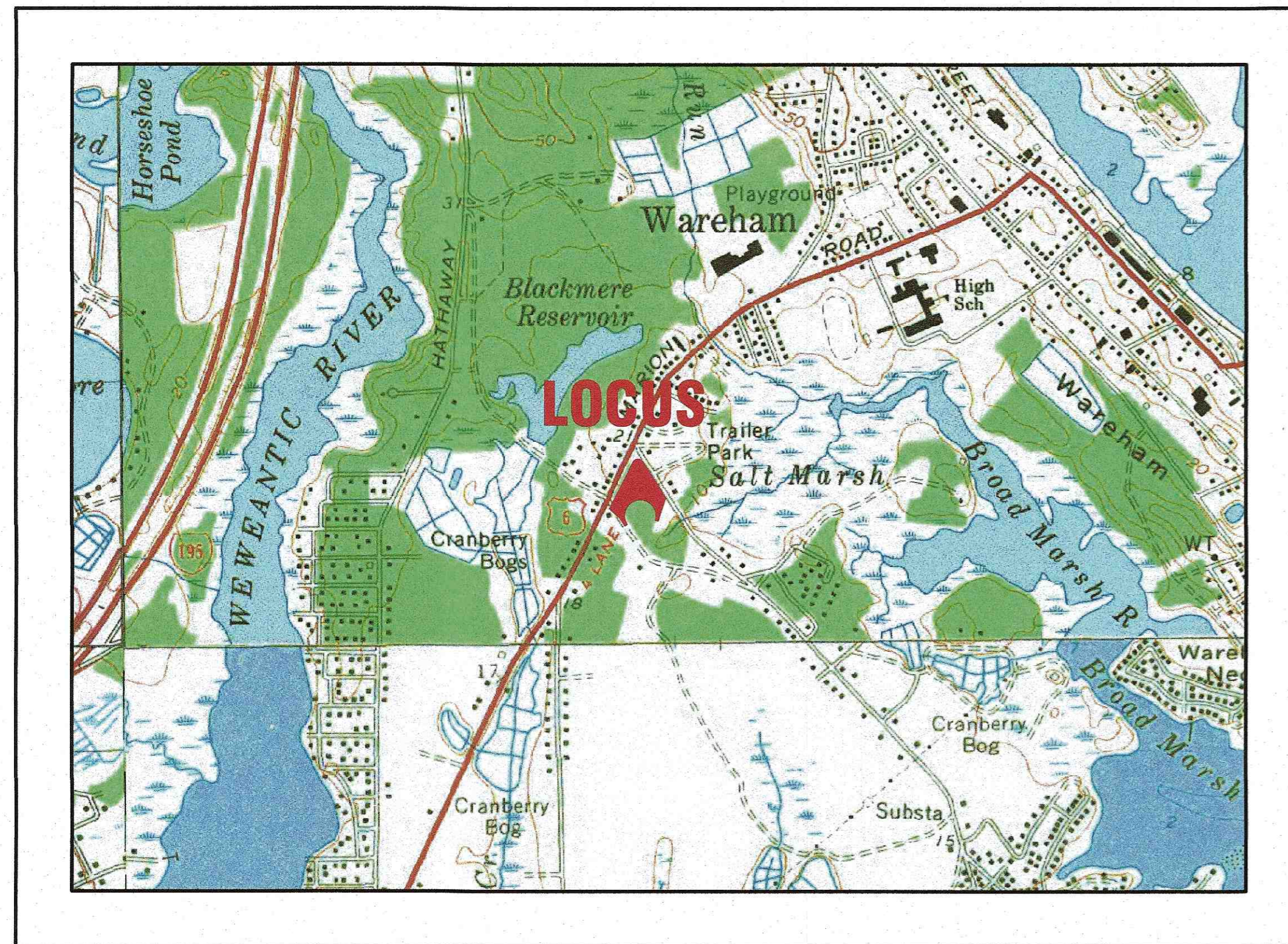


# DAMIEN'S FOOD PANTRY

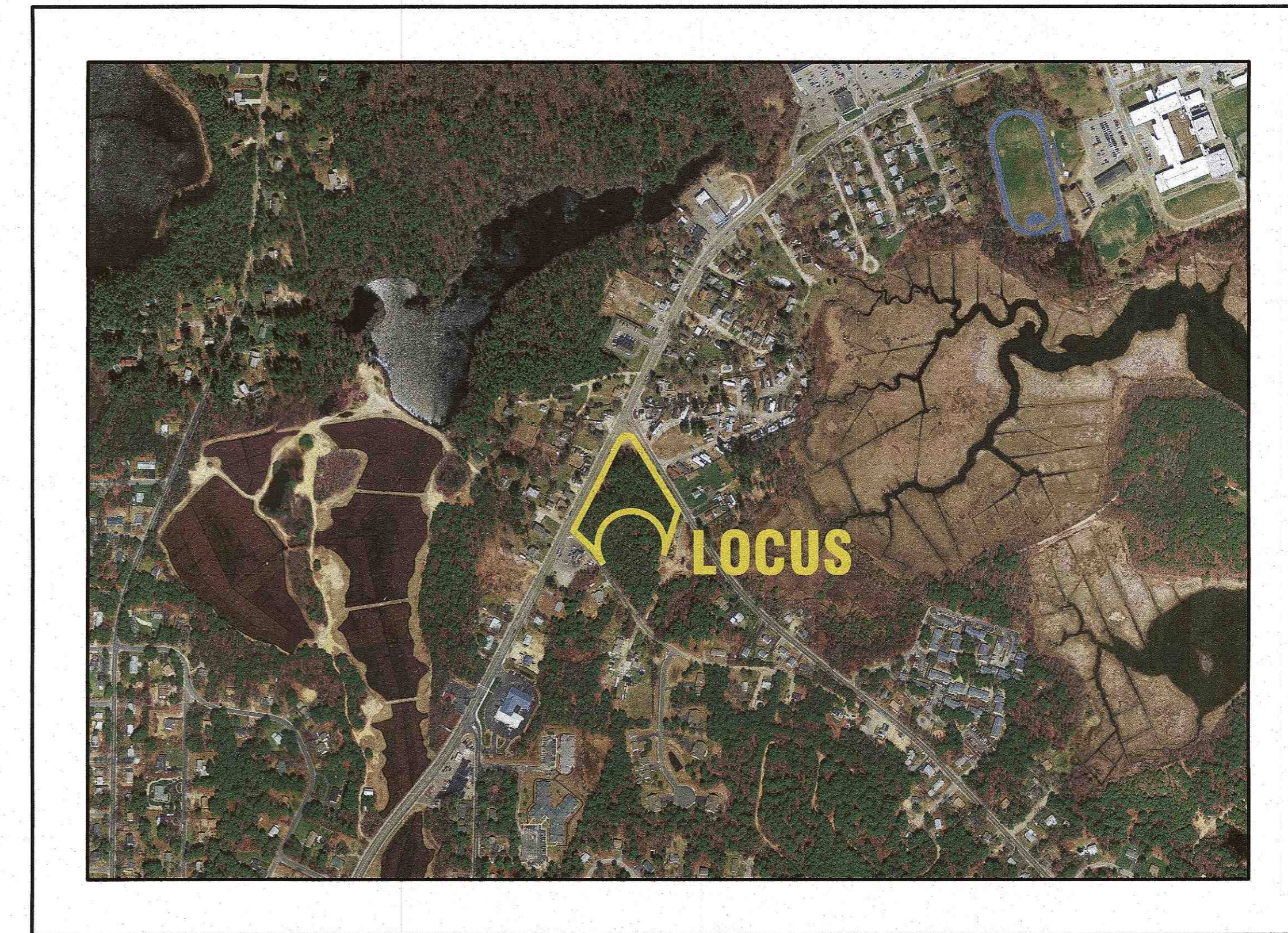
## SITE DEVELOPMENT PLAN 242 MARION ROAD WAREHAM, MASSACHUSETTS

OWNER: THE FAMILY PANTRY-DAMIEN'S PLACE CORP.  
P.O. BOX 730  
WAREHAM, MA 02538

APPLICANT: DAMIEN'S FOOD PANTRY  
P.O. BOX 730  
WAREHAM, MA 02538



— U.S.G.S. LOCUS PLAN —  
SCALE: 1"=1000'



— AERIAL OVERVIEW —  
SCALE: 1"=500'

### SITE DATA

ZONING DISTRICT: MULTIPLE RESIDENCE 30  
ASSESSOR'S MAP: 56  
ASSESSOR'S LOT: 1004-B  
REQUIRED LOT AREA: 30,000 S.F.  
REQUIRED ROAD FRONTAGE: 150'  
FRONT SETBACK: 20'  
SIDE & REAR SETBACK: 10'  
MAX. PRINCIPAL BUILDING HEIGHT: 35'  
MAX. BUILDING COVERAGE: 25%  
MAX. LOT COVERAGE: NR  
WATER SUPPLY: TOWN WATER  
SANITARY SEWER: TOWN SEWER  
LANDSCAPE BUFFER: 10'

### ZONING DATA

| ZONING TABLE            | ALLOWED     | PROPOSED      |
|-------------------------|-------------|---------------|
| LOT AREA:               | 30,000 S.F. | 108,040± S.F. |
| FRONT SETBACK:          | 20'         | 86'           |
| SIDE SETBACK:           | 10'         | 56.6'         |
| REAR SETBACK:           | 10'         | 84.2'         |
| MAX. BUILDING COVERAGE: | 25%         | 4.6%          |

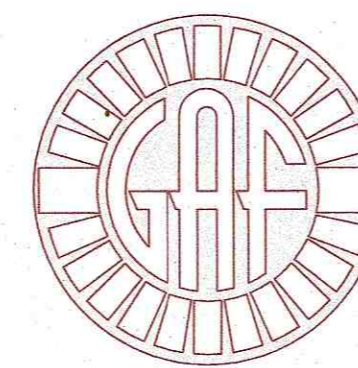
### PARKING DATA:

REQUIRED: 1 SPACE PER 300 S.F. G.F.A. (RETAIL)  
5,000 S.F./300 S.F. = 17 SPACES  
NUMBER OF PARKING SPACES REQUIRED=17  
TOTAL PROVIDED=33

### PLAN INDEX:

| SHEET NO. | DESCRIPTION:           |
|-----------|------------------------|
| 1         | COVER SHEET            |
| 2         | GENERAL NOTES & LEGEND |
| 3         | SITE OVERVIEW PLAN     |
| 4         | EX. CONDITIONS         |
| 5         | LAYOUT & UTILITIES     |
| 6         | GRADING & DRAINAGE     |
| 7         | EROSION CONTROL PLAN   |
| 8         | LANDSCAPING PLAN       |
| 9         | DETAIL SHEET 1         |
| 10        | DETAIL SHEET 2         |
| 11        | DETAIL SHEET 3         |
| 12        | FIRE TRUCK ACCESS PLAN |

FLOOD ZONE DATA:  
THE PROJECT IS WITHIN FLOOD ZONE X & SHADED ZONE X. REFER TO THE F.E.M.A. FLOOD INSURANCE RATE MAP PANEL NUMBER 25023C0488K, DATED: JULY 7, 2021.



**G.A.F. ENGINEERING, INC.**  
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266 MAIN STREET, WAREHAM, MA 02571  
TEL: (508) 295-6600 FAX: (508) 295-6634  
E-MAIL: info@gafenginc.com

AUGUST 4, 2022

PERMIT SET  
(NOT FOR CONSTRUCTION)

|                      |         |      |       |                          |
|----------------------|---------|------|-------|--------------------------|
| DATE: AUGUST 4, 2022 | DATE    | BY   | APP'D | DESCRIPTION              |
| DRAWN BY: JMP        | 4/12/23 | JMP  | WFM   | NO CHANGES THIS SHEET    |
| CHECKED BY: WFM      | 11/8/22 | JMP  | WFM   | NO CHANGES THIS SHEET    |
| JOB NO.: 22-9838     | 11/2/22 | JMP  | WFM   | PER PEER REVIEW COMMENTS |
| SCALE: AS NOTED      | REV.    | DATE | BY    | APP'D                    |

APPROVED BY: *William F. Maden*

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PREPARED FOR:  
DAMIEN'S FOOD PANTRY  
242 MARION ROAD  
WAREHAM, MA  
P.O. BOX 730  
WAREHAM, MA

JOB NO.: 22-9838  
DWG. 1 OF 12



GENERAL NOTES:

- 1. ALL UNDERGROUND UTILITIES SHOWN OR NOT SHOWN WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS AND IN PART FROM FIELD SURVEY AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. BEFORE EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION, OR REPAIRING, ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE MGL CHAPTER 370, ACTS OF 1963. CONTRACTORS MUST CALL DIG-SAFE AT (1-888-DIG-SAFE OR 811) G.A.F. ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.

CONSTRUCTION NOTES:

- 1. IN GENERAL, THE PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EVERY FITTING, CHANGE IN DIRECTION OR DETAIL OF CONSTRUCTION.
- 2. THE LOCATION OF UTILITIES WERE OBTAINED FROM VARIOUS SOURCES OF INFORMATION. THE EXACT LOCATION AND COMPLETENESS IS NOT GUARANTEED. THE CONTRACTOR MUST NOTIFY DIG SAFE PRIOR TO THE START OF CONSTRUCTION (1-888-DIG-SAFE OR 811). G.A.F. ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.

EROSION CONTROL NOTES:

- 1. THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENTATION CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT FROM LEAVING THE SITE. SILT WILL NOT BE ALLOWED BEYOND CONSTRUCTION LIMITS. ADDITIONAL PROTECTION: ON-SITE PROTECTION MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNFORESEEN CONDITIONS OR ACCIDENTS.
- 2. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE SUFFICIENT EROSION AND SEDIMENT CONTROL, ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EROSION CONTROL DEVICES WHICH BECOME INEFFECTIVE.

PERMIT SET (NOT FOR CONSTRUCTION)

DRAINAGE OPERATION AND MAINTENANCE SCHEDULE:

THE OPERATION AND MAINTENANCE (O&M) SCHEDULE DURING THE CONSTRUCTION PERIOD IS THE RESPONSIBILITY OF THE CONTRACTOR. THE OUTLINE BELOW SHALL BE FOLLOWED TO ENSURE THE PROPER CONSTRUCTION AND FUNCTION OF THE DRAINAGE FACILITIES.

- 1. IN CONJUNCTION WITH THE SITE CONSTRUCTION, ALL DRAINAGE STRUCTURES SHALL BE INSTALLED AND THE AFFECTED AREAS STABILIZED (LOAM AND SEED, HYDROSEED, PLANTED, RIP-RAP, ETC.). PERMANENT STABILIZATION OF THESE AREAS SHALL BE STARTED AS SOON AS POSSIBLE.
- 2. EROSION CONTROL SHALL BE PLACED ALONG THE LIMITS OF WORK AND WHERE SHOWN ON THE PLAN.
- 3. ALL EXISTING CATCH BASINS SHALL HAVE A TEMPORARY SILT SACK INSTALLED IN THEM PRIOR TO CONSTRUCTION. ALL PROPOSED CATCH BASINS SHALL HAVE TEMPORARY SILT SACK INSTALLED IN THEM AS SOON AS THE STRUCTURE IS SET. CONTRACTOR SHALL REMOVE AND DISPOSE OF THEM AT THE COMPLETION OF CONSTRUCTION. ALL EXISTING AND PROPOSED CATCH BASINS SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION. IF THERE IS ANY SEDIMENT BUILDUP, THE AFFECTED STRUCTURES SHALL BE CLEANED IMMEDIATELY, AND ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.

POST-CONSTRUCTION OPERATION AND MAINTENANCE PLAN:

UPON THE COMPLETION OF CONSTRUCTION, MAINTENANCE SHALL BE CONDUCTED BY THE OWNER OR OWNER'S AGENT ON THE SITE. THE FOLLOWING SHALL BE CARRIED OUT BY THE RESPONSIBLE PARTY AND SHALL BE ADHERED TO ENSURE THE PROPER OPERATION OF THE DRAINAGE FACILITIES.

- 1. PARKING LOT SWEEPING IS AN EFFECTIVE NONSTRUCTURAL SOURCE CONTROL THAT WILL REMOVE SEDIMENT FROM PAVED SURFACES. PARKING LOT SWEEPING SHOULD BE DONE BY THE USE OF A HIGH EFFICIENCY VACUUM SWEEPER OR GENERATIVE AIR SWEEPER. PARKING LOT SWEEPING SHALL BE DONE TWICE PER YEAR. ONCE REMOVED FROM PAVED SURFACES, THE SWEEPINGS MUST BE HANDLED AND DISPOSED OF PROPERLY IN ONE OF THE WAYS APPROVED BY MASSDEP (SEE POLICY # BAW-18-001: REUSE & DISPOSAL OF STREET SWEEPINGS).
- 2. STONE SPLASH PADS AT PIPE ENDS SHALL BE CLEANED FOUR TIMES PER YEAR AND INSPECTED MONTHLY, ADD STONE IF NECESSARY. ALL SEDIMENTS AND HYDROCARBONS SHOULD BE REMOVED AND DISPOSED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- 3. SEDIMENT FOREBAY IS AN EXCAVATED PIT, BERMED AREA DESIGNED TO SLOW INCOMING STORMWATER RUNOFF AND FACILITATING THE GRAVITY SEPARATION OF SUSPENDED SOLIDS. SEDIMENT FOREBAYS SHALL BE INSPECTED MONTHLY AND CLEANED OUT AT LEAST FOUR (4) TIMES PER YEAR. WHEN MOWING GRASSES, KEEP THE GRASS HEIGHT NO GREATER THAN SIX (6) INCHES. SET MOWER BLADES NO LOWER THAN THREE (3) INCHES. CHECK FOR SIGNS OF RILLING AND GULLING AND REPAIR AS NEEDED. AFTER REMOVING SEDIMENT, REPLACE ANY VEGETATION DAMAGED DURING THE CLEAN-OUT BY EITHER RESEEDING OR RESODDING. WHEN RESEEDING, INCORPORATE PRACTICES SUCH AS HYDROSEEDING WITH A TACKIFIER, BLANKET OR SIMILAR PRACTICE TO ENSURE THAT NO SCOUR OCCURS IN THE FOREBAY, WHILE THE SEEDS GERMINATE AND DEVELOP ROOTS.

DRAINAGE INSTALLATION NOTES:

- 1. ALL DRAINAGE PIPES, UNLESS OTHERWISE NOTED, ARE TO BE ADS N-12 PIPE WITH SOIL TIGHT JOINTS AND FITTINGS. REFER TO PLAN FOR LOCATION, SIZES AND SLOPES.
- 2. ALL ROOF DRAIN PIPES, UNLESS OTHERWISE NOTED, ARE TO BE 6" ADS N-12 PIPE WITH SOIL TIGHT JOINTS AND FITTINGS. MINIMUM SLOPE TO BE 1.00%. REFER TO PLAN FOR LOCATIONS.
- 3. MINIMUM COVER ON PIPES SHALL NOT BE LESS THAN 1.5 FEET.
- 4. ALL PERFORATED PIPE SHALL BE ADS HDPE PIPE WITH AASHTO CLASS II PERFORATION PATTERN.
- 5. ALL WORK AND MATERIAL SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF WAREHAM MUNICIPAL MAINTENANCE DEPARTMENT.

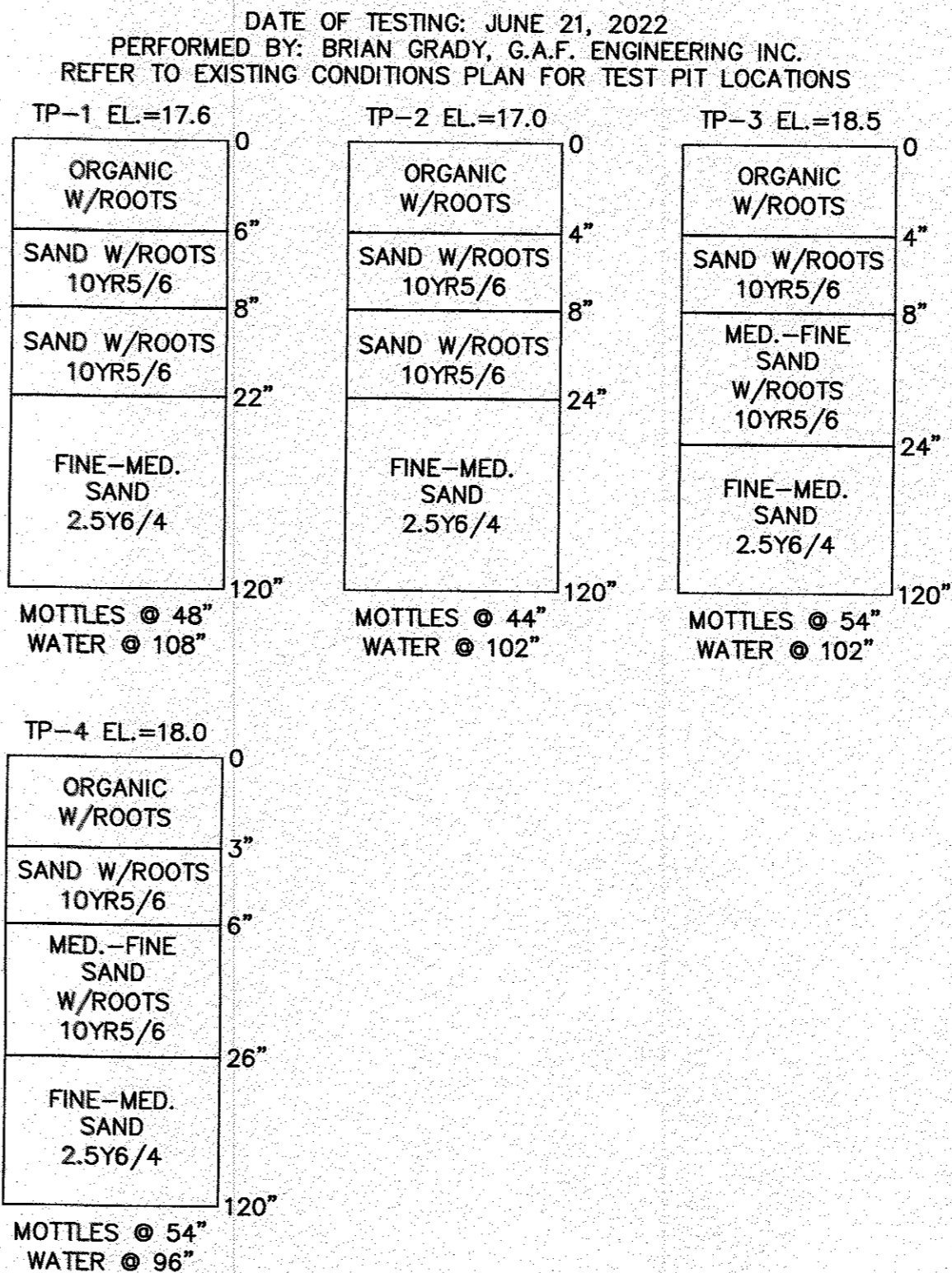
DEMOLITION NOTES:

- 1. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE HIS/HER OWN DETERMINATION OF SUBSURFACE CONDITIONS, INCLUDING THE LOCATION OF ROCK AND THE ACTUAL LOCATION OF UTILITIES OR OTHER FEATURES WHICH MAY AFFECT HIS/HER WORK. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION WILL BE REPORTED TO THE ENGINEER OF RECORD FOR RESOLUTION AND CONSTRUCTION METHOD.
- 2. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND APPARATUS NECESSARY AND SHALL DO ALL WORK REQUIRED TO COMPLETE THE DEMOLITION, REMOVAL, AND ALTERATIONS OF EXISTING FACILITIES, INCLUDING PIPING SYSTEMS AND APPURTENANCES, DRAINAGE, PAVEMENT, LANDSCAPE AND SITE FEATURES ENCOUNTERED DURING THE INSTALLATION AS INDICATED ON THE DRAWINGS, AS HEREIN SPECIFIED, AND/OR AS DIRECTED BY THE DESIGN ENGINEER.
- 3. ALL EQUIPMENT, PIPING, AND OTHER MATERIALS THAT ARE NOT TO BE RELOCATED OR TO BE RETURNED TO THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM, AWAY FROM THE SITE OF THE WORK AND AT HIS OWN EXPENSE.

