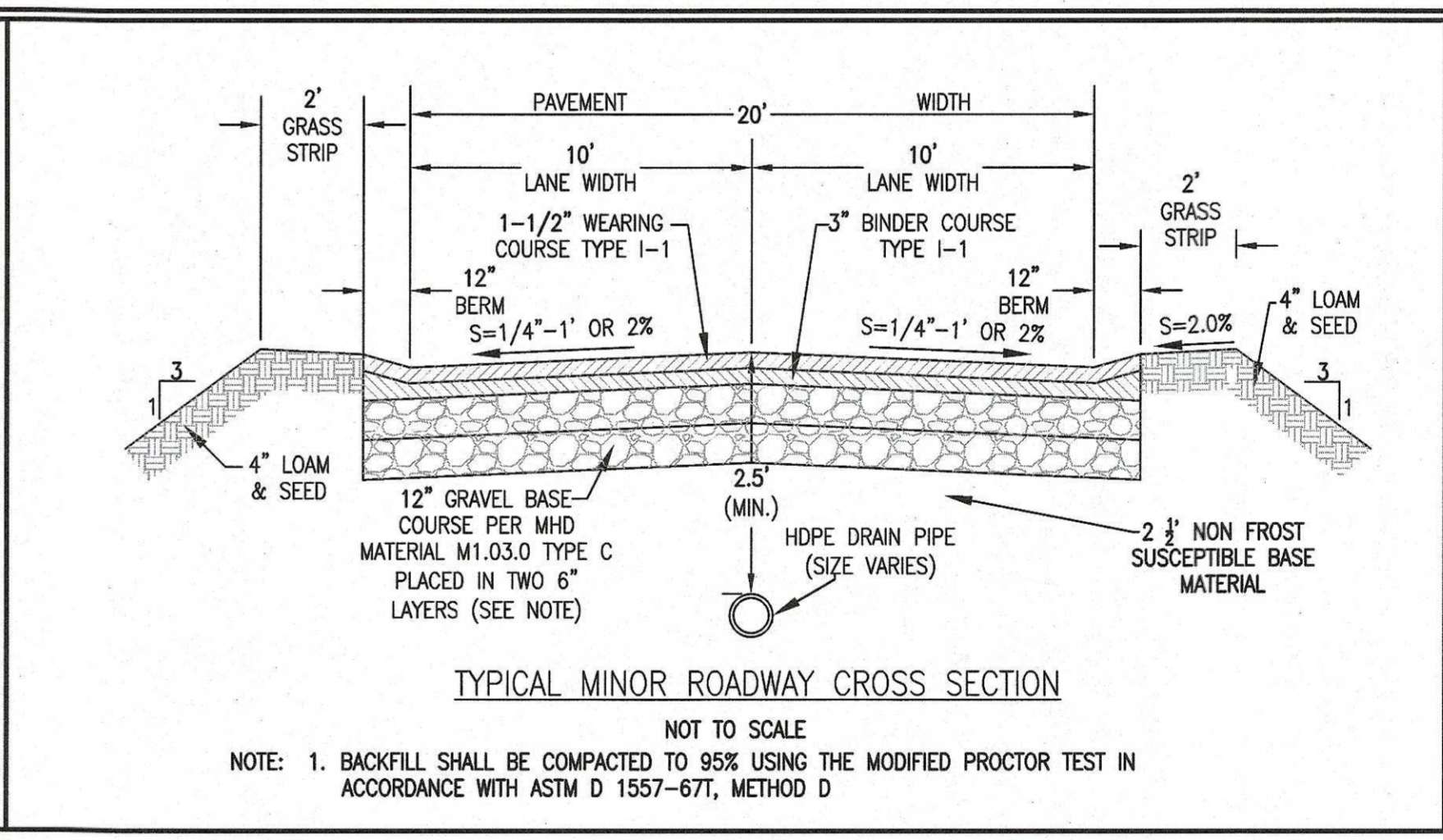
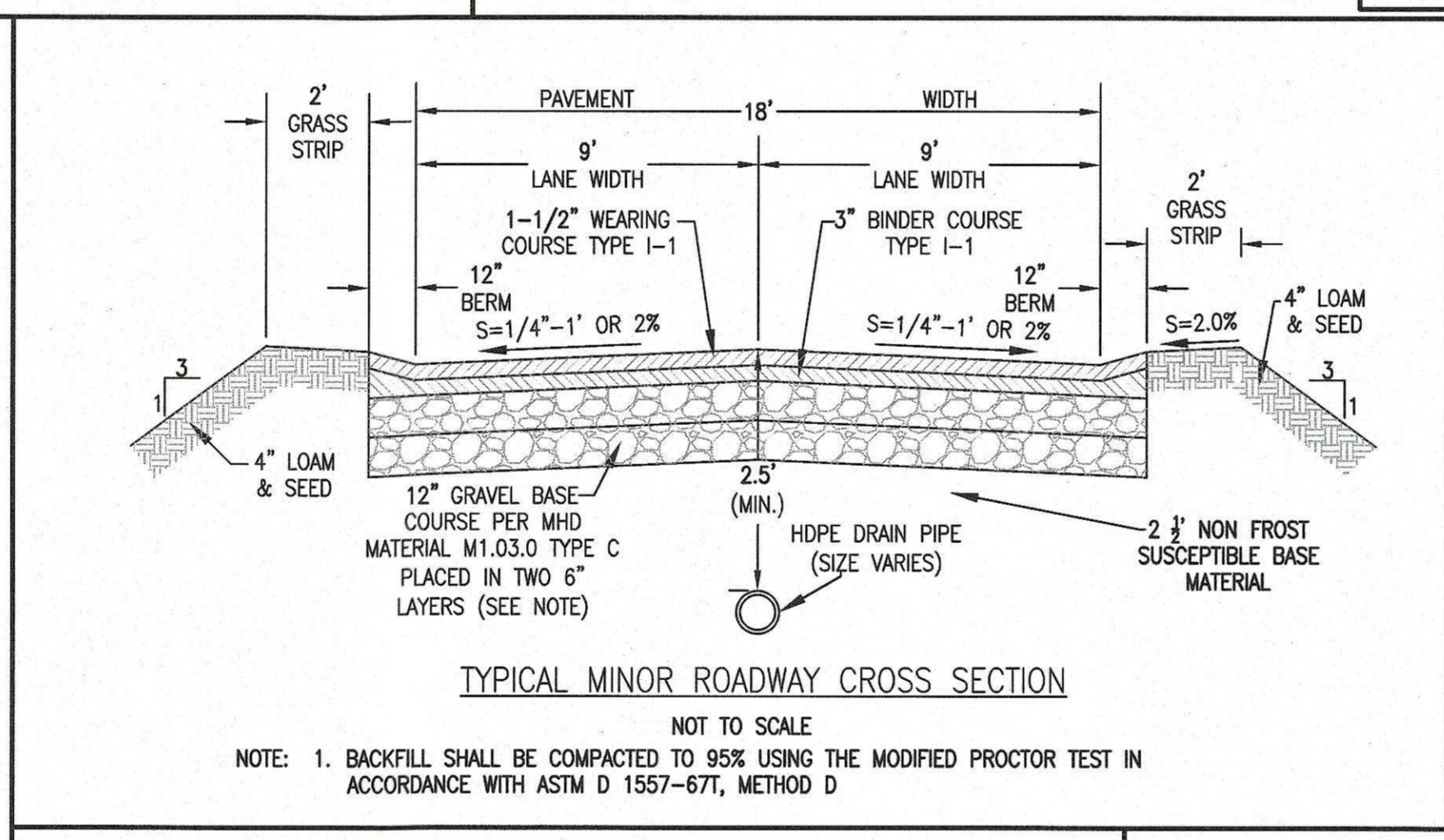
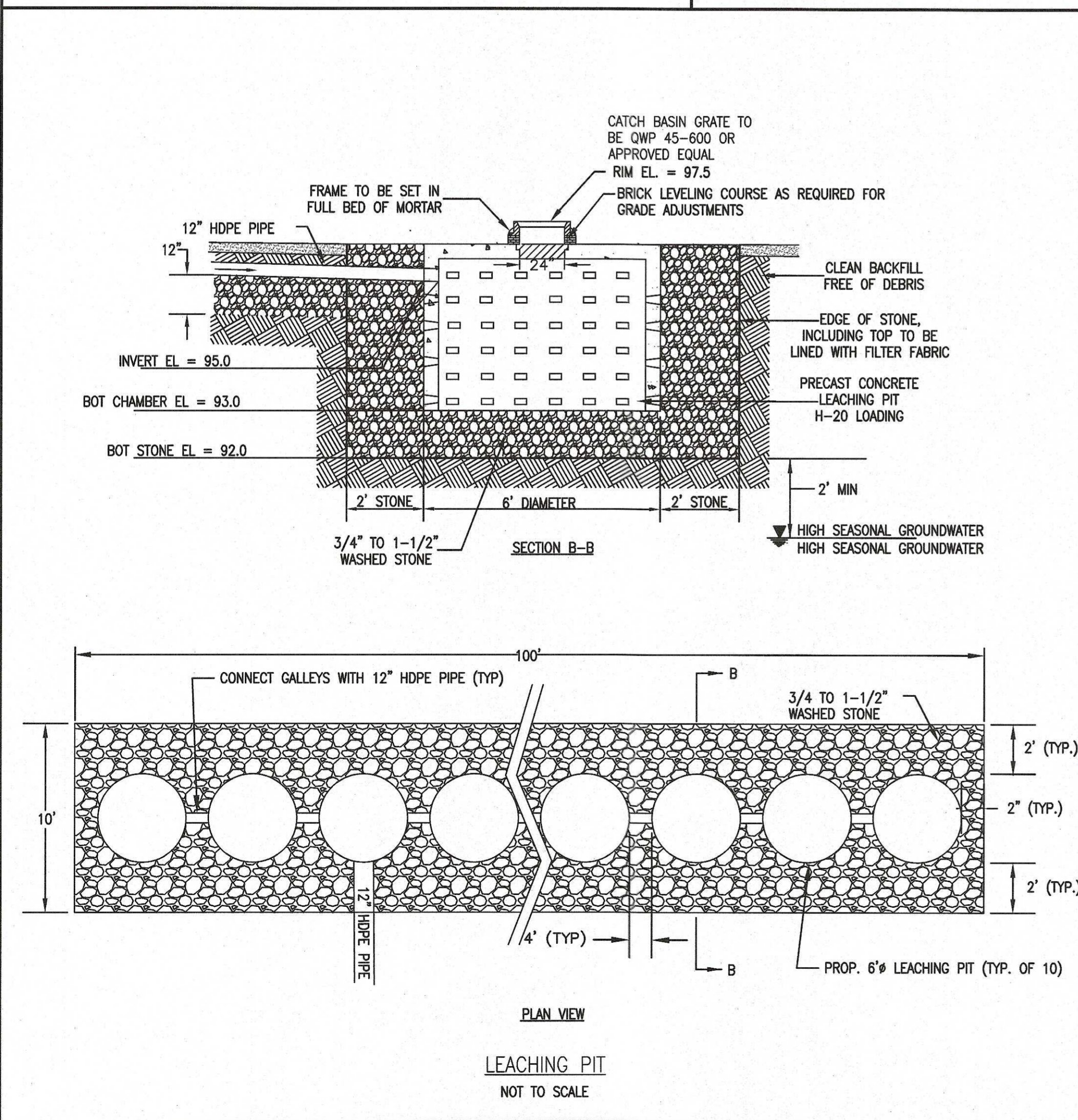
1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.
3. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