WATER INSTALLATION NOTES:

- 1. ALL WATER MAINS, SERVICES, GATE VALVES/GATE BOX, CURB STOPS, HYDRANTS, FITTINGS, ETC. & METHOD OF INSTALLATION SHALL CONFORM TO THE WAREHAM FIRE DISTRICT RULES & REGULATIONS.
- 2. WATER SERVICE SHALL BE FLUSHED TESTED & DISINFECTED IN ACCORDANCE WITH THE WAREHAM FIRE DISTRICT REQUIREMENTS.
- 3. CONTRACTOR TO COORDINATE WITH THE WAREHAM FIRE DISTRICT FOR THE INSPECTIONS OF THE WATER MAIN INSTALLATION.
- 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE THE INSTALLATION OF THE WATER SERVICE.
- 5. THE CONTRACTOR SHALL OBTAIN A COPY OF THE REGULATIONS FROM THE WAREHAM FIRE DISTRICT BEFORE PROCEEDING WITH THE INSTALLATION OF THE WATER SERVICE.

TEST PIT DATA



NOTE: WHERE REQUIRED THE CONTRACTOR TO REMOVE ALL UNSUITABLE SOILS AND REPLACE WITH CLEAN SAND AND GRAVEL APPROVED BY DESIGN ENGINEER. SEE PLANS FOR DEPTHS AND LOCATIONS.

ABBREVIATIONS

| AC         | ASBESTIC CONCRETE            |
|------------|------------------------------|
| ADS        | ADVANCED DRAINAGE SYSTEM     |
| APPROX.    | APPROXIMATE                  |
| BC         | BOTTOM OF CURB               |
| BIT. CONC. | BITUMINOUS CONCRETE          |
| BLDRS      | BOULDERS                     |
| BW         | BOTTOM OF WALL               |
| BWV        | BORDERING VEGETATED WETLANDS |
| CB         | CATCH BASIN                  |
| CB/DH      | CONCRETE BOUND/DRILL HOLE    |
| CCB        | CAPE COD BERM                |
| CEM.       | CEMENT                       |
| C.I.       | CAST IRON                    |
| CONC.      | CONCRETE                     |
| C.O.       | CLEAN OUT                    |
| C.O.D.I.   | CEMENT LINED DUCTILE IRON    |
| CMP        | CORRUGATED METAL PIPE        |
| CPP        | CORRUGATED PLASTIC PIPE      |
| DIA        | DIAMETER                     |
| DMH        | DRAIN MANHOLE                |
| D.I.       | DUCTILE IRON                 |
| DCE        | DRAINAGE CONTROL STRUCTURE   |
| E          | ELECTRIC                     |
| ELEV., EL. | ELEVATION                    |
| EOP        | EDGE OF PAVEMENT             |
| EX.        | EXISTING                     |
| F.D.E.S.   | FIRE DEPARTMENT CONNECTION   |
| F.F.E.     | FLARED END SECTION           |
| FOUND      | FINISHED FLOOR ELEVATION     |
| FP         | FIRE PROTECTION              |
| G          | GAS                          |
| GG, GV     | GAS GATE, GAS VALVE          |
| H.C.       | HANDICAP PARKING             |
| H.D.P.E.   | HIGH DENSITY POLYETHYLENE    |
| H.P.       | HIGH POINT                   |
| HYD        | HYDRANT                      |
| INV.       | INVERT                       |
| L.P.       | LOW POINT                    |
| L.M.       | MAXIMUM                      |
| MED        | MEDIUM                       |
| MIN.       | MINIMUM                      |
| N.T.S.     | NOT TO SCALE                 |
| N/P        | NOW OR FORMERLY              |
| OHW        | OVERHEAD WIRE                |
| PCC        | PRECAST CONCRETE CURBING     |
| PVC        | POLYVINYL CHLORIDE PIPE      |
| PROP.      | PROPOSED                     |
| PWW        | PAVED WATERWAY               |
| RCP        | REINFORCED CONCRETE PIPING   |
| R          | RADIUS                       |
| R&D        | REMOVE AND DISPOSE           |
| R&S        | REMOVE AND STOCK             |
| SB/DH      | STONE BOUND/DRILL HOLE       |
| S          | SEWER                        |
| SGC        | SLOPED GRANITE CURBING       |
| SMH        | SEWER MANHOLE                |
| STAT.      | STATION                      |
| TC         | TOP OF CURB                  |
| TW         | TOP OF WALL                  |
| TYP.       | TYPICAL                      |
| T/O/F      | TOP OF FOUNDATION            |
| UP         | UTILITY POLE                 |
| UGC        | UNDERGROUND ELECTRIC         |
| VE         | VERTICAL GRANITE CURB        |
| W          | WATER                        |
| WG, WOS    | WATER GATE, WATER VALVE      |
| WQ         | WATER QUALITY STRUCTURE      |
| WQ CB      | WATER QUALITY CAYCH BASIN    |

DATE: AUGUST 4, 2022  
DRAWN BY: JIMP  
CHECKED BY: WFM  
JOB NO.: 22-9838  
SCALE: N.T.S.  
APPROVED BY: [Signature]  
G.A.F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS  
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TEL: (508) 295-6600 FAX: (508) 295-6634  
E-MAIL: info@gafenrinc.com

| EXISTING | DESC.                   | PROPOSED |
|----------|-------------------------|----------|
| (Symbol) | CONTOURS                | (Symbol) |
| (Symbol) | SPOT GRADES             | (Symbol) |
| (Symbol) | WETLANDS                | (Symbol) |
| (Symbol) | F.E.M.A. FLOOD ZONE     | (Symbol) |
| (Symbol) | DRAIN LINE              | (Symbol) |
| (Symbol) | PERFORATED DRAIN LINE   | (Symbol) |
| (Symbol) | ROOF DRAIN LINE         | (Symbol) |
| (Symbol) | CATCH BASIN (CB)        | (Symbol) |
| (Symbol) | DRAIN MANHOLE (DMH)     | (Symbol) |
| (Symbol) | CLEAN OUT (C.O.)        | (Symbol) |
| (Symbol) | ELECTRIC MANHOLE (EMH)  | (Symbol) |
| (Symbol) | UNDERGROUND UTILITIES   | (Symbol) |
| (Symbol) | OVERHEAD WIRES          | (Symbol) |
| (Symbol) | UTILITY POLE            | (Symbol) |
| (Symbol) | GUY POLE                | (Symbol) |
| (Symbol) | WATER GATE VALVE        | (Symbol) |
| (Symbol) | WATER SHUTOFF/CURB STOP | (Symbol) |
| (Symbol) | HYDRANT                 | (Symbol) |
| (Symbol) | POST INDICATOR VALVE    | (Symbol) |
| (Symbol) | WATER LINE              | (Symbol) |
| (Symbol) | FIRE PROTECTION LINE    | (Symbol) |
| (Symbol) | SEWER MANHOLE (SMH)     | (Symbol) |
| (Symbol) | SEWER LINE              | (Symbol) |
| (Symbol) | FORCE MAIN              | (Symbol) |
| (Symbol) | TREELINE                | (Symbol) |
| (Symbol) | LIGHT POST              | (Symbol) |
| (Symbol) | GAS LINE                | (Symbol) |
| (Symbol) | GAS GATE/VALVE          | (Symbol) |
| (Symbol) | GAS SHUTOFF             | (Symbol) |
| (Symbol) | GAS METER               | (Symbol) |
| (Symbol) | SIGN                    | (Symbol) |
| (Symbol) | FENCE                   | (Symbol) |
| (Symbol) | BOUND                   | (Symbol) |
| (Symbol) | TEST PIT/PERC TEST      | (Symbol) |
| (Symbol) | SILT FENCE              | (Symbol) |
| (Symbol) | GUARD RAIL              | (Symbol) |
| (Symbol) | FLARED END SECTION      | (Symbol) |
| (Symbol) | STONE WALL              | (Symbol) |

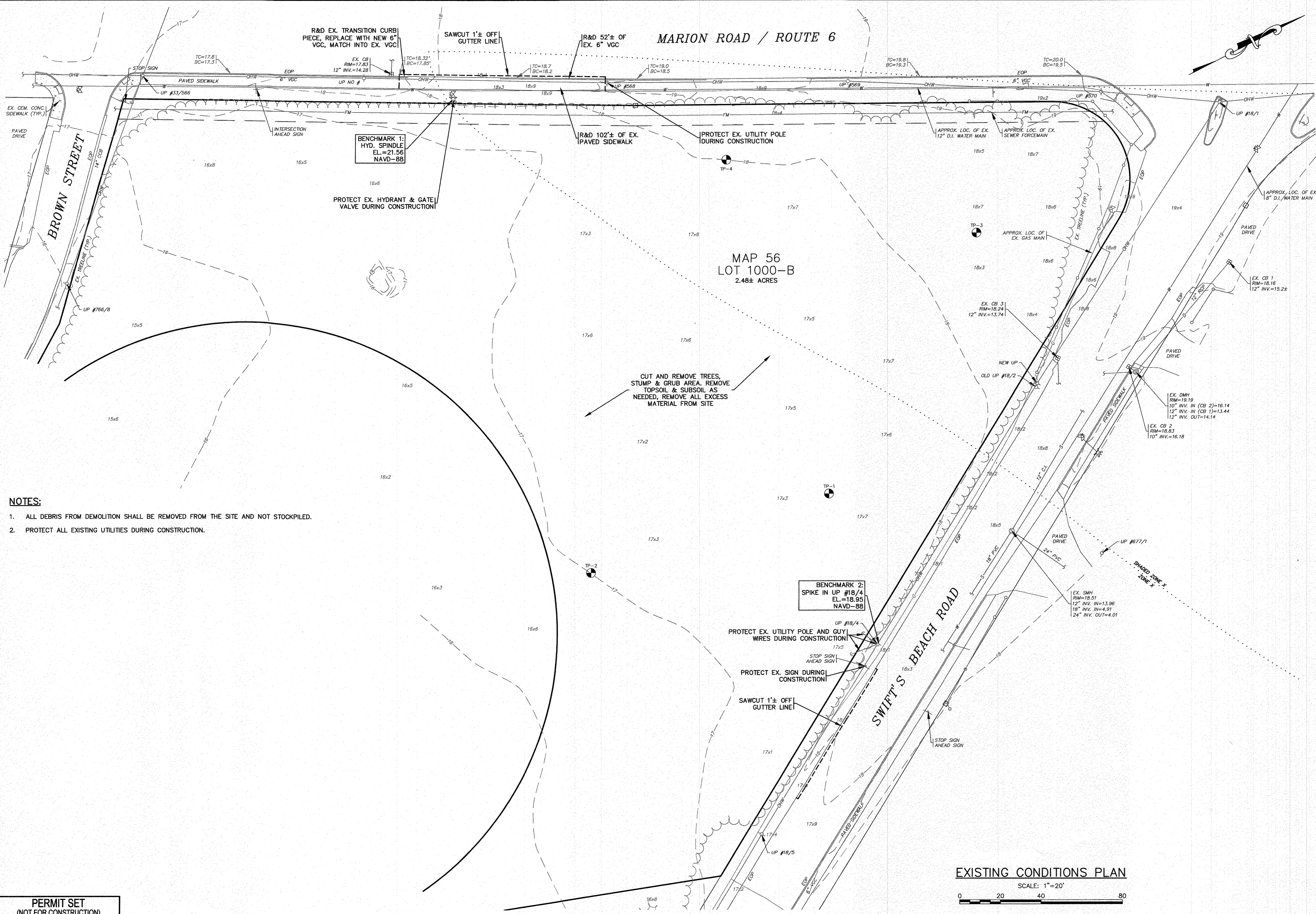
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G.A.F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS  
242 MARION ROAD WAREHAM, MA  
PREPARED FOR:  
DAMIEN'S FOOD PANTRY  
P.O. BOX 730 WAREHAM, MA  
JOB NO.: 22-9838  
DWG. 2 OF 12







MARION ROAD / ROUTE 6



**NOTES:**

1. ALL DEBRIS FROM DEMOLITION SHALL BE REMOVED FROM THE SITE AND NOT STOCKPILED.
2. PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.

**EXISTING CONDITIONS PLAN**

SCALE: 1"=20'

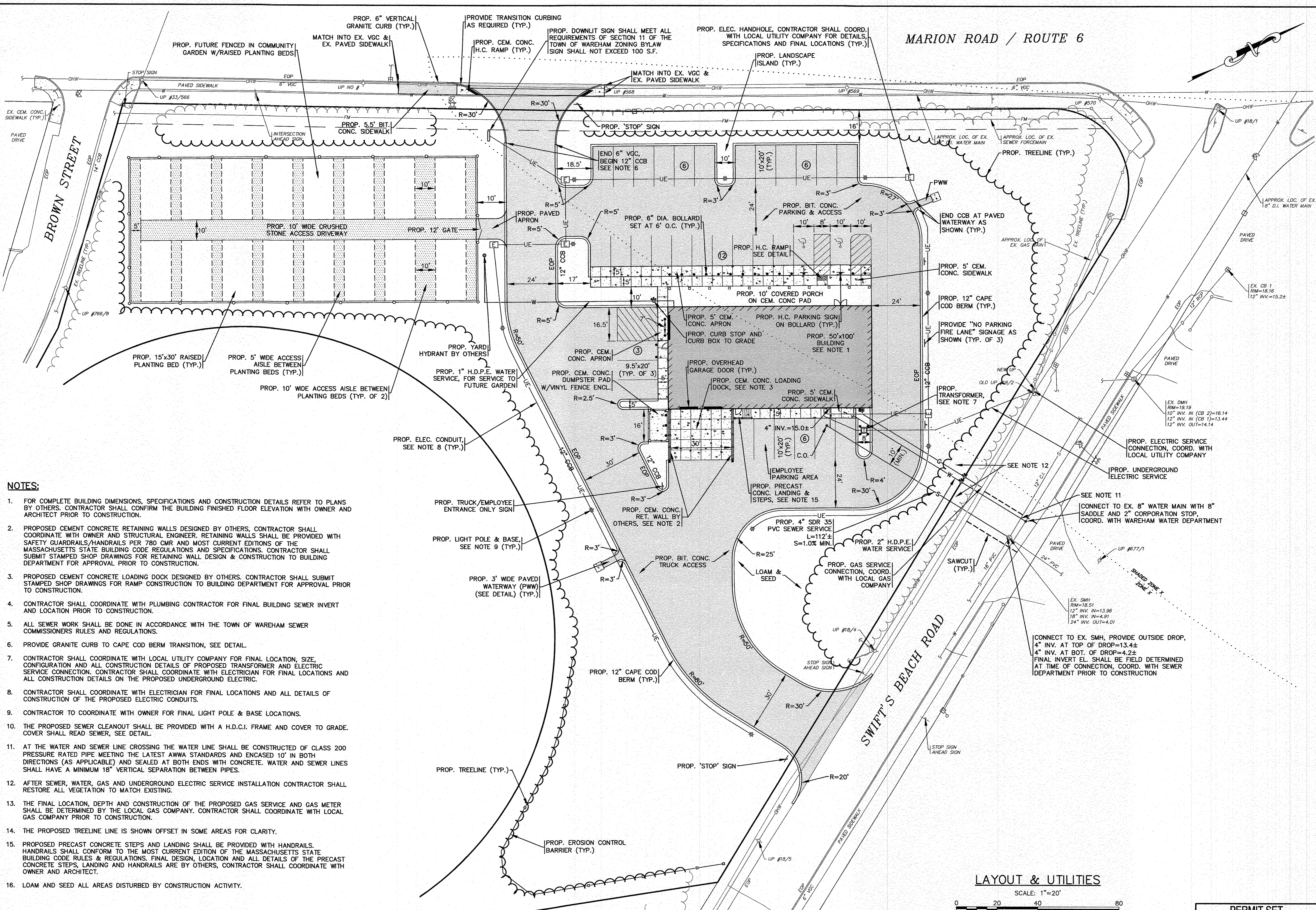


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(NOT FOR CONSTRUCTION)

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|---|---------------------------------|--|---------------------------------|---------------------------------|
| DATE: AUGUST 4, 2022  | DATE: AUGUST 4, 2022            | DATE: AUGUST 4, 2022   | DATE: AUGUST 4, 2022            | DATE: AUGUST 4, 2022            |
| DRAWN BY: JMP   | DRAWN BY: JMP                   | DRAWN BY: JMP  | DRAWN BY: JMP                   | DRAWN BY: JMP                   |
| CHECKED BY: WFM   | CHECKED BY: WFM                 | CHECKED BY: WFM  | CHECKED BY: WFM                 | CHECKED BY: WFM                 |
| JOB NO.: 22-9838  | JOB NO.: 22-9838                | JOB NO.: 22-9838   | JOB NO.: 22-9838                | JOB NO.: 22-9838                |
| SCALE: 1" = 20'   | SCALE: 1" = 20'                 | SCALE: 1" = 20'  | SCALE: 1" = 20'                 | SCALE: 1" = 20'                 |
| APPROVED BY: <i>[Signature]</i>   | APPROVED BY: <i>[Signature]</i> | APPROVED BY: <i>[Signature]</i>  | APPROVED BY: <i>[Signature]</i> | APPROVED BY: <i>[Signature]</i> |
| <b>G.A.F. ENGINEERING, INC.</b><br>PROFESSIONAL ENGINEERS & LAND SURVEYORS<br>286 MAIN STREET WAREHAM, MA 02571<br>TEL: (508) 295-6600 FAX: (508) 295-6654<br>E-MAIL: info@gafeng.com |                                 | RESPONSIBLE ENGINEER: <i>[Signature]</i><br>REGISTERED PROFESSIONAL ENGINEER<br>WILLIAM WARDEN<br>NO. 9389<br>STATE OF MASSACHUSETTS |                                 |                                 |
| SITE DEVELOPMENT PLAN<br>EXISTING CONDITIONS PLAN<br>WAREHAM, MA  |                                 | PREPARED FOR:<br><b>DAMIEN'S FOOD PANTRY</b><br>WAREHAM, MA<br>P.O. BOX 730  |                                 |                                 |
| JOB NO.: 22-9838  |                                 | JOB NO.: 22-9838   |                                 |                                 |
| DWG. 4 OF 12  |                                 | DWG. 4 OF 12   |                                 |                                 |



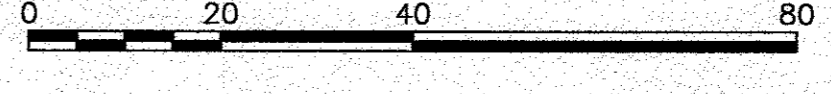
MARION ROAD / ROUTE 6



- NOTES:**
- FOR COMPLETE BUILDING DIMENSIONS, SPECIFICATIONS AND CONSTRUCTION DETAILS REFER TO PLANS BY OTHERS. CONTRACTOR SHALL CONFIRM THE BUILDING FINISHED FLOOR ELEVATION WITH OWNER AND ARCHITECT PRIOR TO CONSTRUCTION.
  - PROPOSED CEMENT CONCRETE RETAINING WALLS DESIGNED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH OWNER AND STRUCTURAL ENGINEER. RETAINING WALLS SHALL BE PROVIDED WITH SAFETY GUARDRAILS/HANDRAILS PER 780 CMR AND MOST CURRENT EDITIONS OF THE MASSACHUSETTS STATE BUILDING CODE REGULATIONS AND SPECIFICATIONS. CONTRACTOR SHALL SUBMIT STAMPED SHOP DRAWINGS FOR RETAINING WALL DESIGN & CONSTRUCTION TO BUILDING DEPARTMENT FOR APPROVAL PRIOR TO CONSTRUCTION.
  - PROPOSED CEMENT CONCRETE LOADING DOCK DESIGNED BY OTHERS. CONTRACTOR SHALL SUBMIT STAMPED SHOP DRAWINGS FOR RAMP CONSTRUCTION TO BUILDING DEPARTMENT FOR APPROVAL PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR FOR FINAL BUILDING SEWER INVERT AND LOCATION PRIOR TO CONSTRUCTION.
  - ALL SEWER WORK SHALL BE DONE IN ACCORDANCE WITH THE TOWN OF WAREHAM SEWER COMMISSIONERS RULES AND REGULATIONS.
  - PROVIDE GRANITE CURB TO CAPE COD BERM TRANSITION, SEE DETAIL.
  - CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR FINAL LOCATION, SIZE, CONFIGURATION AND ALL CONSTRUCTION DETAILS OF PROPOSED TRANSFORMER AND ELECTRIC SERVICE CONNECTION. CONTRACTOR SHALL COORDINATE WITH ELECTRICIAN FOR FINAL LOCATIONS AND ALL CONSTRUCTION DETAILS ON THE PROPOSED UNDERGROUND ELECTRIC.
  - CONTRACTOR SHALL COORDINATE WITH ELECTRICIAN FOR FINAL LOCATIONS AND ALL DETAILS OF CONSTRUCTION OF THE PROPOSED ELECTRIC CONDUITS.
  - CONTRACTOR TO COORDINATE WITH OWNER FOR FINAL LIGHT POLE & BASE LOCATIONS.
  - THE PROPOSED SEWER CLEANOUT SHALL BE PROVIDED WITH A H.D.C.I. FRAME AND COVER TO GRADE. COVER SHALL READ SEWER, SEE DETAIL.
  - AT THE WATER AND SEWER LINE CROSSING THE WATER LINE SHALL BE CONSTRUCTED OF CLASS 200 PRESSURE RATED PIPE MEETING THE LATEST AWWA STANDARDS AND ENCASED 10' IN BOTH DIRECTIONS (AS APPLICABLE) AND SEALED AT BOTH ENDS WITH CONCRETE. WATER AND SEWER LINES SHALL HAVE A MINIMUM 18" VERTICAL SEPARATION BETWEEN PIPES.
  - AFTER SEWER, WATER, GAS AND UNDERGROUND ELECTRIC SERVICE INSTALLATION CONTRACTOR SHALL RESTORE ALL VEGETATION TO MATCH EXISTING.
  - THE FINAL LOCATION, DEPTH AND CONSTRUCTION OF THE PROPOSED GAS SERVICE AND GAS METER SHALL BE DETERMINED BY THE LOCAL GAS COMPANY. CONTRACTOR SHALL COORDINATE WITH LOCAL GAS COMPANY PRIOR TO CONSTRUCTION.
  - THE PROPOSED TREELINE LINE IS SHOWN OFFSET IN SOME AREAS FOR CLARITY.
  - PROPOSED PRECAST CONCRETE STEPS AND LANDING SHALL BE PROVIDED WITH HANDRAILS. HANDRAILS SHALL CONFORM TO THE MOST CURRENT EDITION OF THE MASSACHUSETTS STATE BUILDING CODE RULES & REGULATIONS. FINAL DESIGN, LOCATION AND ALL DETAILS OF THE PRECAST CONCRETE STEPS, LANDING AND HANDRAILS ARE BY OTHERS. CONTRACTOR SHALL COORDINATE WITH OWNER AND ARCHITECT.
  - LOAM AND SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITY.

LAYOUT & UTILITIES

SCALE: 1"=20'

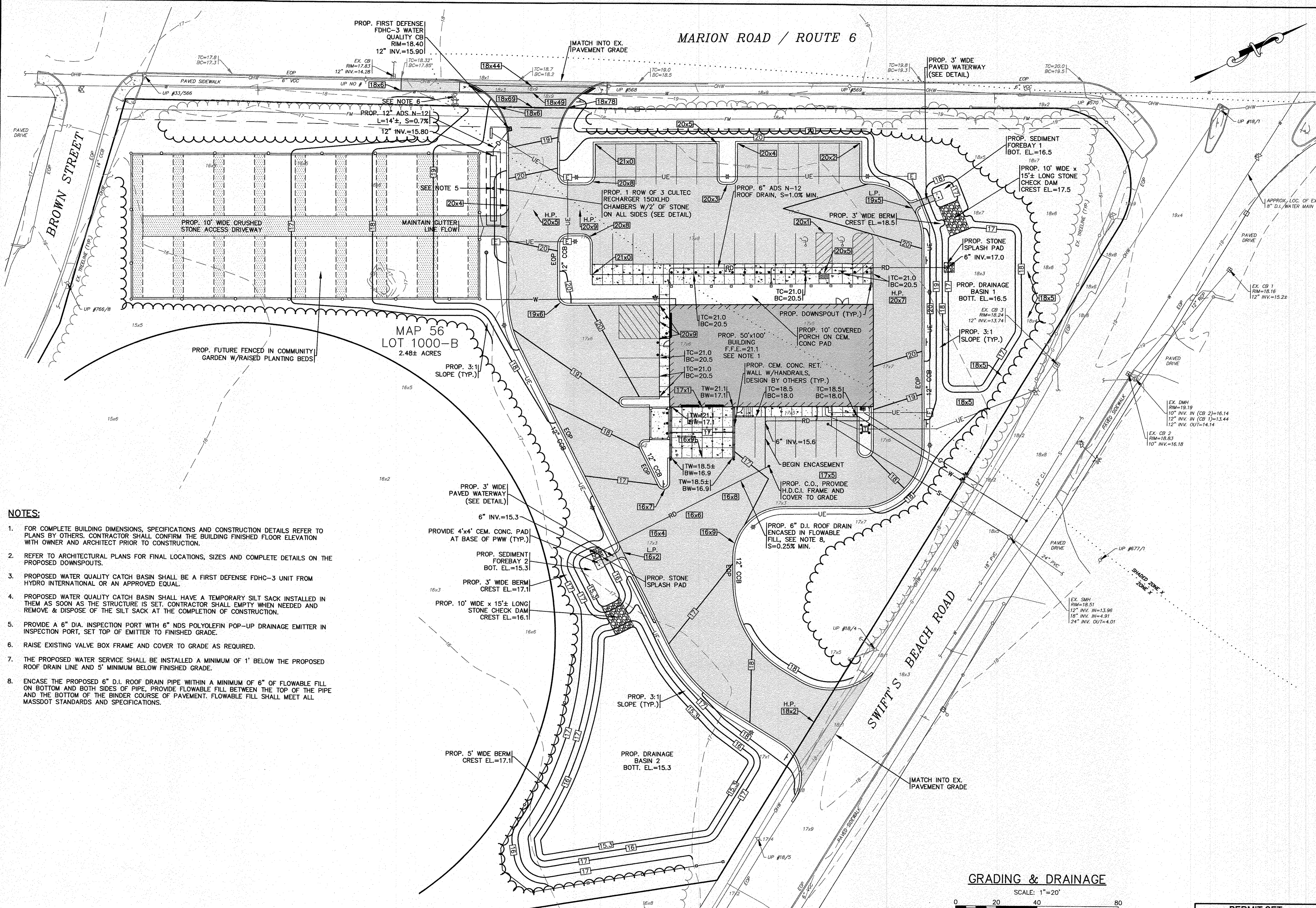


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| DATE: AUGUST 4, 2022   |                 | APPROVED BY:  |         |
| DRAWN BY: JWP  | CHECKED BY: WFM | DATE: 4/12/23                                       | BY: JWP |
| JOB NO.: 22-9838   | SCALE: 1" = 20' | DATE: 11/2/22                                       | BY: WFM |
| G.A.F. ENGINEERING, INC.<br>PROFESSIONAL ENGINEERS & LAND SURVEYORS<br>266 MAIN STREET - WAREHAM, MA 02574<br>TEL: (508) 295-6600 FAX: (508) 295-6634<br>E-MAIL: info@gafeng.com |                 | DAMIEN'S FOOD PANTRY<br>WAREHAM, MA<br>P.O. BOX 730 |         |
| SITE DEVELOPMENT PLAN<br>LAYOUT & UTILITIES  |                 | DWG. 5 OF 12  |         |
| PERMIT SET<br>(NOT FOR CONSTRUCTION)   |                 | JOB NO.: 22-9838                                    |         |

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MARION ROAD / ROUTE 6



- NOTES:**
- FOR COMPLETE BUILDING DIMENSIONS, SPECIFICATIONS AND CONSTRUCTION DETAILS REFER TO PLANS BY OTHERS. CONTRACTOR SHALL CONFIRM THE BUILDING FINISHED FLOOR ELEVATION WITH OWNER AND ARCHITECT PRIOR TO CONSTRUCTION.
  - REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATIONS, SIZES AND COMPLETE DETAILS ON THE PROPOSED DOWNSPOUTS.
  - PROPOSED WATER QUALITY CATCH BASIN SHALL BE A FIRST DEFENSE FDHC-3 UNIT FROM HYDRO INTERNATIONAL OR AN APPROVED EQUAL.
  - PROPOSED WATER QUALITY CATCH BASIN SHALL HAVE A TEMPORARY SILT SACK INSTALLED IN THEM AS SOON AS THE STRUCTURE IS SET. CONTRACTOR SHALL EMPTY WHEN NEEDED AND REMOVE & DISPOSE OF THE SILT SACK AT THE COMPLETION OF CONSTRUCTION.
  - PROVIDE A 6" DIA. INSPECTION PORT WITH 6" NDS POLYOLEFIN POP-UP DRAINAGE EMITTER IN INSPECTION PORT, SET TOP OF EMITTER TO FINISHED GRADE.
  - RAISE EXISTING VALVE BOX FRAME AND COVER TO GRADE AS REQUIRED.
  - THE PROPOSED WATER SERVICE SHALL BE INSTALLED A MINIMUM OF 1' BELOW THE PROPOSED ROOF DRAIN LINE AND 5' MINIMUM BELOW FINISHED GRADE.
  - ENCASE THE PROPOSED 6" D.I. ROOF DRAIN PIPE WITHIN A MINIMUM OF 6" OF FLOWABLE FILL ON BOTTOM AND BOTH SIDES OF PIPE. PROVIDE FLOWABLE FILL BETWEEN THE TOP OF THE PIPE AND THE BOTTOM OF THE BINDER COURSE OF PAVEMENT. FLOWABLE FILL SHALL MEET ALL MASSDOT STANDARDS AND SPECIFICATIONS.

**GRADING & DRAINAGE**  
SCALE: 1"=20'

PERMIT SET  
(NOT FOR CONSTRUCTION)

**G.A.F. ENGINEERING, INC.**  
PROFESSIONAL ENGINEERS & LAND SURVEYORS  
266 MAIN STREET - WAREHAM, MA 02571  
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E-MAIL: info@gafeng.com

**DATE:** AUGUST 4, 2022  
**DRAWN BY:** JMP  
**CHECKED BY:** WFM  
**JOB NO.:** 22-9838  
**SCALE:** 1" = 20'

| REV. | DATE    | BY  | APP'D | DESCRIPTION  |
|------|---------|-----|-------|--|
| 1    | 11/2/22 | JMP | WFM   | PER PEER REVIEW COMMENTS   |
| 2    | 11/8/22 | JMP | WFM   | REV. GRADING   |
| 3    | 4/12/23 | JMP | WFM   | ADDED WATER QUALITY CB, CULTEC CHAMBERS, SITE GRADING, BASIN 1 EL'S, REAR BUILDING ROOF DRAIN PIPING |

**PREPARED FOR:** DAMIEN'S FOOD PANTRY  
242 MARION ROAD WAREHAM, MA  
P.O. BOX 730 WAREHAM, MA

**JOB NO.:** 22-9838  
**DWG.:** 6 OF 12

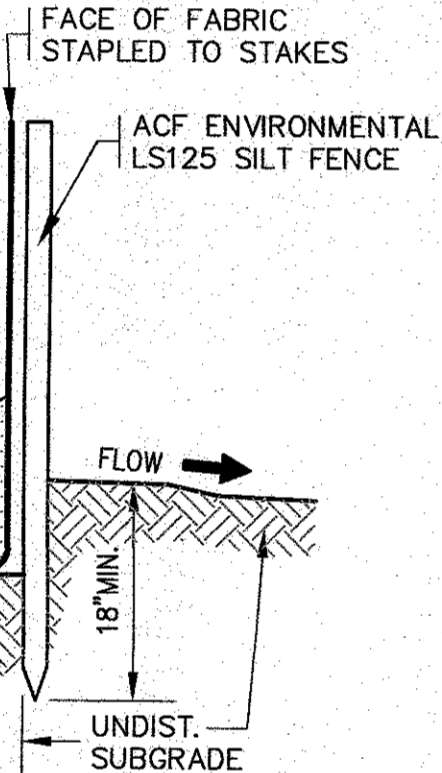
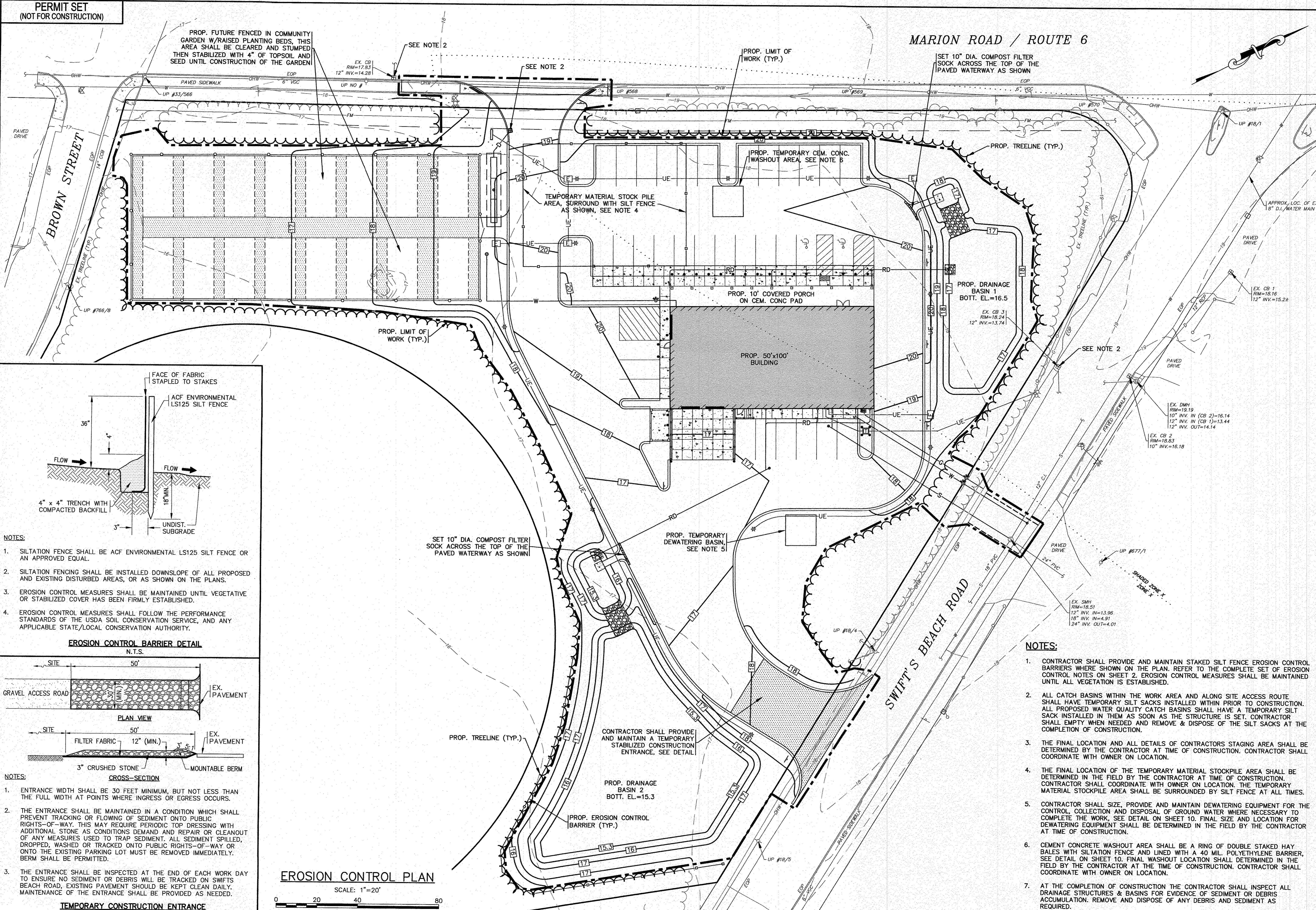
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(NOT FOR CONSTRUCTION)

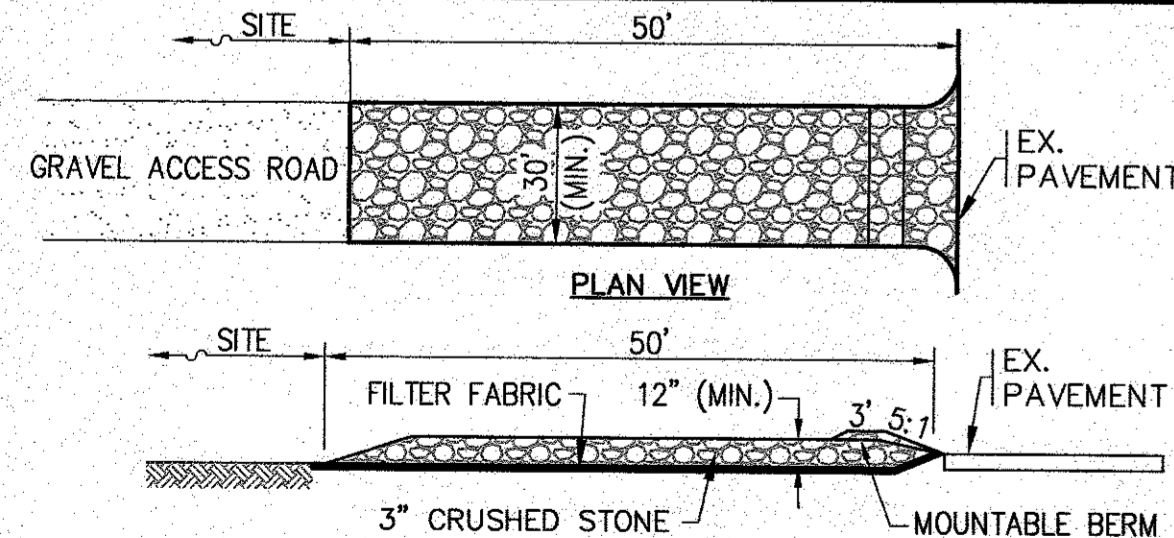
MARION ROAD / ROUTE 6

PROP. FUTURE FENCED IN COMMUNITY GARDEN W/RAISED PLANTING BEDS, THIS AREA SHALL BE CLEARED AND STUMPED THEN STABILIZED WITH 4" OF TOPSOIL AND SEED UNTIL CONSTRUCTION OF THE GARDEN



- NOTES:**
- SILTATION FENCE SHALL BE ACF ENVIRONMENTAL LS125 SILT FENCE OR AN APPROVED EQUAL.
  - SILTATION FENCING SHALL BE INSTALLED DOWNSLOPE OF ALL PROPOSED AND EXISTING DISTURBED AREAS, OR AS SHOWN ON THE PLANS.
  - EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATIVE OR STABILIZED COVER HAS BEEN FIRMLY ESTABLISHED.
  - EROSION CONTROL MEASURES SHALL FOLLOW THE PERFORMANCE STANDARDS OF THE USDA SOIL CONSERVATION SERVICE, AND ANY APPLICABLE STATE/LOCAL CONSERVATION AUTHORITY.

**EROSION CONTROL BARRIER DETAIL**  
N.T.S.

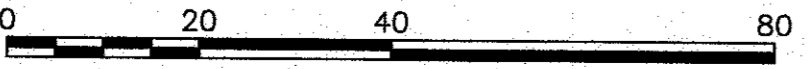


- NOTES:**
- ENTRANCE WIDTH SHALL BE 30 FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
  - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY OR ONTO THE EXISTING PARKING LOT MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED.
  - THE ENTRANCE SHALL BE INSPECTED AT THE END OF EACH WORK DAY TO ENSURE NO SEDIMENT OR DEBRIS WILL BE TRACKED ON SWIFTS BEACH ROAD, EXISTING PAVEMENT SHOULD BE KEPT CLEAN DAILY. MAINTENANCE OF THE ENTRANCE SHALL BE PROVIDED AS NEEDED.

**TEMPORARY CONSTRUCTION ENTRANCE**  
N.T.S.

**EROSION CONTROL PLAN**

SCALE: 1"=20'

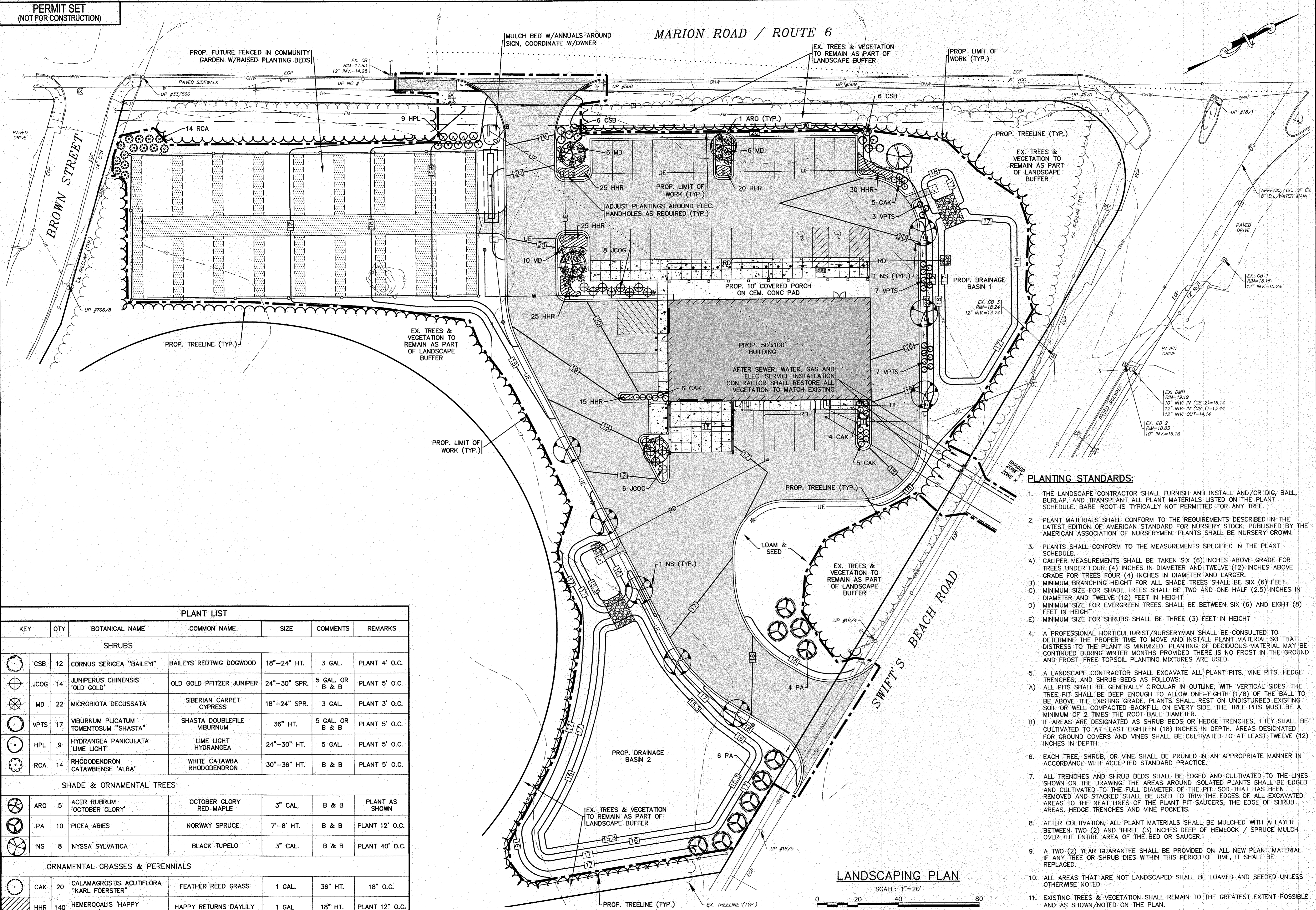


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|--|--------------------------|---|
| DATE: AUGUST 4, 2022                   | APPROVED BY:             |   |
| DRAWN BY: JMP                          | APPROVED BY: [Signature] |   |
| CHECKED BY: WFM                        | DATE: AUGUST 4, 2022     | <b>G.A.F. ENGINEERING, INC.</b><br>PROFESSIONAL ENGINEERS & LAND SURVEYORS<br>266 MAIN STREET - WAREHAM, MA 02571<br>TEL: (508) 295-6600 FAX: (508) 295-6634<br>E-MAIL: info@gafengr.com  |
| JOB NO.: 22-9838                       | DATE: AUGUST 4, 2022     |   |
| SCALE: 1" = 20'                        | DATE: AUGUST 4, 2022     | COPYRIGHT © 2022 G.A.F. ENGINEERING, INC. NO PART OF THIS DOCUMENT MAY BE REPRODUCED, COPIED, OR TRANSMITTED BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE EXPRESS WRITTEN CONSENT OF G.A.F. ENGINEERING, INC. WITH THE EXCEPTION OF ANY OFFICIAL BUSINESS UNDER ITS JURISDICTION. ANY MODIFICATIONS MADE TO THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN CONSENT OF G.A.F. ENGINEERING, INC. SHALL RENDER IT UNUSABLE. |
| REV. PER DRAINAGE CHANGES, MISC. NOTES | DATE: AUGUST 4, 2022     |   |
| REV. LIMIT OF WORK LINE                | DATE: AUGUST 4, 2022     | <b>SITE DEVELOPMENT PLAN</b><br><b>EROSION CONTROL PLAN</b><br>WAREHAM, MA  |
| REV. PER REVIEW COMMENTS               | DATE: AUGUST 4, 2022     |   |
| BY: JMP                                | DATE: AUGUST 4, 2022     | PREPARED FOR:<br><b>DAMIEN'S FOOD PANTRY</b><br>WAREHAM, MA<br>P.O. BOX 730   |
| BY: WFM                                | DATE: AUGUST 4, 2022     |   |
| BY: JMP                                | DATE: AUGUST 4, 2022     | JOB NO.: 22-9838<br><b>DWG.</b><br>7 OF 12  |
| BY: WFM                                | DATE: AUGUST 4, 2022     |   |



PERMIT SET  
(NOT FOR CONSTRUCTION)