Title

4-FT DIAMETER FIRST DEFENSE

**Hydro International**

Stormwater Solutions  
94 Hutchins Drive  
Portland, Maine 04102  
Tel: (207) 756-6200  
Fax: (207) 756-6212  
stormwaterinquiry@hydro-int.com



11-10-21

P.E. STAMP

**ZENITH CONSULTING ENGINEERS, LLC**  
3 MAIN STREET LAKEVILLE, MA 02347  
PHONE: (508) 947-4208

**ZCE**

Stormwater Solutions  
94 Hutchins Drive  
Portland, Maine 04102  
Tel: (207) 756-6200  
Fax: (207) 756-6212  
stormwaterinquiry@hydro-int.com

BY	APP.	DATE	DESCRIPTION
RLC	JLB	11/08/21	REV. GRADING & DRAINAGE

DATE	PROJECT NUMBER	DRAWING SCALE	SHEET ID
10-14-2021	0668-01-01	1" = 20'	D

**ROADWAY IMPROVEMENTS**  
**SITE DETAILS**

PROJECT SITE: (G12-22-01) 0 CALIFORNIA STREET  
MARSHFIELD, MASSACHUSETTS

CLIENT INFO: AGS DEVELOPMENT  
P.O. BOX 2599  
ATTLEBORO FALLS, MA 02763

DESIGNED BY: JLB  
CHECKED BY: NCB  
APPROVED BY: JLB

S:\Civil Engineering Projects\Marshfield\California Street\DWG\10-04-21.dwg

COMMONWEALTH OF MASSACHUSETTS  
REGISTERED PROFESSIONAL ENGINEER  
JONATHAN J. PINK  
NO. 41787  
11-10-21