MARION ROAD / ROUTE 6



PLANT LIST

| KEY  | QTY | BOTANICAL NAME                           | COMMON NAME                | SIZE         | COMMENTS        | REMARKS        |
|--|-----|--|----------------------------|--------------|-----------------|----------------|
| <b>SHRUBS</b>                              |     |  |                            |              |                 |                |
| CSB  | 12  | CORNUS SERICEA "BAILEY"                  | BAILEYS REDTWIG DOGWOOD    | 18"-24" HT.  | 3 GAL.          | PLANT 4' O.C.  |
| JCOG                                       | 14  | JUNIPERUS CHINENSIS "OLD GOLD"           | OLD GOLD PFITZER JUNIPER   | 24"-30" SPR. | 5 GAL. OR B & B | PLANT 5' O.C.  |
| MD   | 22  | MICROBIOTA DECUSSATA                     | SIBERIAN CARPET CYPRESS    | 18"-24" SPR. | 3 GAL.          | PLANT 3' O.C.  |
| VPTS                                       | 17  | VIBURNUM Plicatum TOMENTOSUM "SHASTA"    | SHASTA DOUBLEFILE VIBURNUM | 36" HT.      | 5 GAL. OR B & B | PLANT 5' O.C.  |
| HPL  | 9   | HYDRANGEA PANICULATA "LIME LIGHT"        | LIME LIGHT HYDRANGEA       | 24"-30" HT.  | 5 GAL.          | PLANT 5' O.C.  |
| RCA  | 14  | RHODODENDRON CATAWBIENSE "ALBA"          | WHITE CATAWBA RHODODENDRON | 30"-36" HT.  | B & B           | PLANT 5' O.C.  |
| <b>SHADE &amp; ORNAMENTAL TREES</b>        |     |  |                            |              |                 |                |
| ARO  | 5   | ACER RUBRUM "OCTOBER GLORY"              | OCTOBER GLORY RED MAPLE    | 3" CAL.      | B & B           | PLANT AS SHOWN |
| PA   | 10  | PICEA ABIES                              | NORWAY SPRUCE              | 7'-8' HT.    | B & B           | PLANT 12' O.C. |
| NS   | 8   | NYSSA SYLVATICA                          | BLACK TUPELO               | 3" CAL.      | B & B           | PLANT 40' O.C. |
| <b>ORNAMENTAL GRASSES &amp; PERENNIALS</b> |     |  |                            |              |                 |                |
| CAK  | 20  | CALAMAGROSTIS ACUTIFLORA "KARL FOERSTER" | FEATHER REED GRASS         | 1 GAL.       | 36" HT.         | 18" O.C.       |
| HHR  | 140 | HEMEROCALIS "HAPPY RETURNS"              | HAPPY RETURNS DAYLILY      | 1 GAL.       | 18" HT.         | PLANT 12" O.C. |

LANDSCAPING PLAN

SCALE: 1"=20'

PLANTING STANDARDS:

- THE LANDSCAPE CONTRACTOR SHALL FURNISH AND INSTALL AND/OR DIG, BALL, BURLAP, AND TRANSPLANT ALL PLANT MATERIALS LISTED ON THE PLANT SCHEDULE. BARE-ROOT IS TYPICALLY NOT PERMITTED FOR ANY TREE.
- PLANT MATERIALS SHALL CONFORM TO THE REQUIREMENTS DESCRIBED IN THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANTS SHALL BE NURSERY GROWN.
- PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED IN THE PLANT SCHEDULE.
  - CALIPER MEASUREMENTS SHALL BE TAKEN SIX (6) INCHES ABOVE GRADE FOR TREES UNDER FOUR (4) INCHES IN DIAMETER AND TWELVE (12) INCHES ABOVE GRADE FOR TREES FOUR (4) INCHES IN DIAMETER AND LARGER.
  - MINIMUM BRANCHING HEIGHT FOR ALL SHADE TREES SHALL BE SIX (6) FEET.
  - MINIMUM SIZE FOR SHADE TREES SHALL BE TWO AND ONE HALF (2.5) INCHES IN DIAMETER AND TWELVE (12) FEET IN HEIGHT.
  - MINIMUM SIZE FOR EVERGREEN TREES SHALL BE BETWEEN SIX (6) AND EIGHT (8) FEET IN HEIGHT.
  - MINIMUM SIZE FOR SHRUBS SHALL BE THREE (3) FEET IN HEIGHT.
- A PROFESSIONAL HORTICULTURIST/NURSERYMAN SHALL BE CONSULTED TO DETERMINE THE PROPER TIME TO MOVE AND INSTALL PLANT MATERIAL SO THAT DISTRESS TO THE PLANT IS MINIMIZED. PLANTING OF DECIDUOUS MATERIAL MAY BE CONTINUED DURING WINTER MONTHS PROVIDED THERE IS NO FROST IN THE GROUND AND FROST-FREE TOPSOIL PLANTING MIXTURES ARE USED.
- A LANDSCAPE CONTRACTOR SHALL EXCAVATE ALL PLANT PITS, VINE PITS, HEDGE TRENCHES, AND SHRUB BEDS AS FOLLOWS:
  - ALL PITS SHALL BE GENERALLY CIRCULAR IN OUTLINE, WITH VERTICAL SIDES. THE TREE PIT SHALL BE DEEP ENOUGH TO ALLOW ONE-EIGHTH (1/8) OF THE BALL TO BE ABOVE THE EXISTING GRADE. PLANTS SHALL REST ON UNDISTURBED EXISTING SOIL OR WELL COMPACTED BACKFILL ON EVERY SIDE. THE TREE PITS MUST BE A MINIMUM OF 2 TIMES THE ROOT BALL DIAMETER.
  - IF AREAS ARE DESIGNATED AS SHRUB BEDS OR HEDGE TRENCHES, THEY SHALL BE CULTIVATED TO AT LEAST EIGHTEEN (18) INCHES IN DEPTH. AREAS DESIGNATED FOR GROUND COVERS AND VINES SHALL BE CULTIVATED TO AT LEAST TWELVE (12) INCHES IN DEPTH.
- EACH TREE, SHRUB, OR VINE SHALL BE PRUNED IN AN APPROPRIATE MANNER IN ACCORDANCE WITH ACCEPTED STANDARD PRACTICE.
- ALL TRENCHES AND SHRUB BEDS SHALL BE EDGED AND CULTIVATED TO THE LINES SHOWN ON THE DRAWING. THE AREAS AROUND ISOLATED PLANTS SHALL BE EDGED AND CULTIVATED TO THE FULL DIAMETER OF THE PIT. SOIL THAT HAS BEEN REMOVED AND STACKED SHALL BE USED TO TRIM THE EDGES OF ALL EXCAVATED AREAS TO THE NEAT LINES OF THE PLANT PIT SAUCERS, THE EDGE OF SHRUB AREAS, HEDGE TRENCHES AND VINE POCKETS.
- AFTER CULTIVATION, ALL PLANT MATERIALS SHALL BE MULCHED WITH A LAYER BETWEEN TWO (2) AND THREE (3) INCHES DEEP OF HEMLOCK / SPRUCE MULCH OVER THE ENTIRE AREA OF THE BED OR SAUCER.
- A TWO (2) YEAR GUARANTEE SHALL BE PROVIDED ON ALL NEW PLANT MATERIAL. IF ANY TREE OR SHRUB DIES WITHIN THIS PERIOD OF TIME, IT SHALL BE REPLACED.
- ALL AREAS THAT ARE NOT LANDSCAPED SHALL BE LOAMED AND SEEDDED UNLESS OTHERWISE NOTED.
- EXISTING TREES & VEGETATION SHALL REMAIN TO THE GREATEST EXTENT POSSIBLE AND AS SHOWN/NOTED ON THE PLAN.

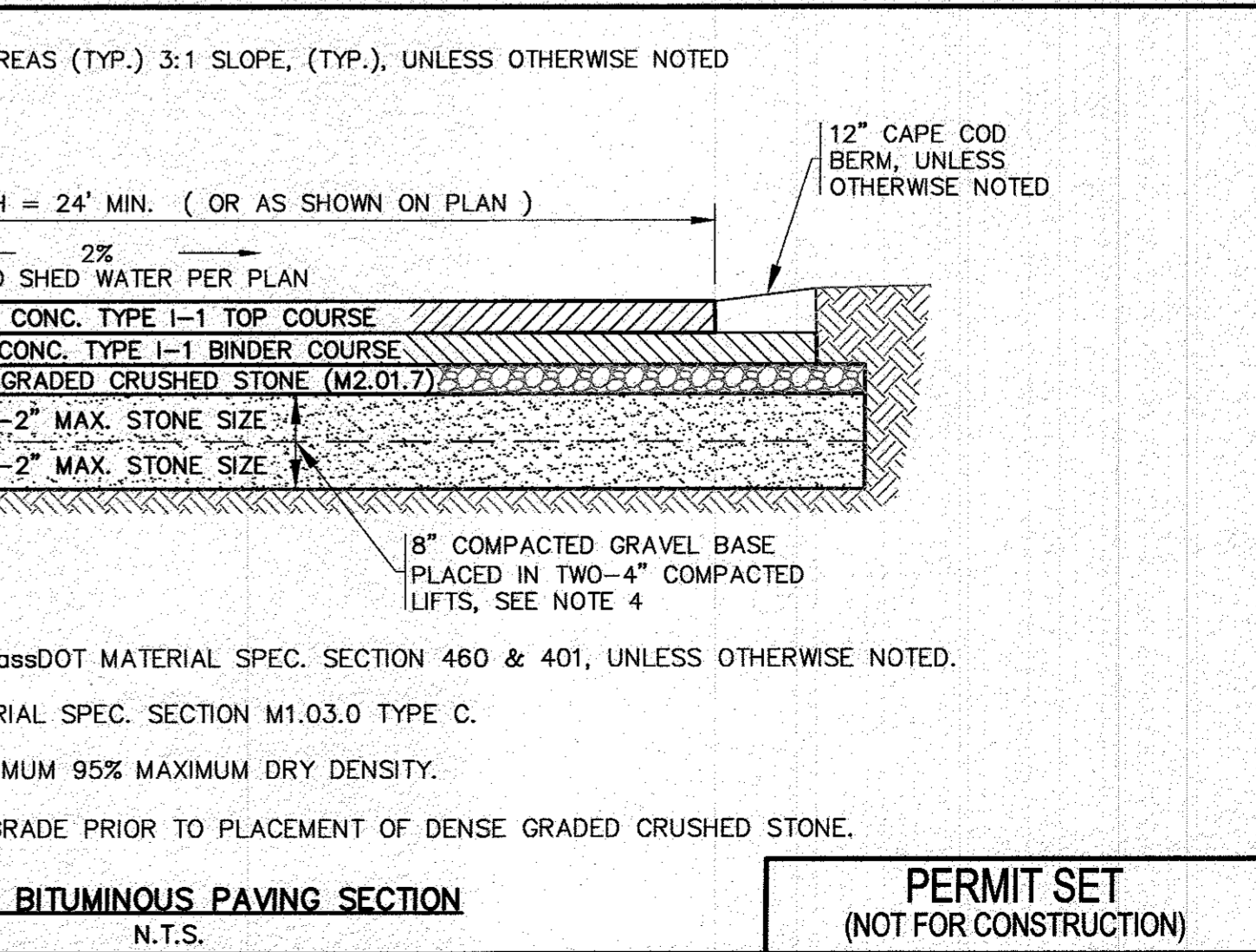
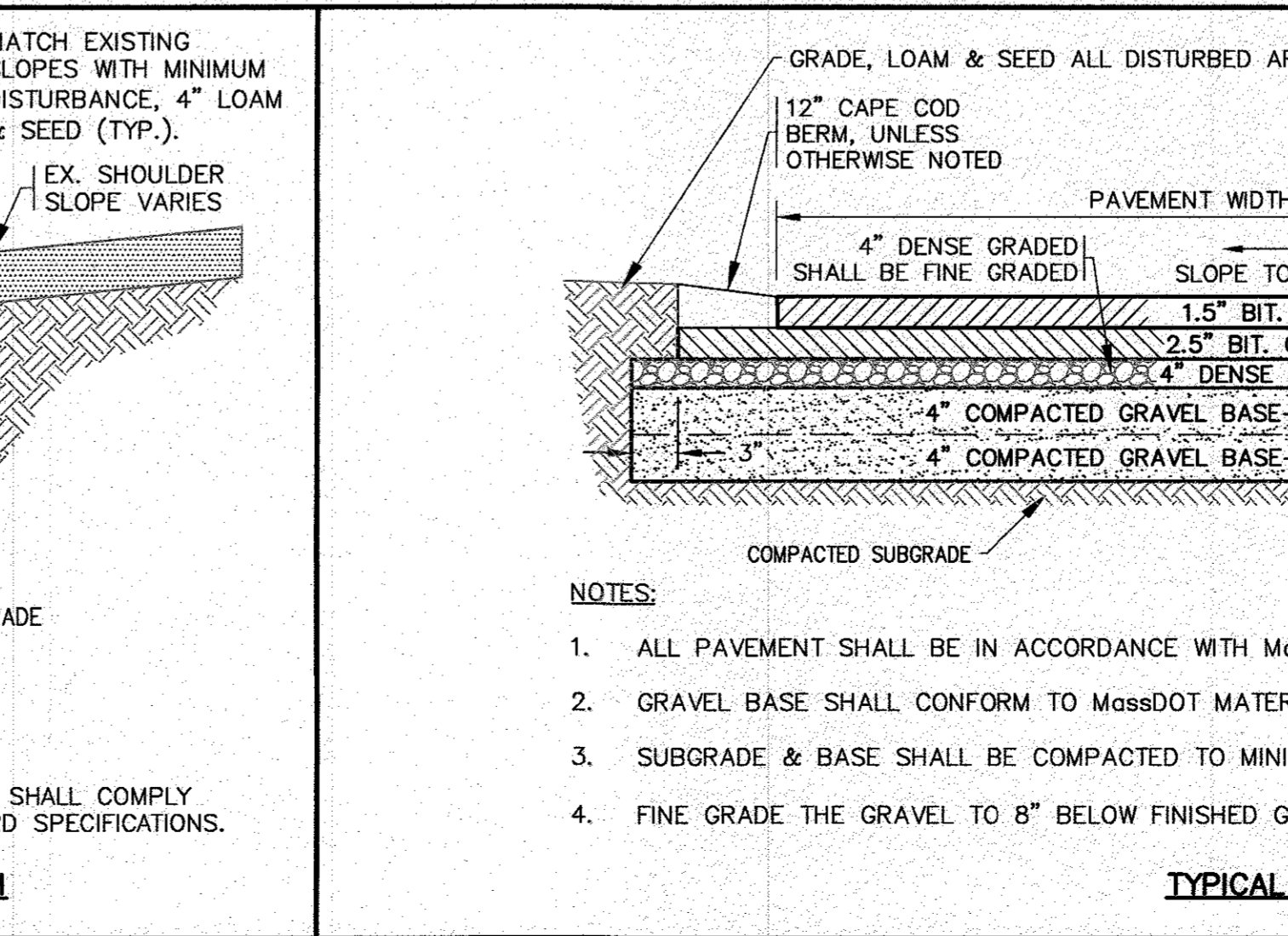
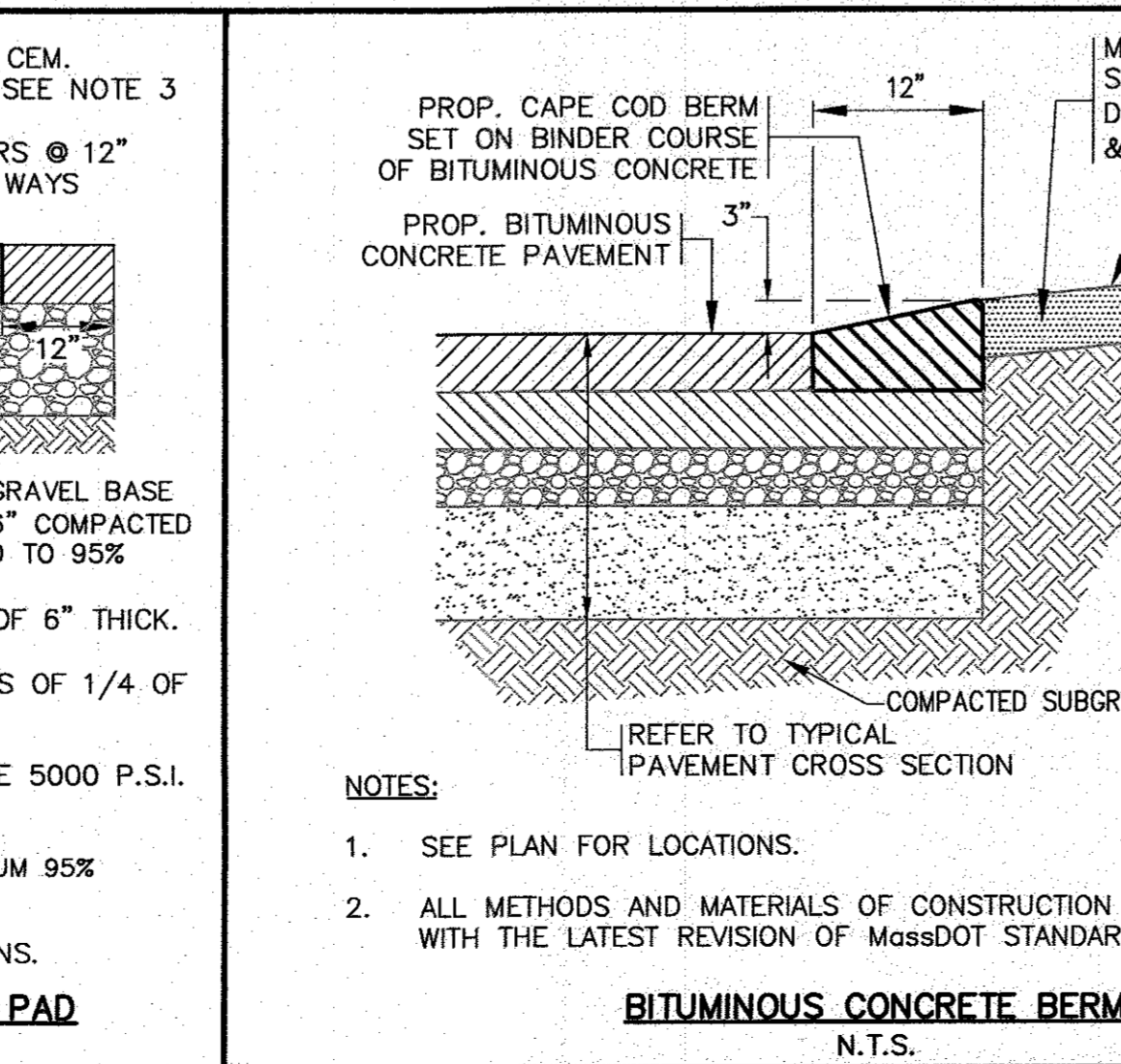
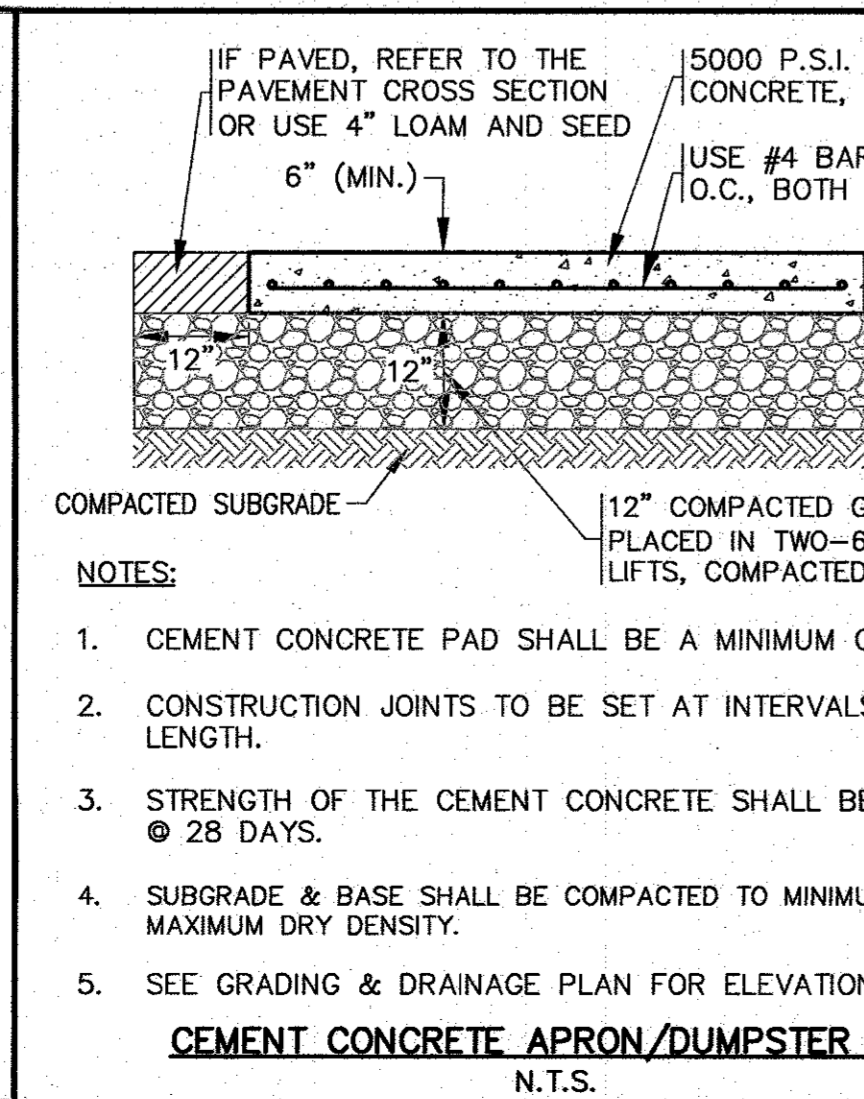
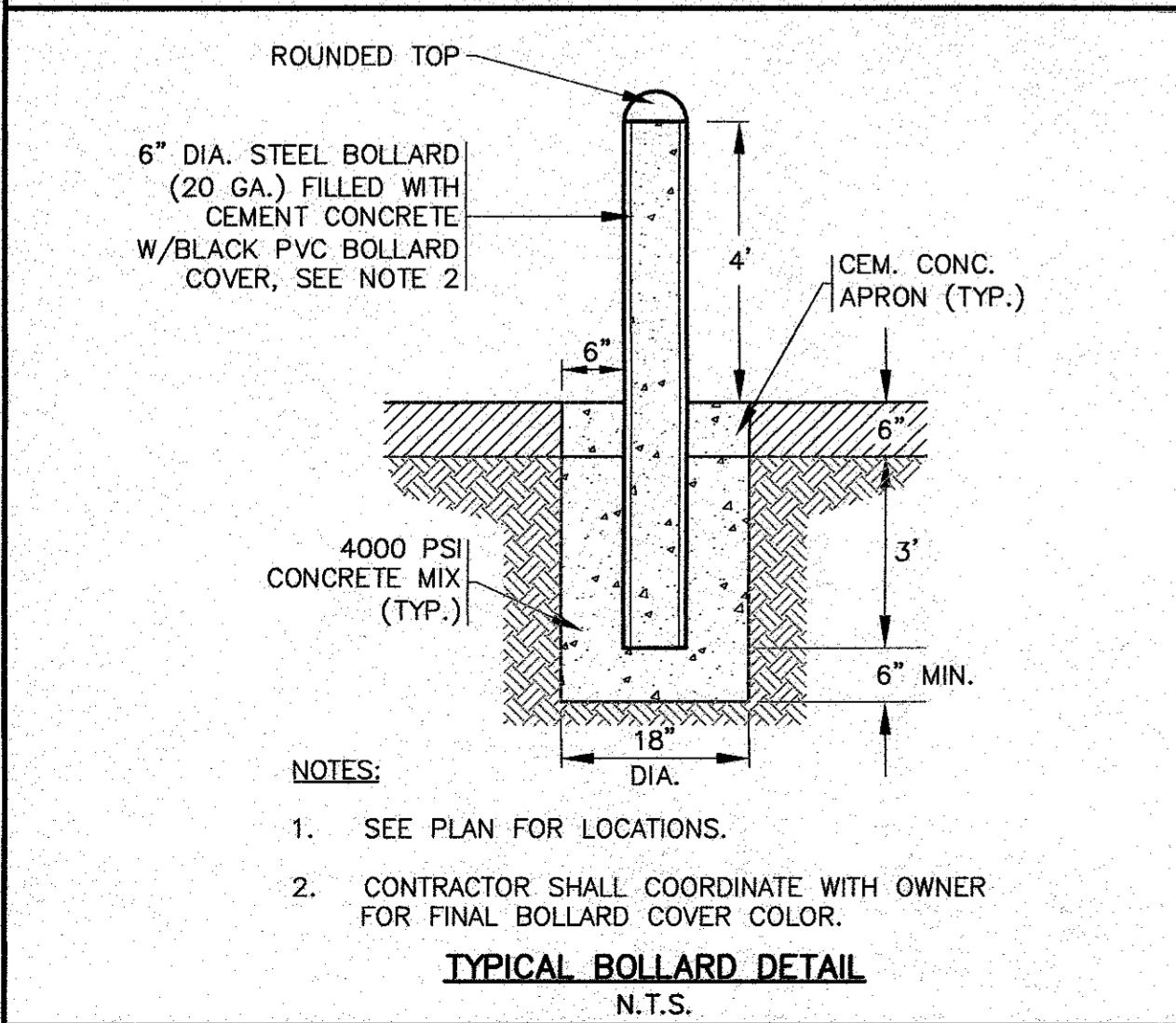
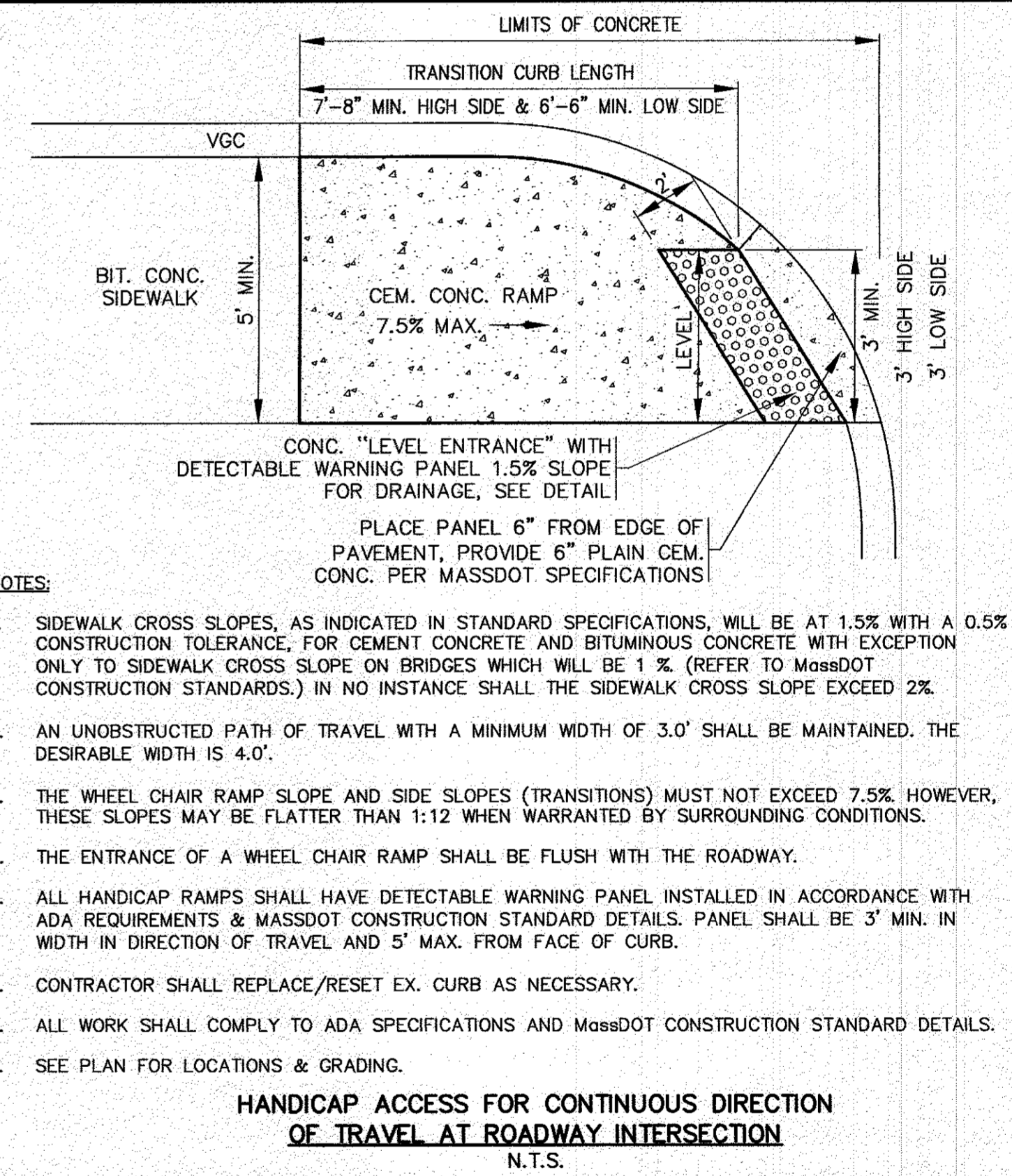
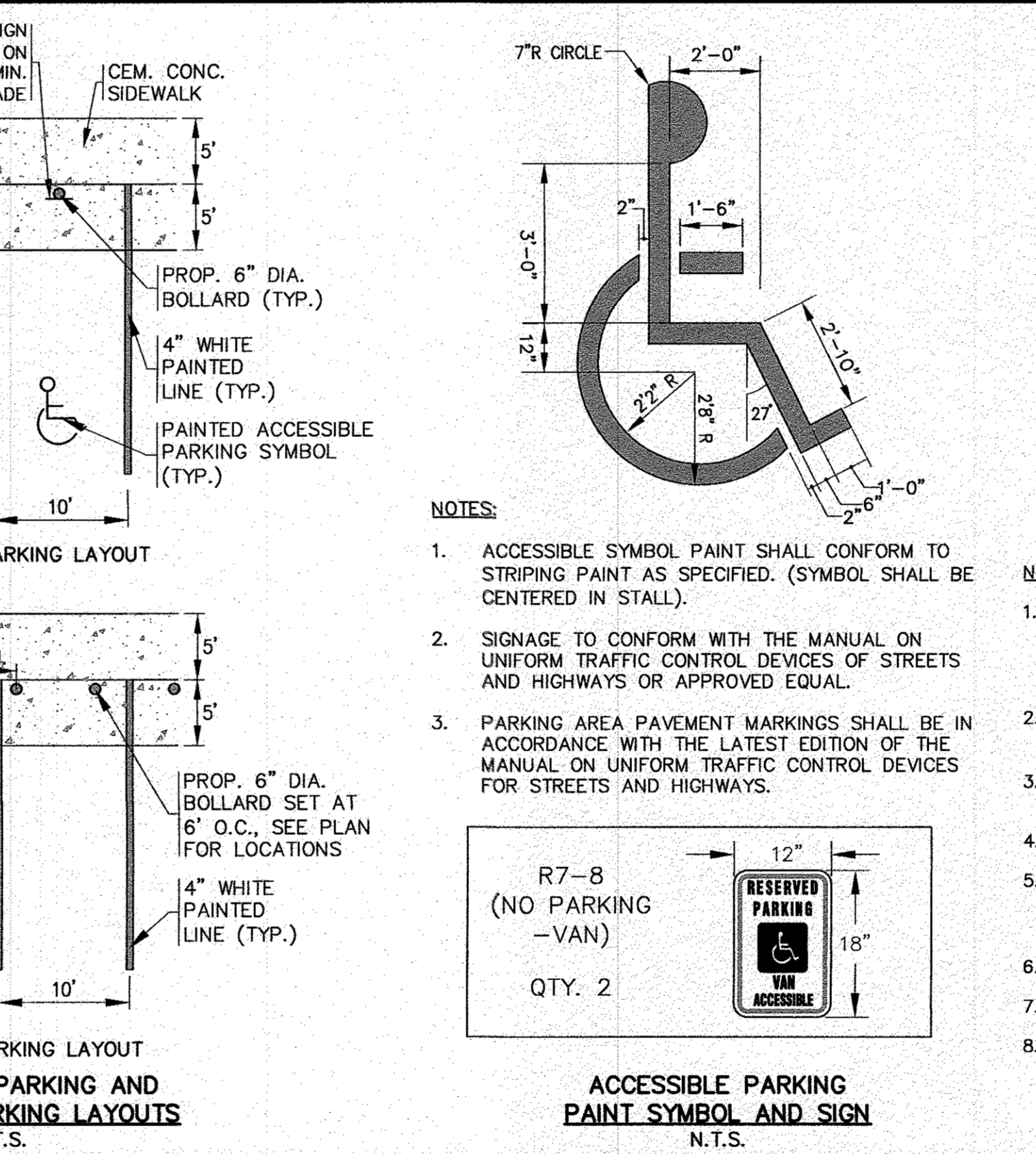
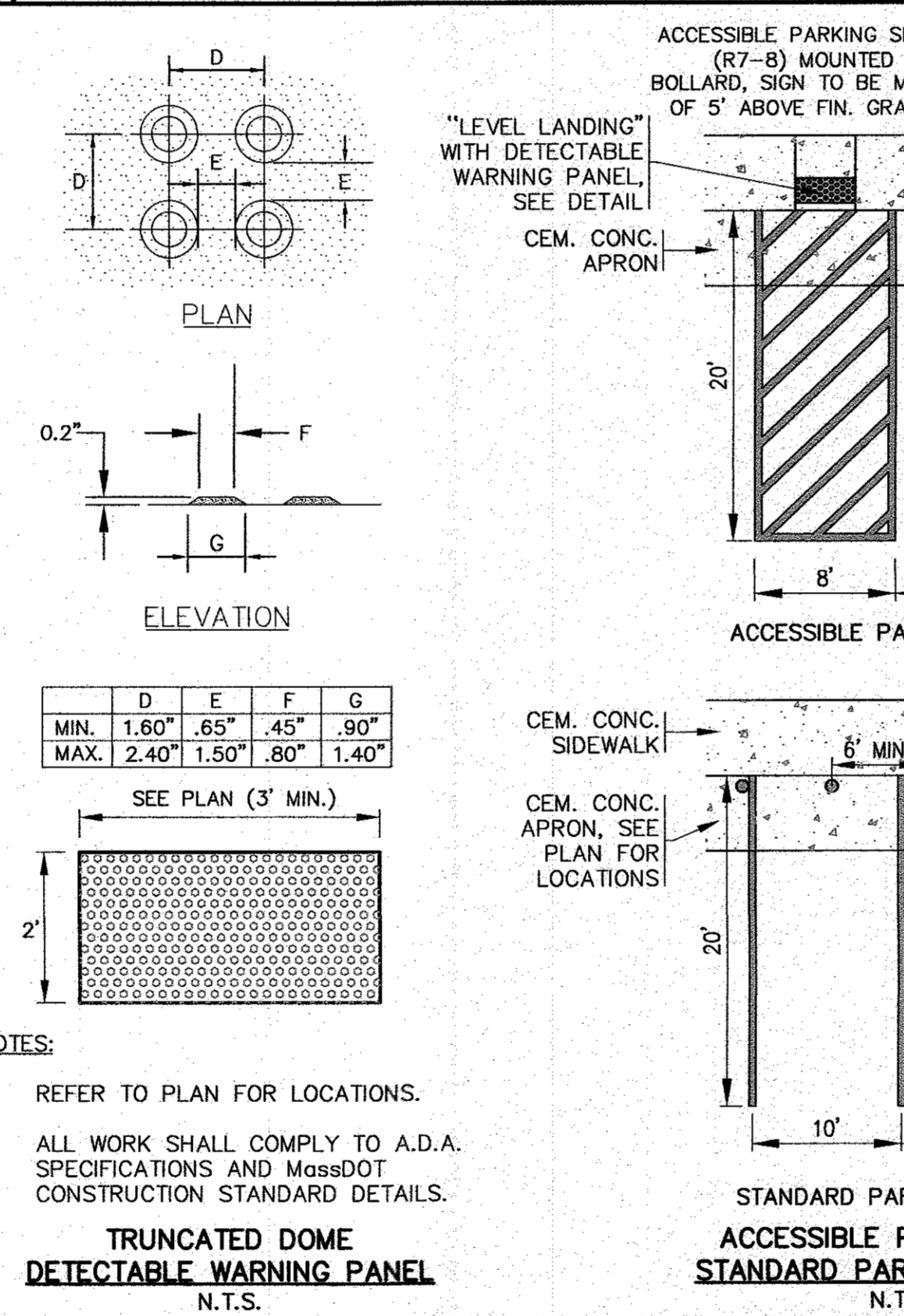
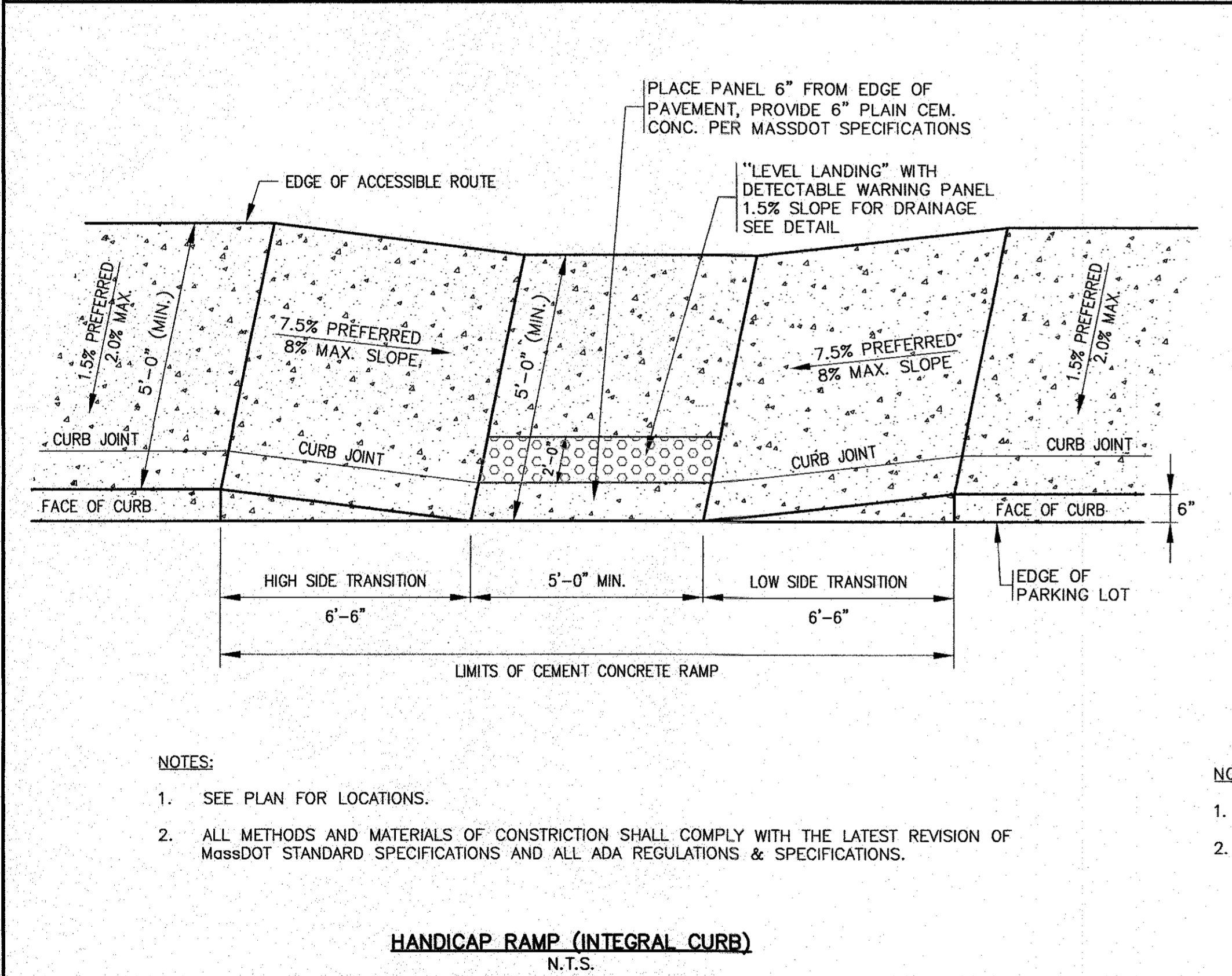
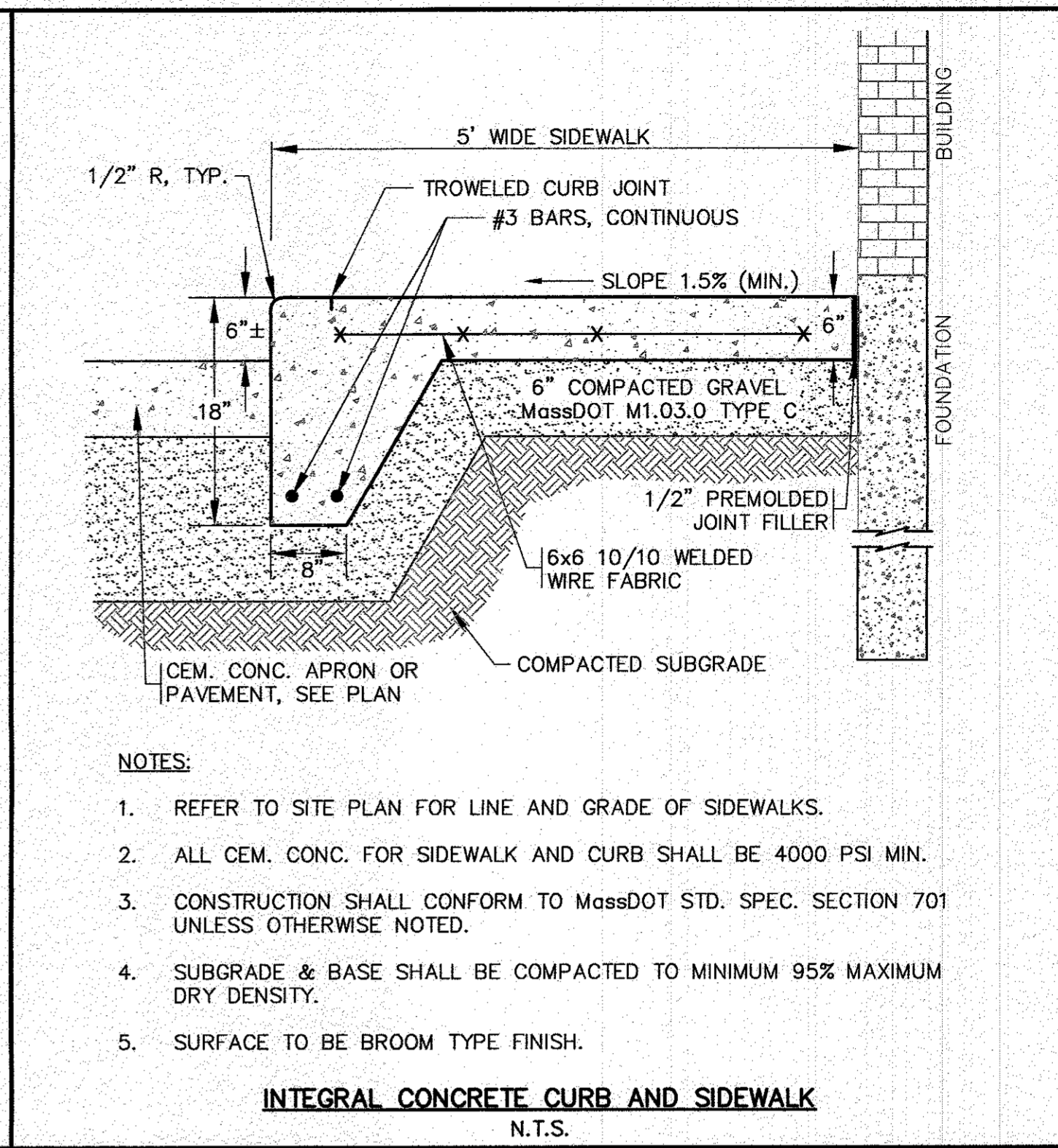
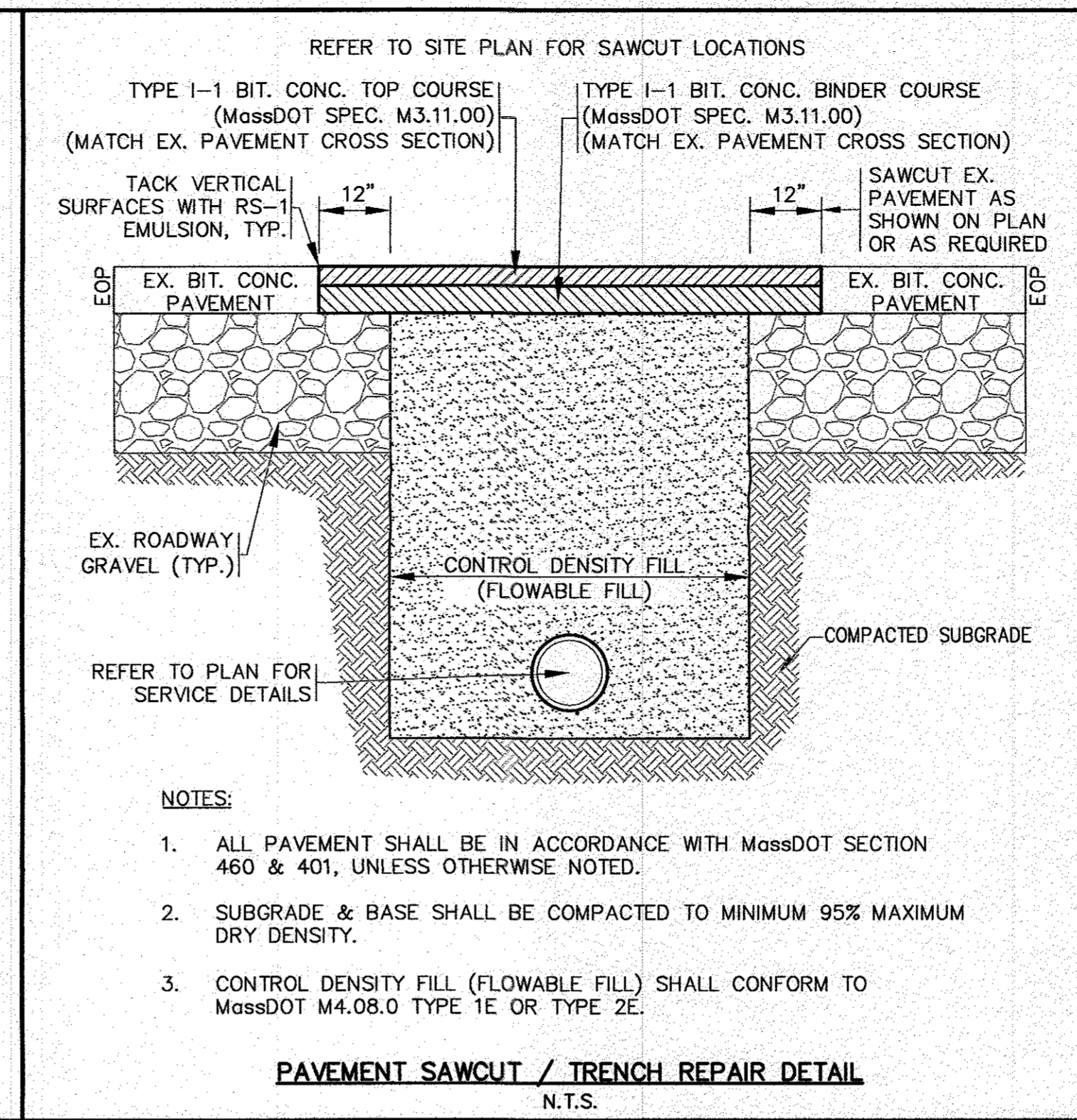
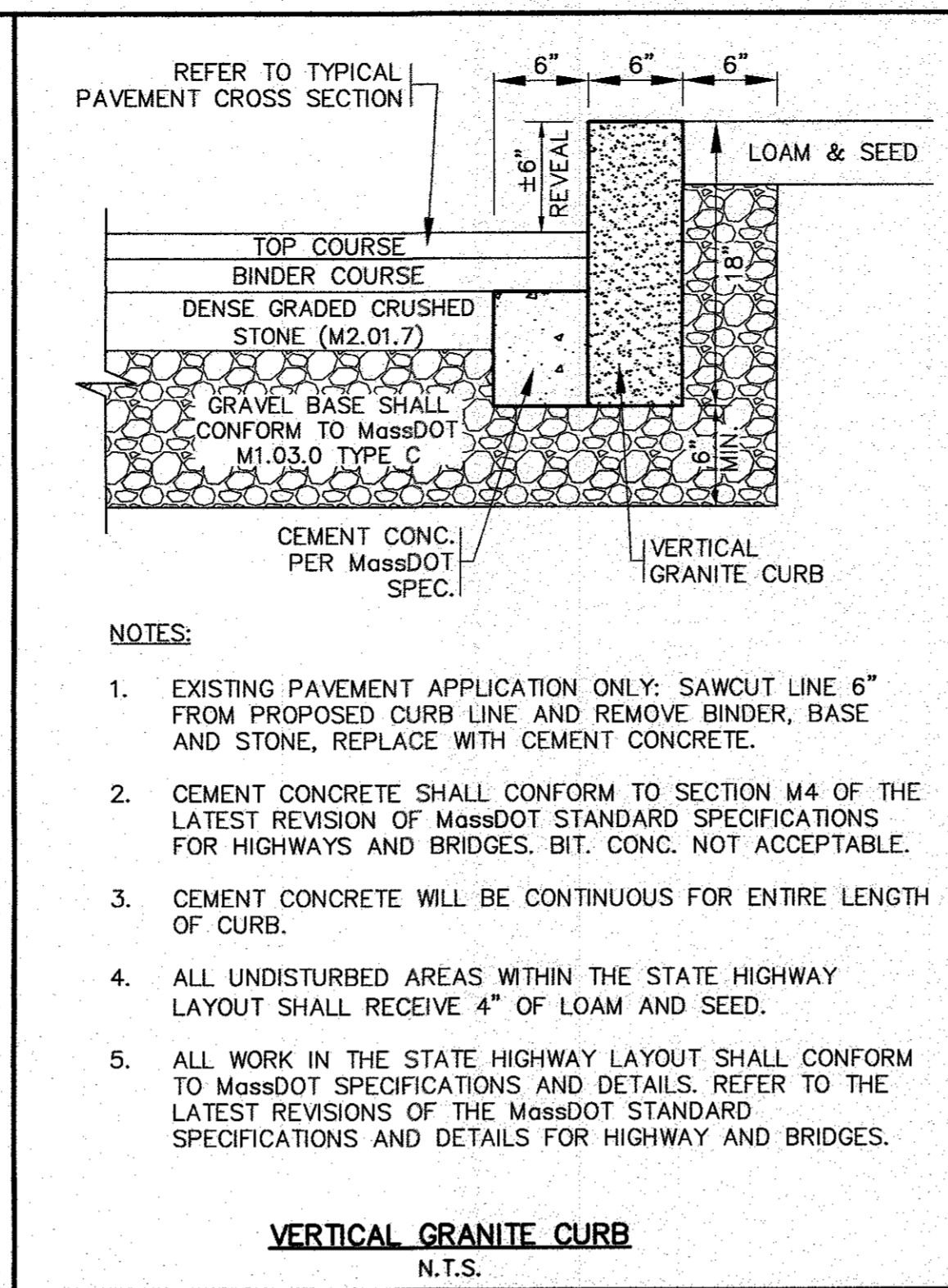
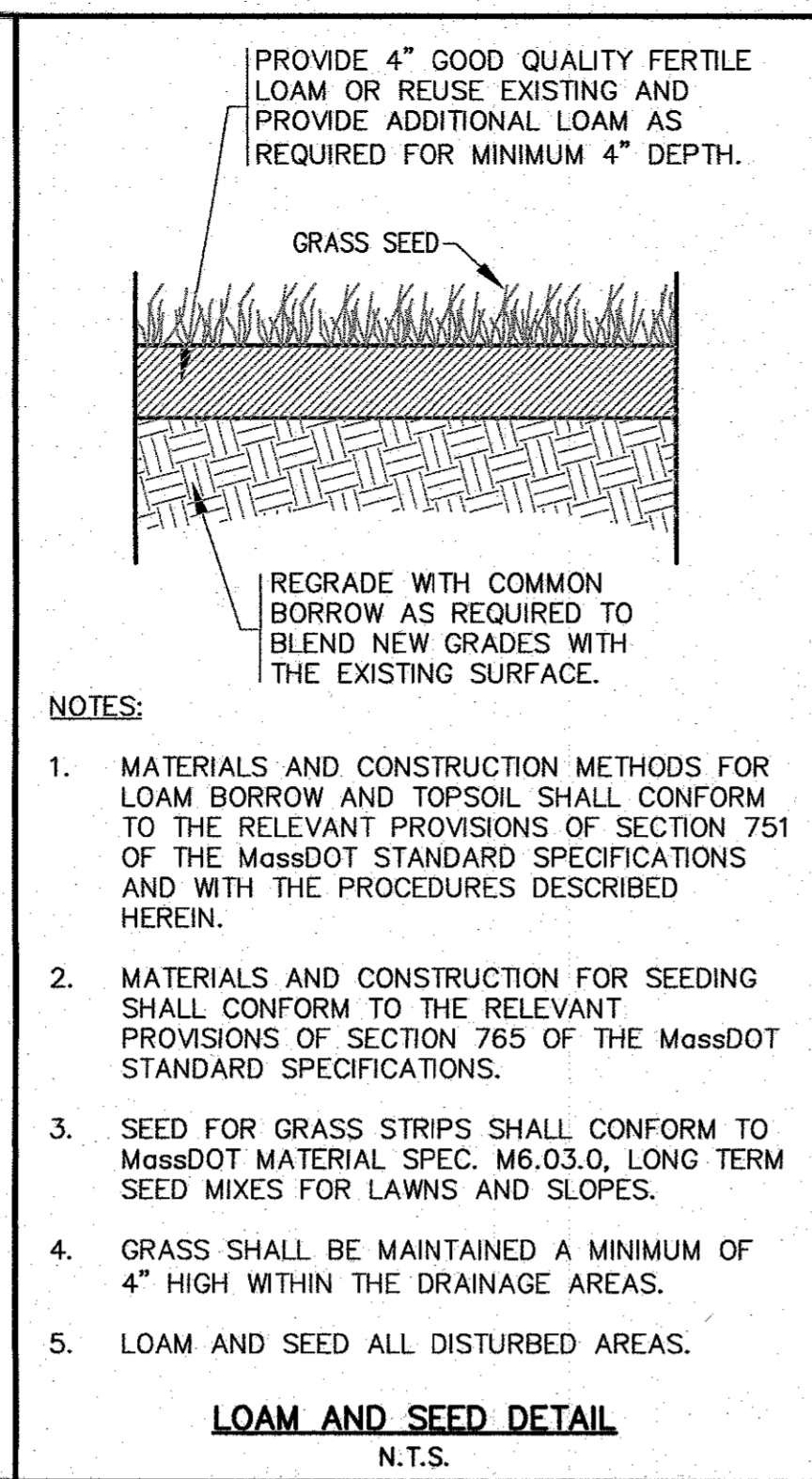
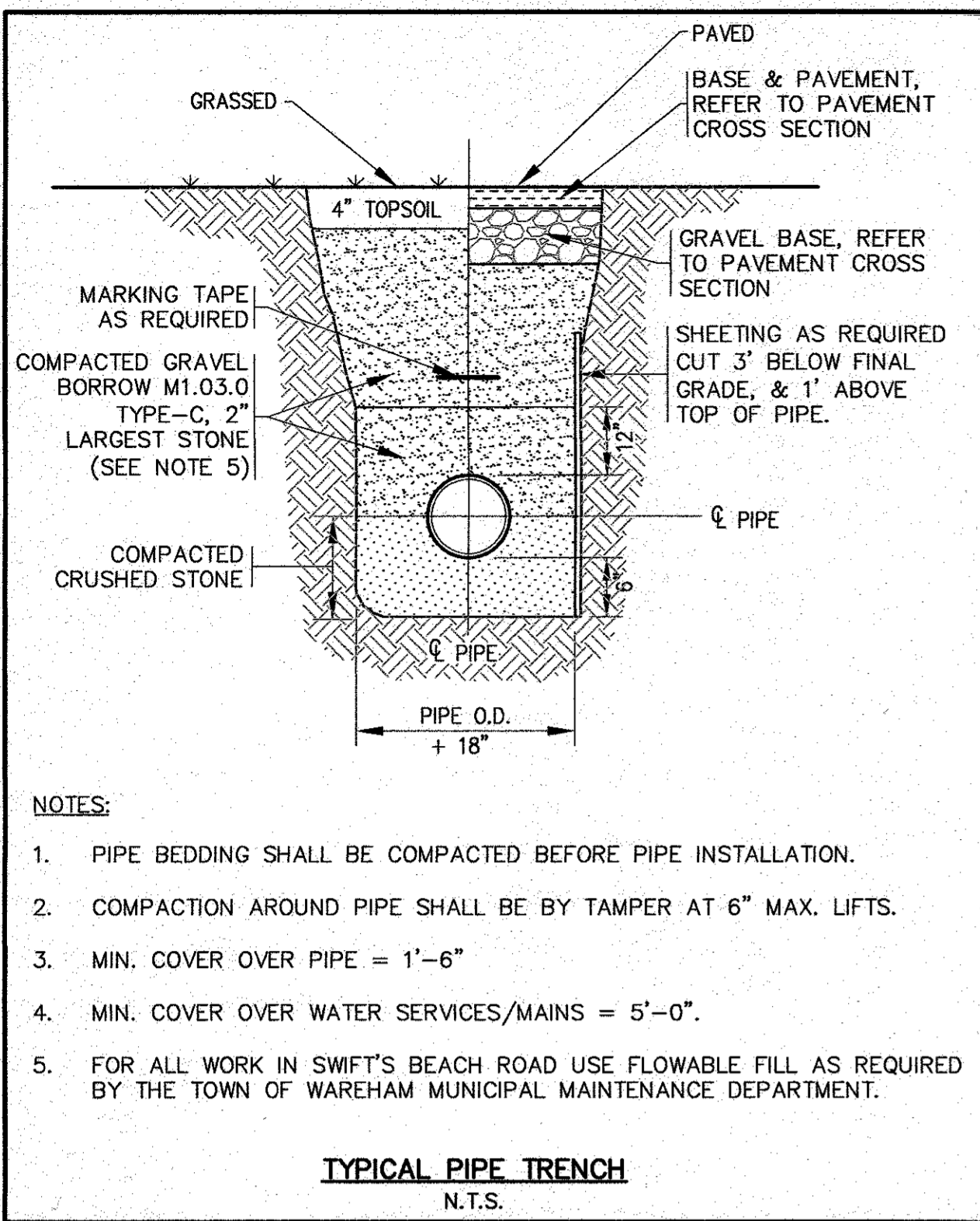
DATE: AUGUST 4, 2022  
 DRAWN BY: J.M.P.  
 CHECKED BY: W.F.M.  
 JOB NO.: 22-9838  
 SCALE: 1" = 20'

APPROVED BY:

**G.A.F. ENGINEERING, INC.**  
 PROFESSIONAL ENGINEERS & LAND SURVEYORS  
 266 MAIN STREET - WARRENHAM, MA 02571  
 TEL: (508) 295-6600 FAX: (508) 295-6634  
 E-MAIL: info@gafenginc.com

PREPARED FOR:  
**DAMIEN'S FOOD PANTRY**  
 242 MARION ROAD WARRENHAM, MA  
 P.O. BOX 730





DATE: AUGUST 4, 2022  
DRAWN BY: JMP  
CHECKED BY: WFM  
JOB NO.: 22-9838  
SCALE: N.T.S.

APPROVED BY: [Signature]

WILIAM W. WILSON  
REGISTERED PROFESSIONAL ENGINEER  
NO. 38883  
STATE OF MASSACHUSETTS

**G.A.F. ENGINEERING, INC.**  
PROFESSIONAL ENGINEERS & LAND SURVEYORS  
286 MAIN STREET - WAREHAM, MA 02571  
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PREPARED FOR:  
**DAMIEN'S FOOD PANTRY**  
242 MARION ROAD  
WAREHAM, MA  
P.O. BOX 730

**SITE DEVELOPMENT PLAN  
DETAIL SHEET 1**

NO CHANGES THIS SHEET  
NO CHANGES THIS SHEET  
PER PEER REVIEW COMMENTS

REV. DATE BY: APP'D

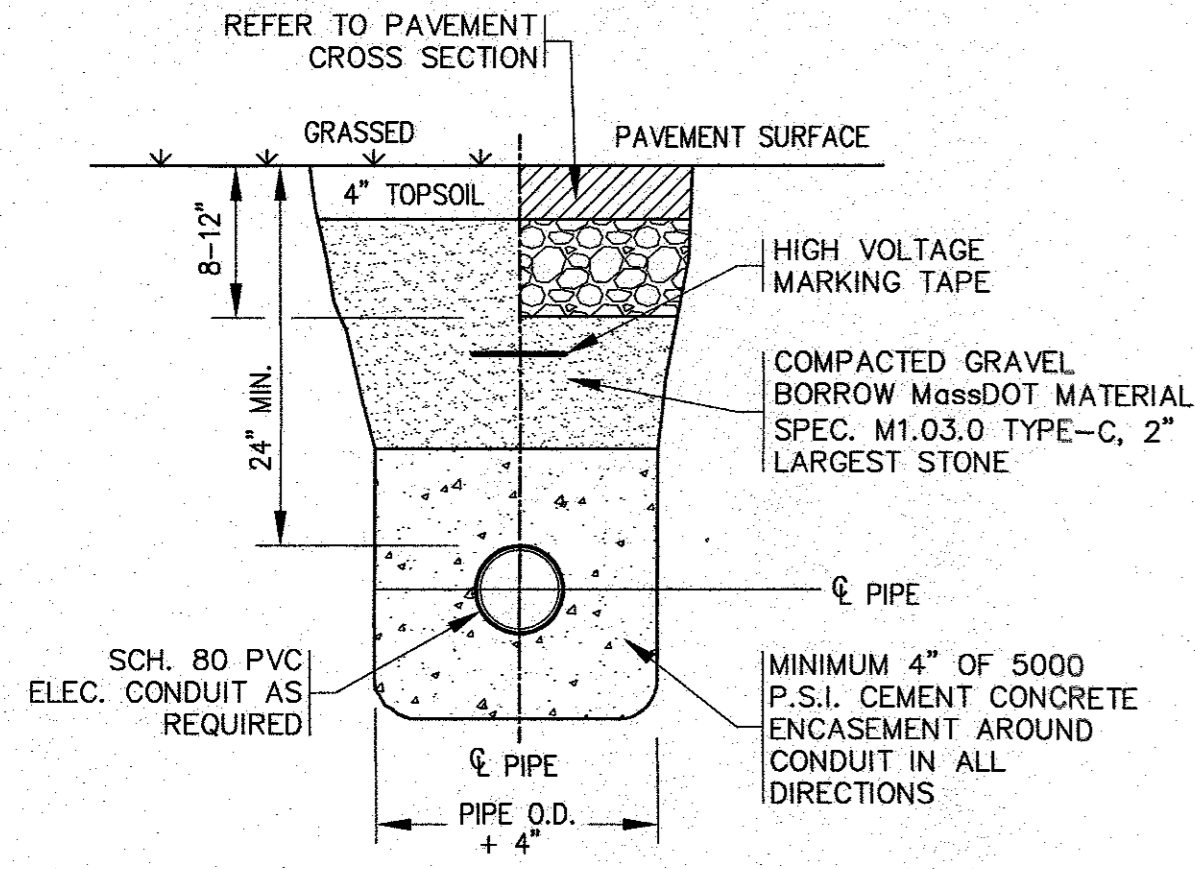
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WFM 11/8/22 JMP  
WFM 11/2/22 JMP

JOB NO.: 22-9838  
DWG. 9 OF 12

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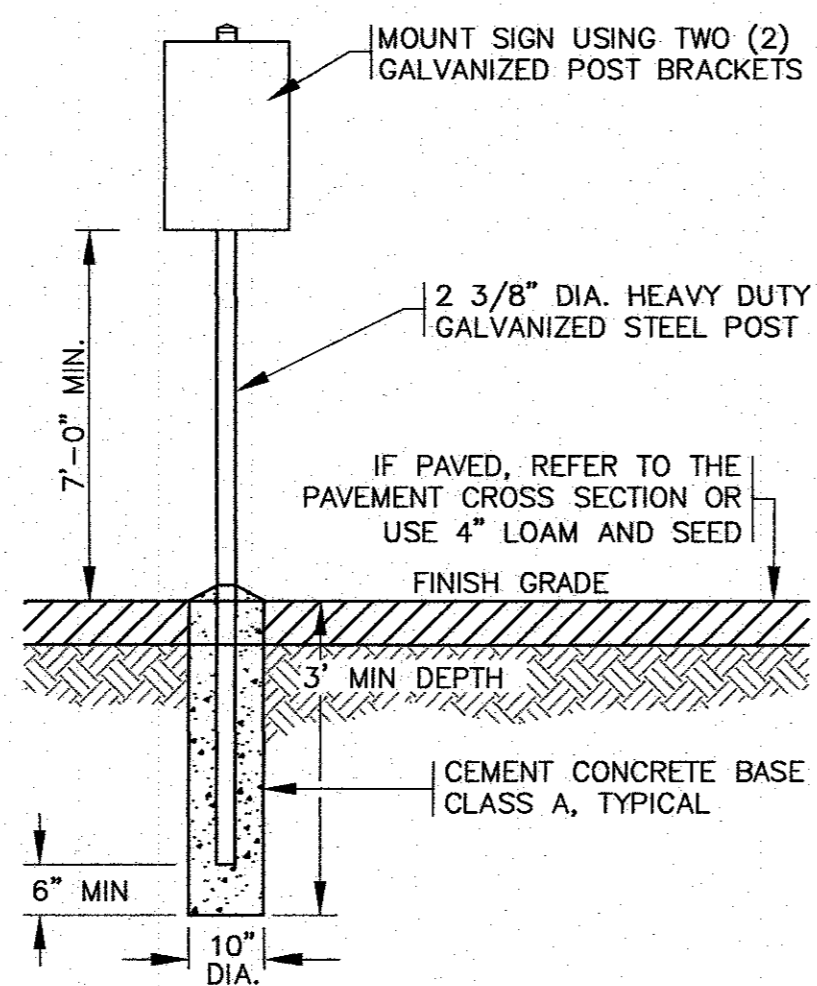


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(NOT FOR CONSTRUCTION)



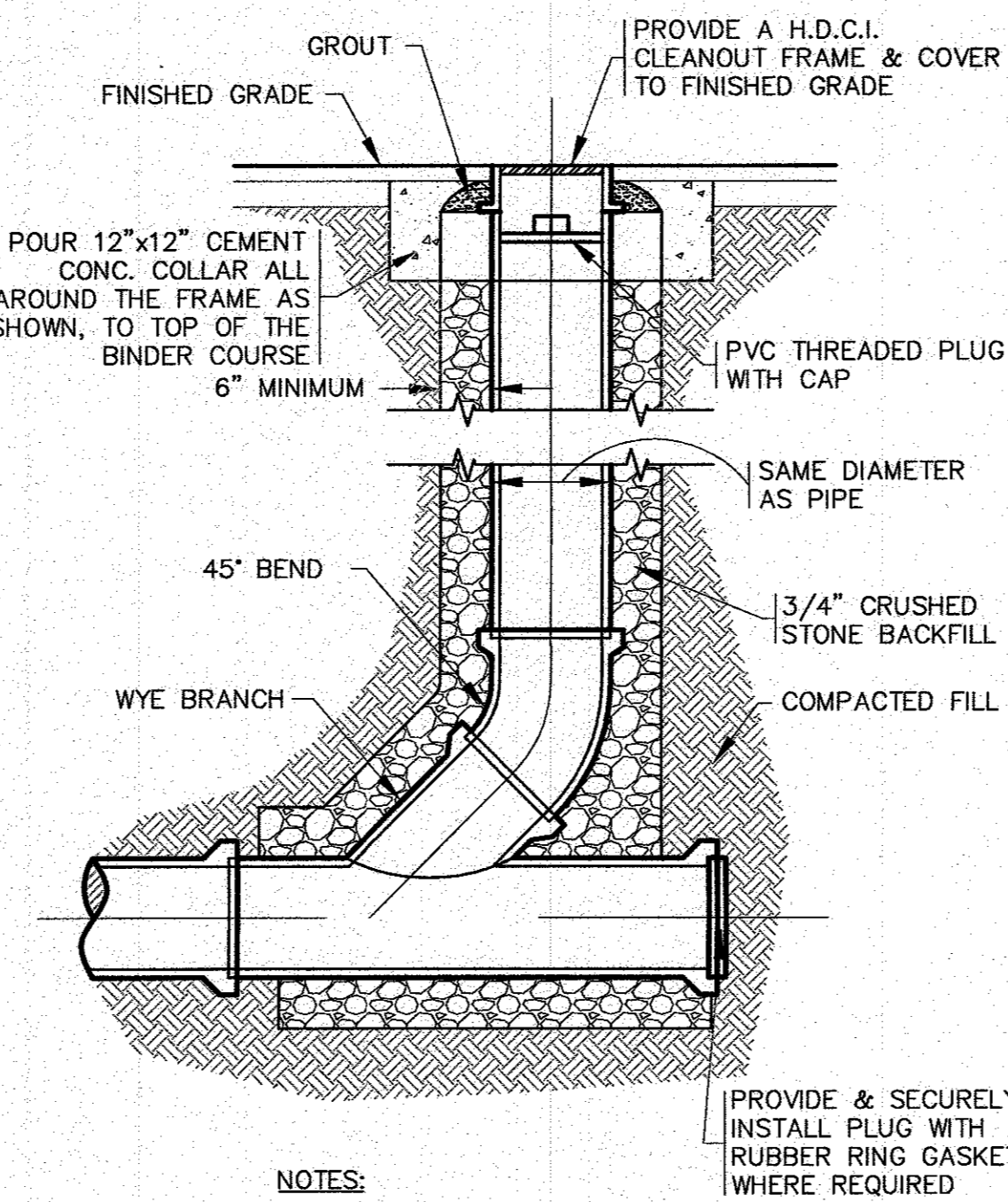
- NOTES:**
- REFER TO ELECTRICAL PLANS BY OTHERS FOR FINAL CONDUIT SIZE, LOCATIONS AND ALL CONSTRUCTION DETAILS.
  - ALL CONDUITS PLACED UNDER TRAVELED WAYS OR WHERE VEHICULAR TRAFFIC WILL OCCUR SHALL BE ENCASED WITHIN A 5000 P.S.I. CEMENT CONCRETE MIX THAT MEETS MASSDOT H-20 STANDARDS.

**CONDUIT TRENCH**  
N.T.S.



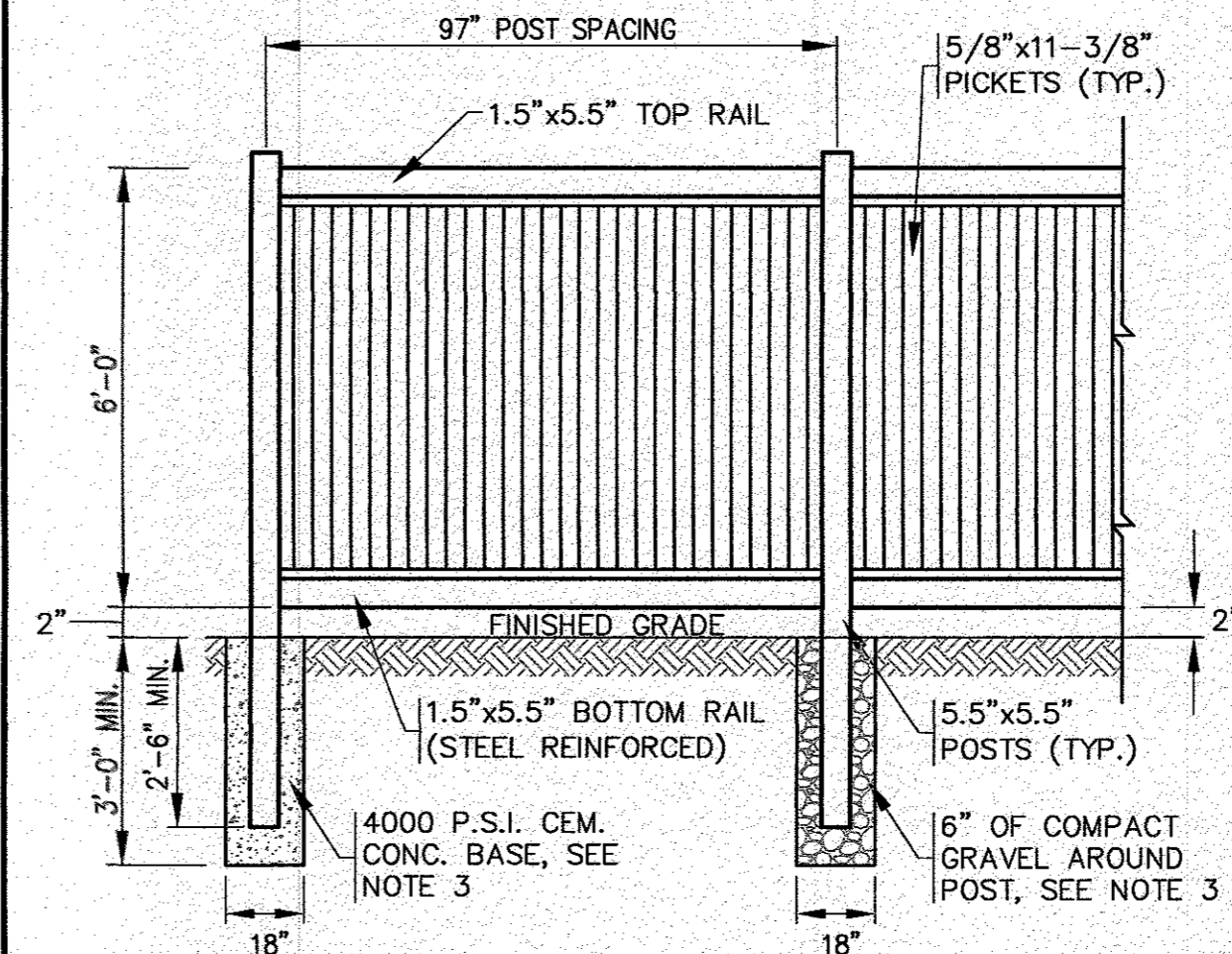
- NOTES:**
- ALL SIGNS, MARKINGS AND DIMENSIONS SHALL BE IN CONFORMANCE WITH THE MOST RECENT EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), MASSDOT STANDARDS AND SPECIFICATIONS.
  - REFER TO SITE PLAN FOR LOCATIONS.
  - ALL HARDWARE USED SHALL BE CADMIUM OR ZINC PLATED.

**TYPICAL SIGN POST DETAIL**  
N.T.S.



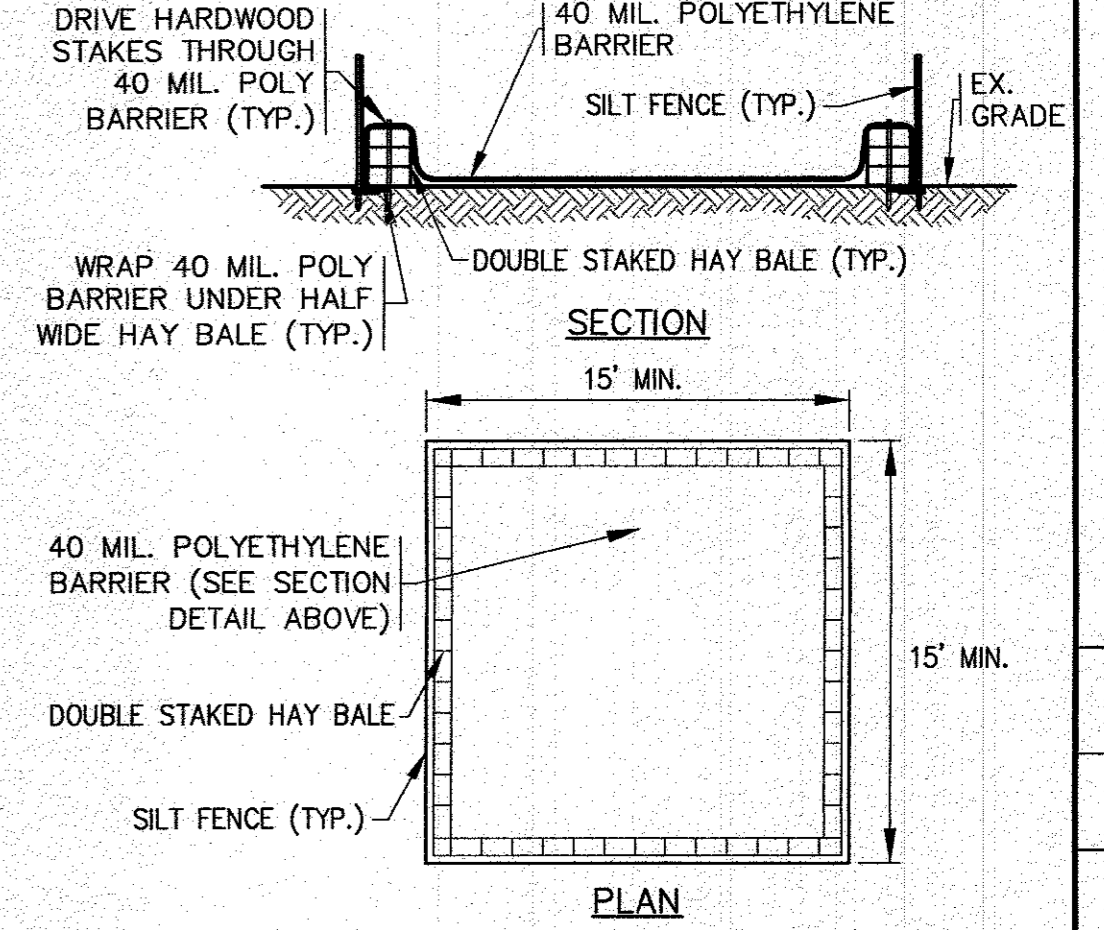
- NOTES:**
- REFER TO PLAN FOR LOCATIONS.

**STANDARD CLEANOUT**  
N.T.S.



- NOTES:**
- REFER TO MANUFACTURERS SPECIFICATIONS FOR COMPLETE DETAILS AND INSTALLATION GUIDELINES.
  - REFER TO PLAN FOR LOCATIONS.
  - CEMENT CONCRETE BASE SHALL BE USED AT ALL ENDS, ANGLE POINTS AND GATE POSTS. POSTS SHALL BE INSTALLED TO A DEPTH OF 2'-6" MIN. OR TO A DEPTH AS REQUIRED FOR FROST ADEQUATE PROTECTION.
  - CONTRACTOR SHALL COORDINATE WITH OWNER FOR FINAL DESIGN DETAILS.

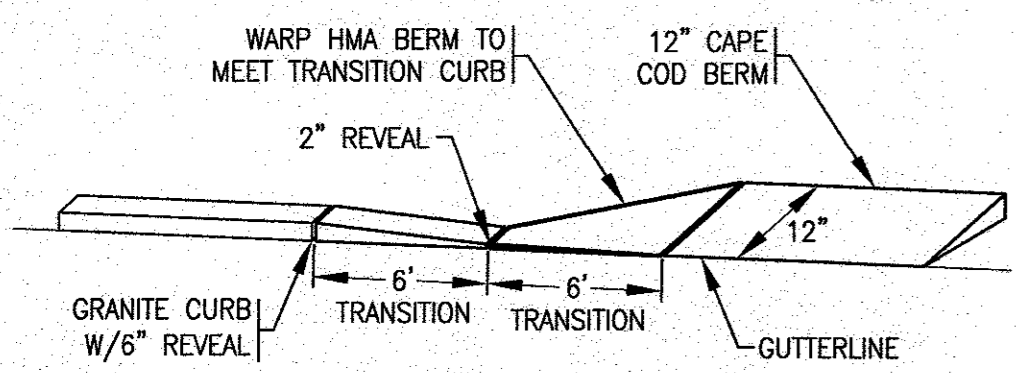
**VINYL FENCE DETAIL**  
N.T.S.



- NOTES:**
- CONTRACTOR SHALL PROVIDE AND MAINTAIN CONCRETE WASHOUT AREA WHERE NECESSARY TO COMPLETE THE WORK.
  - FINAL LOCATION FOR CONCRETE WASHOUT SHALL BE FIELD DETERMINED BY CONTRACTOR AT TIME OF CONSTRUCTION.
  - CONTRACTOR SHALL REPAIR OR REPLACE 40 MIL. POLY BARRIER OR STAKED HAY BALES AS REQUIRED.

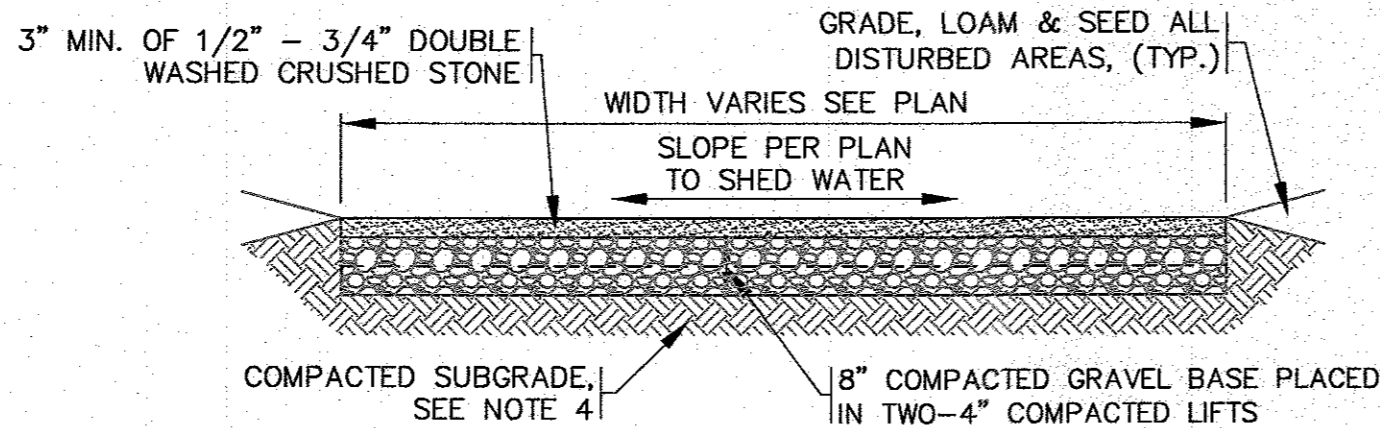
**CONCRETE WASHOUT DETAIL**  
N.T.S.

|                      |                     |                       |             |
|----------------------|---------------------|-----------------------|-------------|
| DATE: AUGUST 4, 2022 | APPROVED BY: J.M.P. | NO CHANGES THIS SHEET | DESCRIPTION |
| DRAWN BY: J.M.P.     | CHECKED BY: W.F.M.  | NO CHANGES THIS SHEET |             |
| JOB NO.: 22-9838     | SCALE: N.T.S.       | NO CHANGES THIS SHEET |             |
| REV. 1               | DATE                | BY                    | APP'D       |



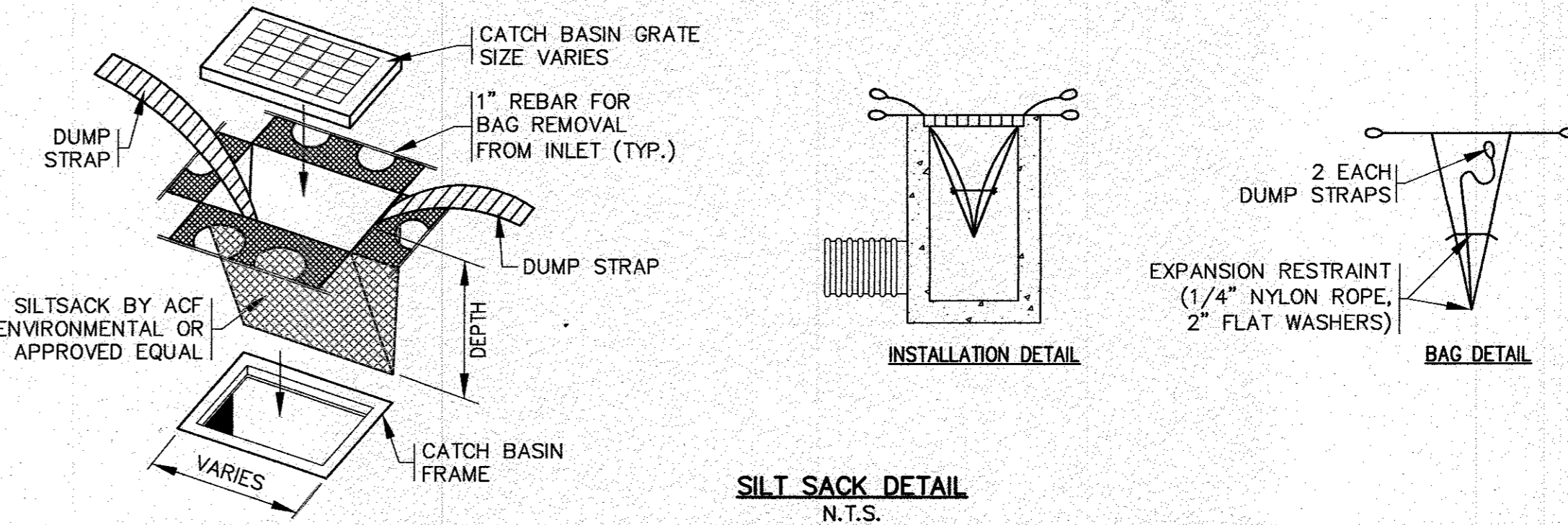
- NOTES:**
- SEE PLAN FOR LOCATIONS.
  - ALL METHODS AND MATERIALS OF CONSTRUCTION SHALL COMPLY WITH THE LATEST REVISION OF MASSDOT STANDARD SPECIFICATIONS.

**GRANITE CURB TO CAPE COD BERM TRANSITION DETAIL**  
N.T.S.

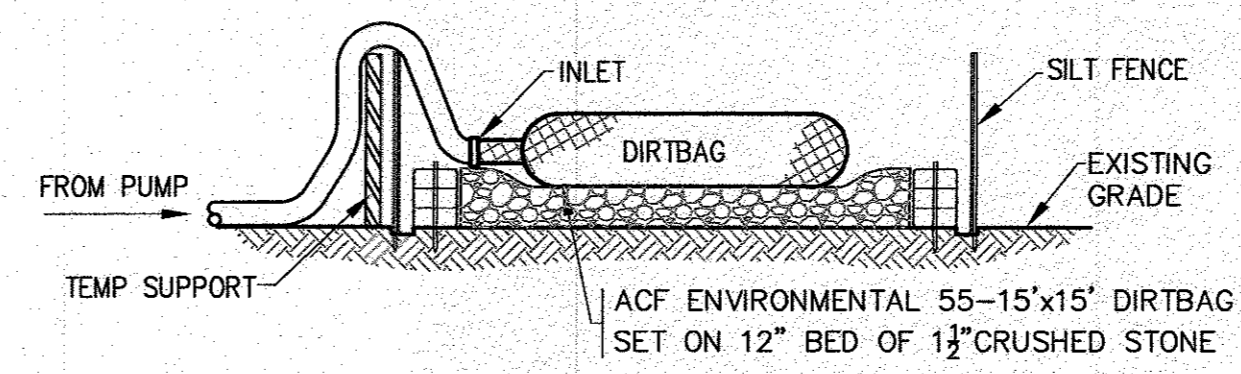


- NOTES:**
- REFER TO PLAN FOR LOCATIONS.
  - GRAVEL BASE SHALL CONFORM TO MASSDOT MATERIAL SPEC. SECTION M1.03.0 TYPE C.
  - SUBGRADE & BASE SHALL BE COMPACTED TO MINIMUM 95% MAXIMUM DRY DENSITY.
  - REMOVE UNSUITABLE SOIL BENEATH THE PROPOSED CRUSHED STONE DRIVEWAY AND ACCESS AISLES. THIS INCLUDES ORGANICS, TOPSOIL, ROOTS AND OTHER UNSUITABLE SOILS.

**CRUSHED STONE DRIVEWAY AND ACCESS AISLES DETAIL**  
N.T.S.

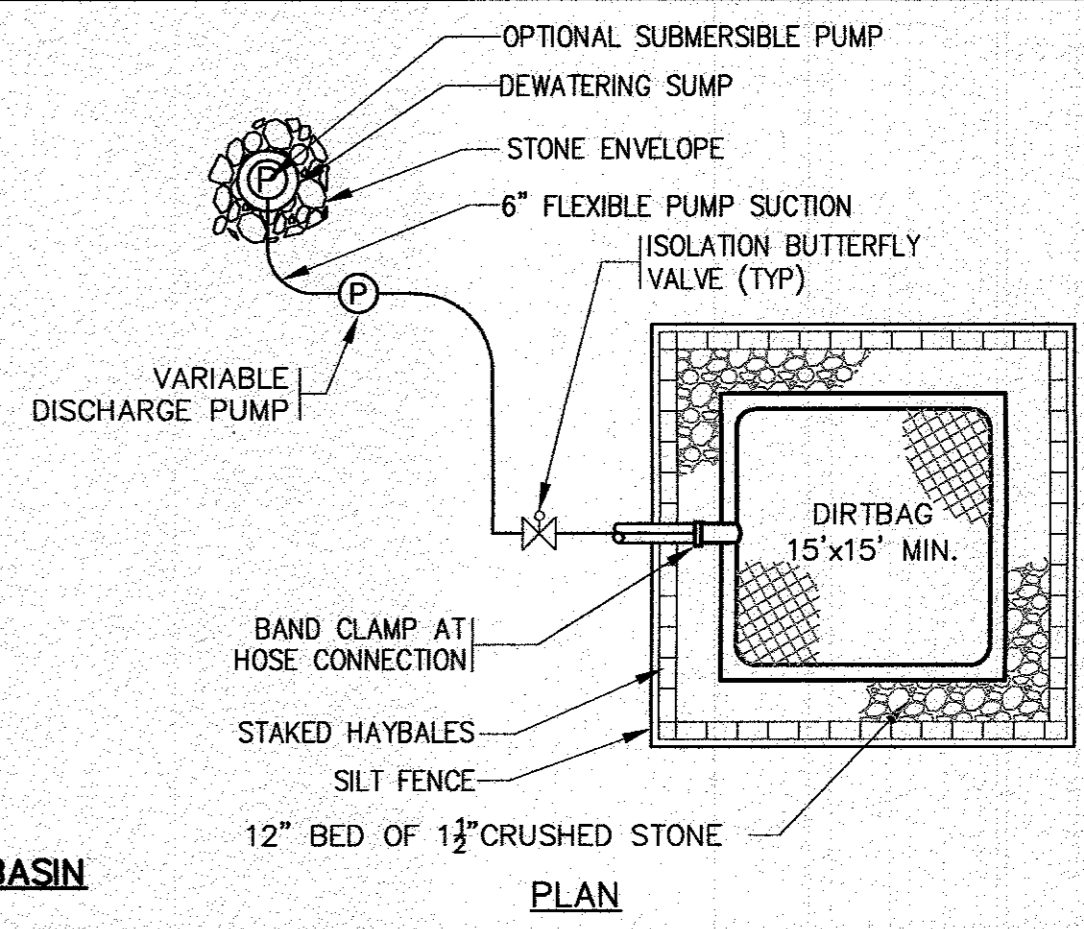


**SILT SACK DETAIL**  
N.T.S.

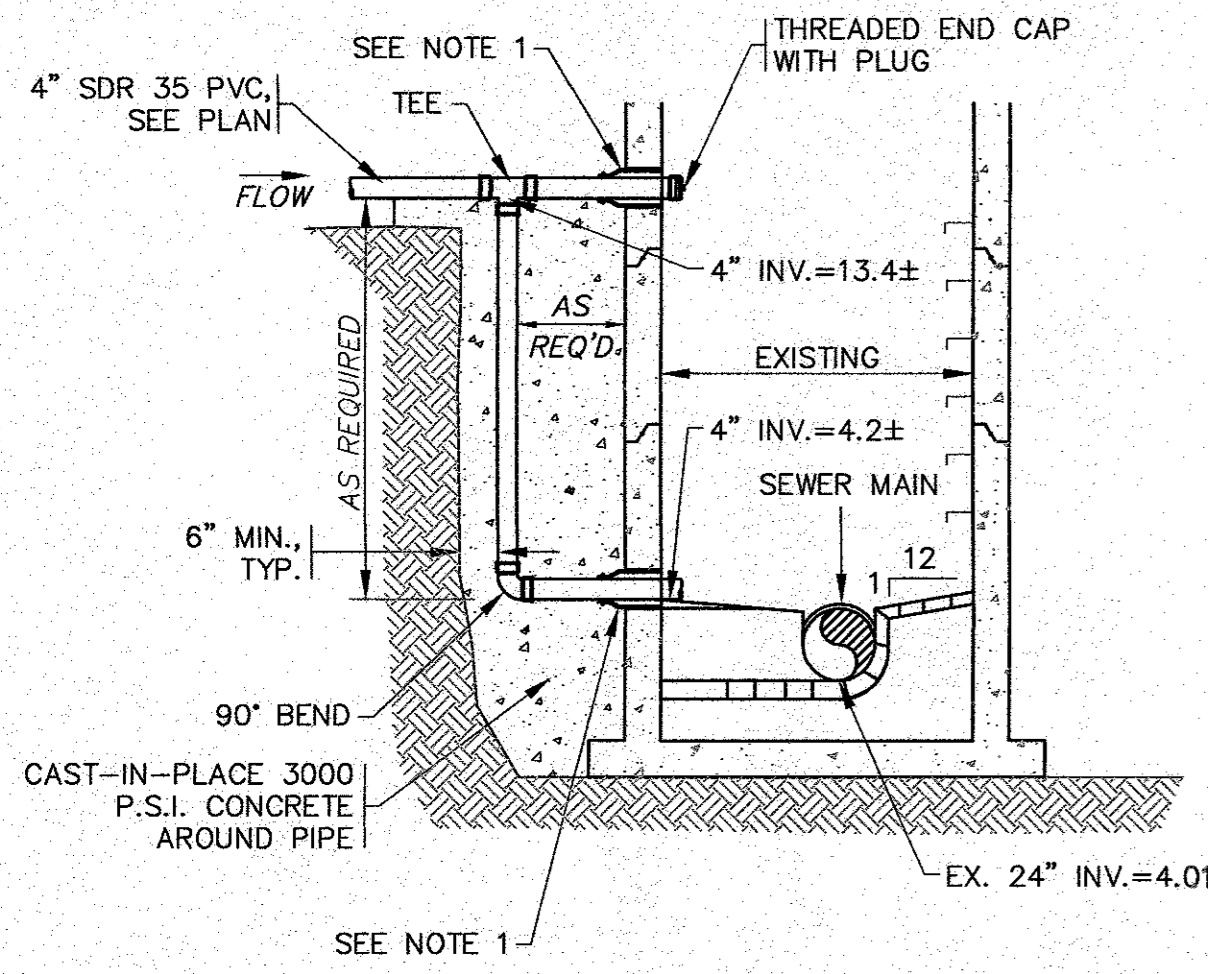


- NOTES:**
- CONTRACTOR SHALL SIZE, PROVIDE AND MAINTAIN DEWATERING EQUIPMENT FOR THE CONTROL, COLLECTION AND DISPOSAL OF GROUND AND SURFACE WATER WHERE NECESSARY TO COMPLETE THE WORK.
  - FINAL LOCATION AND SIZE FOR DEWATERING EQUIPMENT SHALL BE FIELD DETERMINED BY CONTRACTOR AT TIME OF CONSTRUCTION.

**ON-SITE DEWATERING BASIN**  
N.T.S.

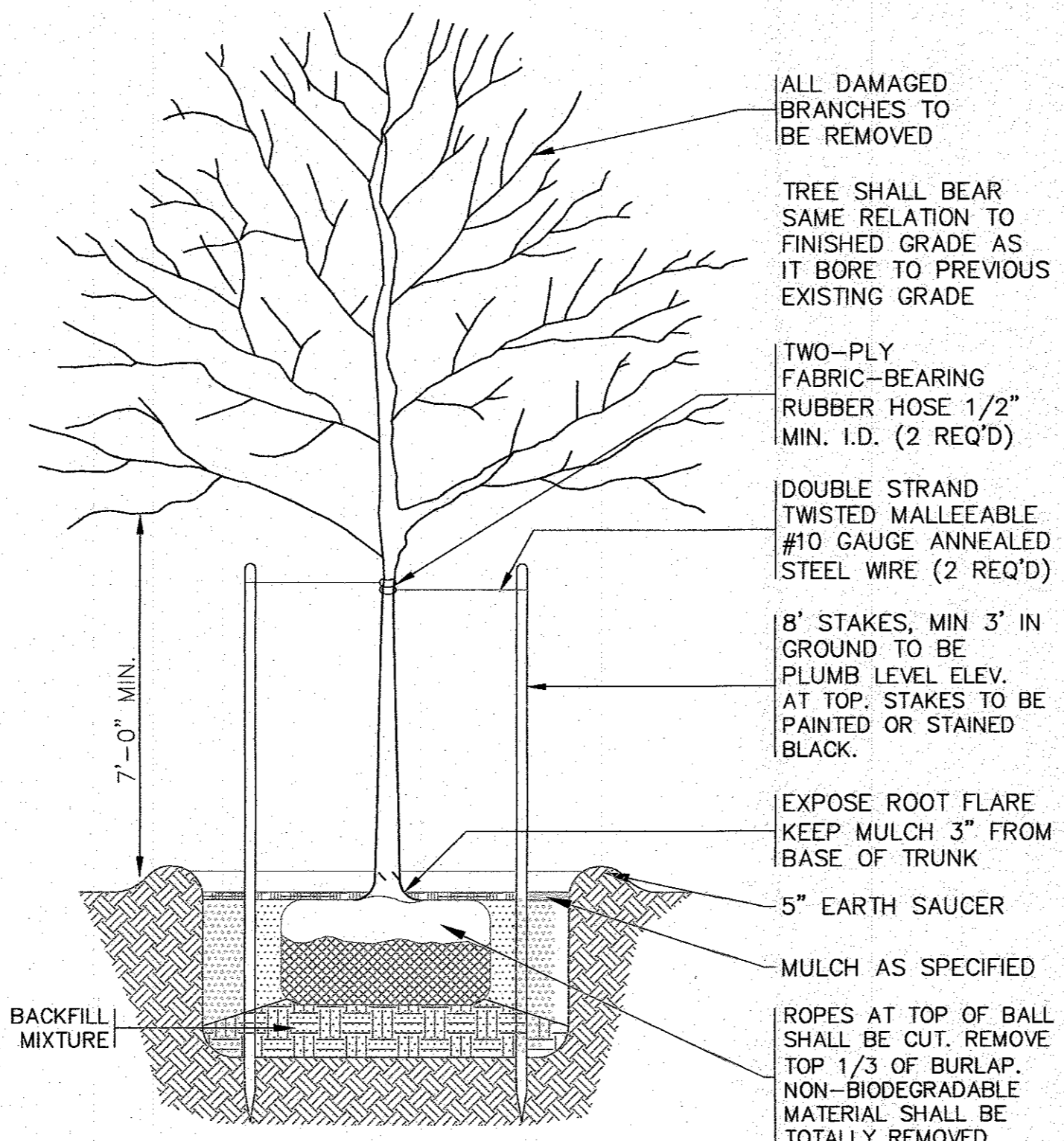


**PLAN**



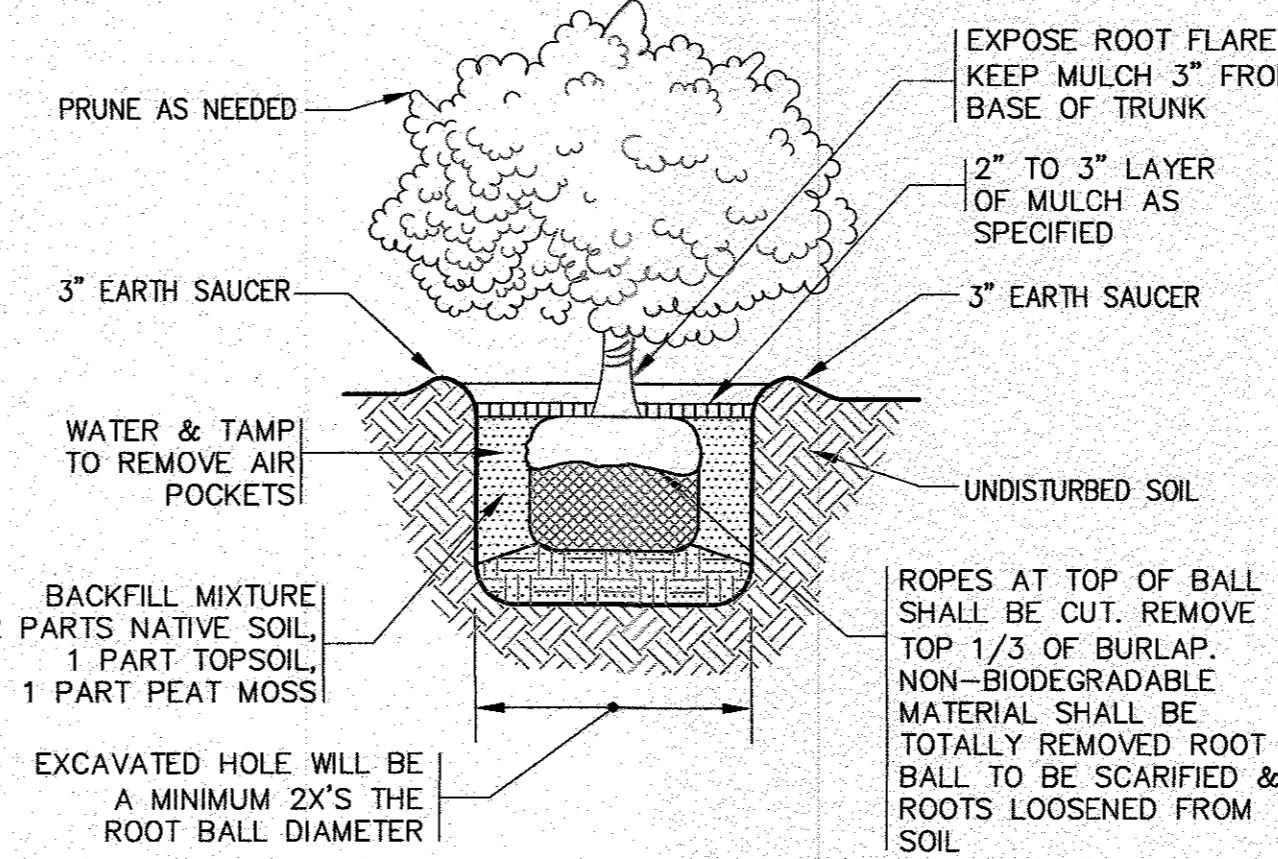
- NOTES:**
- USE WATERTIGHT PENETRATION NON-SHRINK MORTAR OR RESILIENT EPDM RUBBER BOOT WITH INTERNAL EXTERNAL STAINLESS STEEL CLAMPS & EXPANDERS.
  - ALL STRUCTURE JOINTS AND PENETRATIONS SHALL BE WATER TIGHT.
  - REFER TO PLANS FOR PIPE SIZES AND LOCATIONS.

**OUTSIDE DROP - SEWER MANHOLE**  
N.T.S.

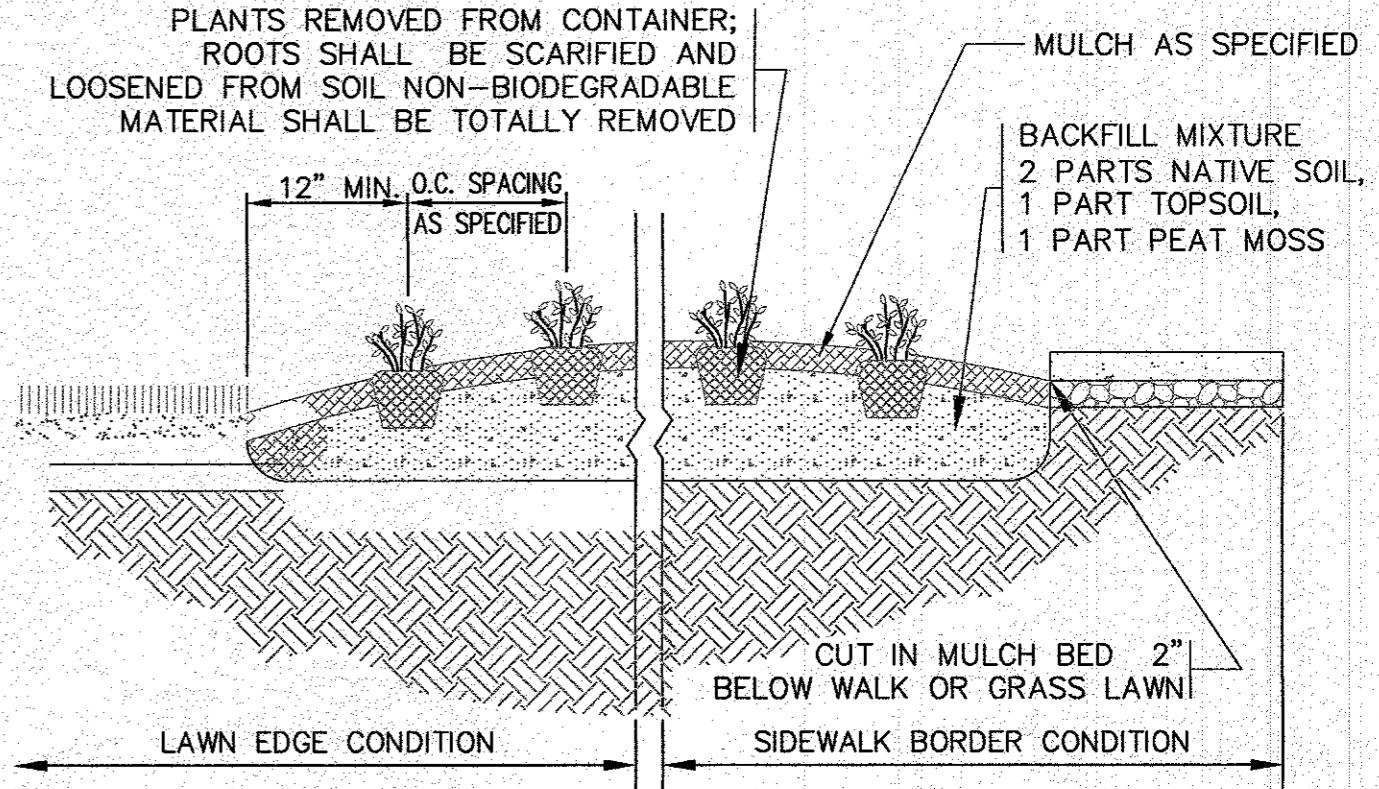


- NOTES:**
- REFER TO LANDSCAPING PLAN FOR PLANTING LOCATIONS.

**SHADE TREE PLANTING DETAIL**  
N.T.S.



**SHRUB PLANTING**  
N.T.S.



**GROUNDCOVER PLANTING DETAIL**  
N.T.S.

APPROVED BY: *[Signature]*

**G.A.F. ENGINEERING, INC.**  
PROFESSIONAL ENGINEERS & LAND SURVEYORS  
266 MAIN STREET - WAREHAM, MA 02571  
TEL: (508) 295-6600 FAX: (508) 295-6634  
E-MAIL: info@gafenginc.com

PREPARED FOR:  
**DAMIEN'S FOOD PANTRY**  
242 MARION ROAD WAREHAM, MA P.O. BOX 730

**SITE DEVELOPMENT PLAN**  
**DETAIL SHEET 2**

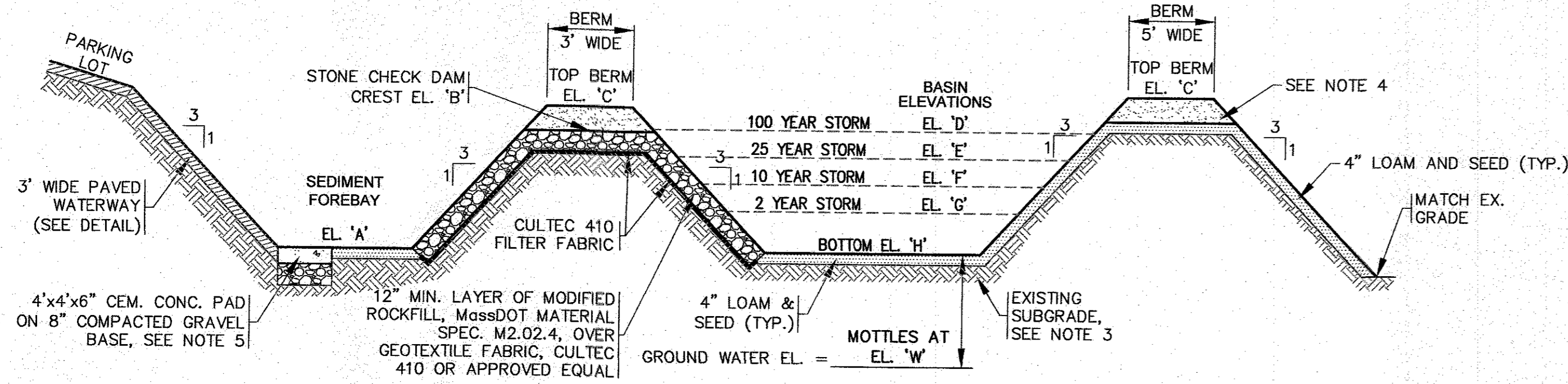
JOB NO.: 22-9838  
DWG. 10 OF 12



**PERMIT SET**  
(NOT FOR CONSTRUCTION)

**ELEVATION TABLE:**

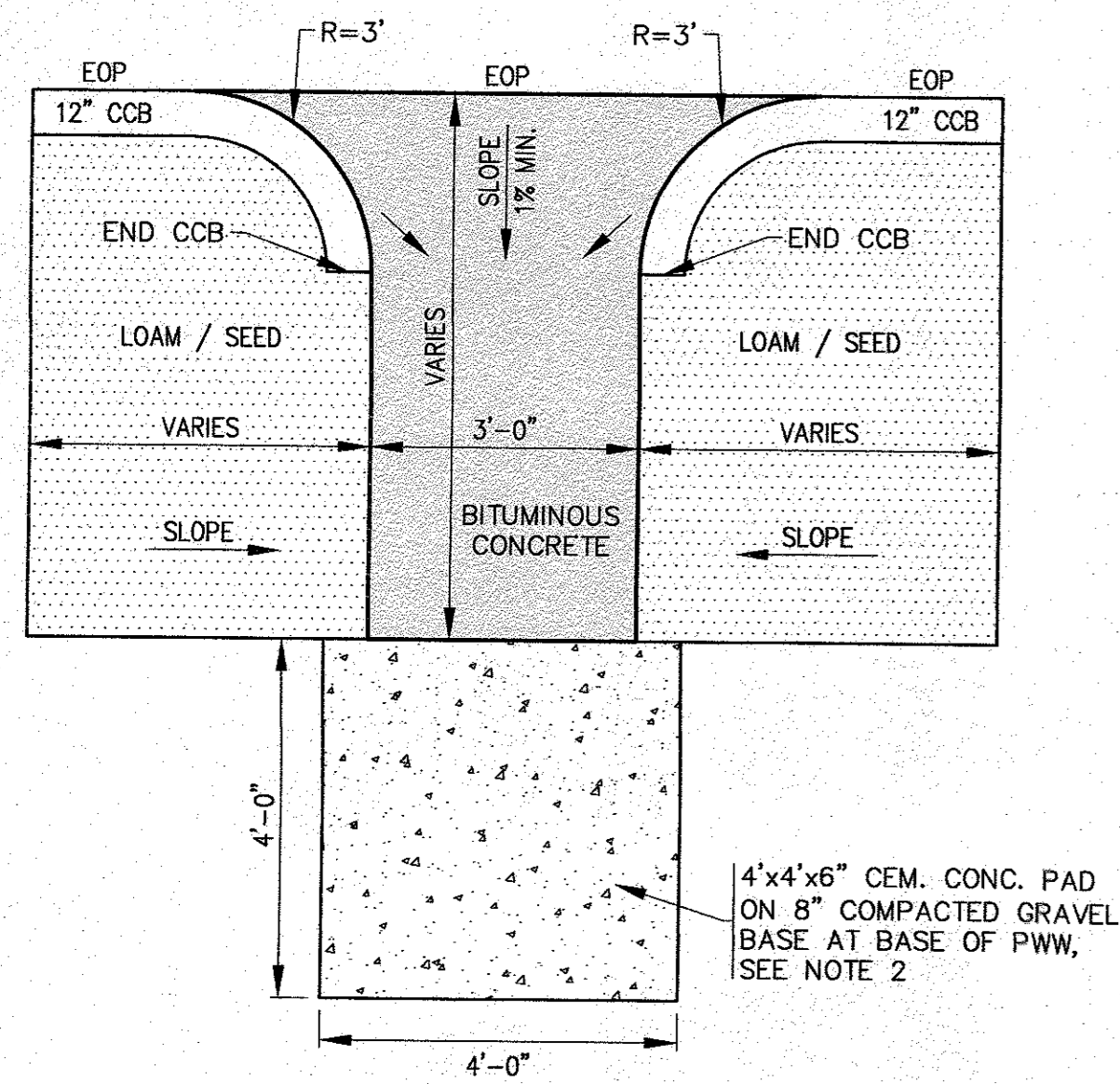
| DESC./EL. | EL. 'A' | EL. 'B' | EL. 'C' | EL. 'D' | EL. 'E' | EL. 'F' | EL. 'G' | EL. 'H' | EL. 'W' |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| BASIN 1   | 16.5    | 17.5    | 18.5    | 18.13   | 17.56   | 17.21   | 16.67   | 16.5    | 14.0    |
| BASIN 2   | 15.3    | 16.5    | 17.1    | 15.94   | 15.67   | 15.52   | 15.33   | 15.3    | 13.3    |



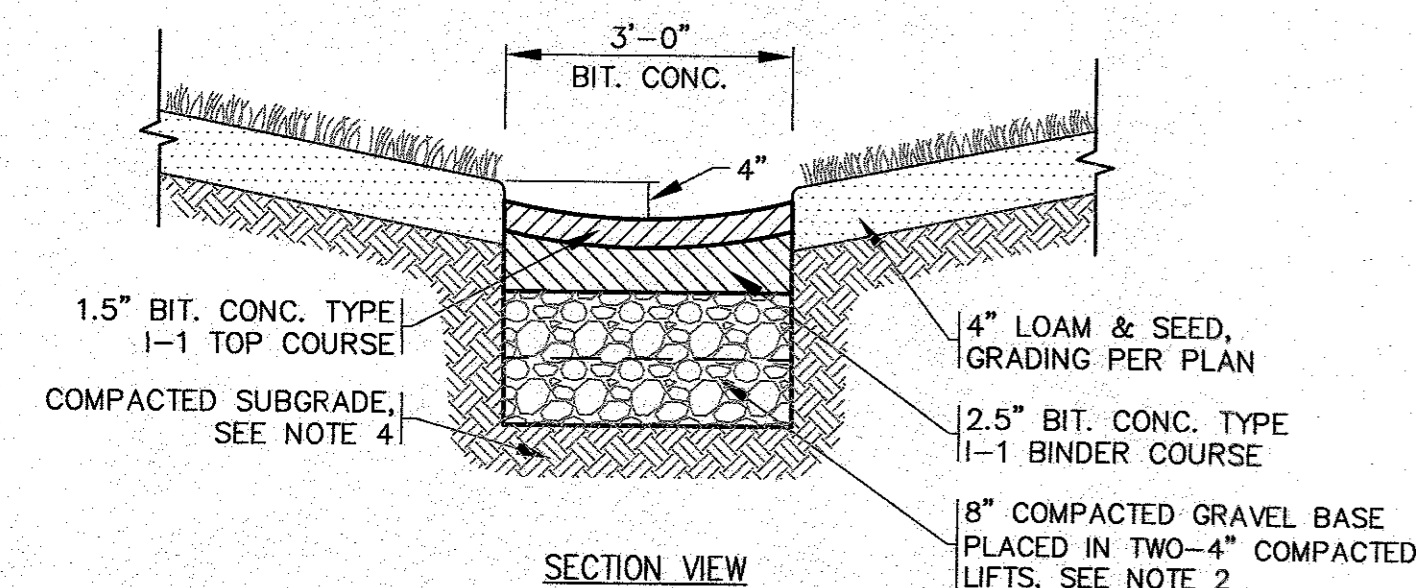
**NOTES:**

- GRASS SHALL BE MAINTAINED APPROXIMATELY 4" HIGH WITHIN THE DRAINAGE AREAS. REFER TO THE POST CONSTRUCTION MAINTENANCE NOTES.
- SLOPES SHALL BE CLEAR OF ALL OTHER VEGETATION.
- WHERE REQUIRED CONTRACTOR TO REMOVE ALL UNSUITABLE SOILS 2' BENEATH SEDIMENT FOREBAYS & DRAINAGE BASIN AND REPLACE WITH CLEAN SAND AND GRAVEL APPROVED BY DESIGN ENGINEER.
- CONTRACTOR SHALL PLACE COMPACTED ORDINARY BORROW (M1.01.0) WITH STONE SIZE NO LARGER THAN 6" FOR FILL AREAS ADJACENT TO THE EMERGENCY SPILLWAY.
- GRAVEL BASE SHALL CONFORM TO MassDOT MATERIAL SPEC. SECTION M1.03.0 TYPE C.

**DRAINAGE BASIN DETAIL**  
N.T.S.



**PLAN VIEW**

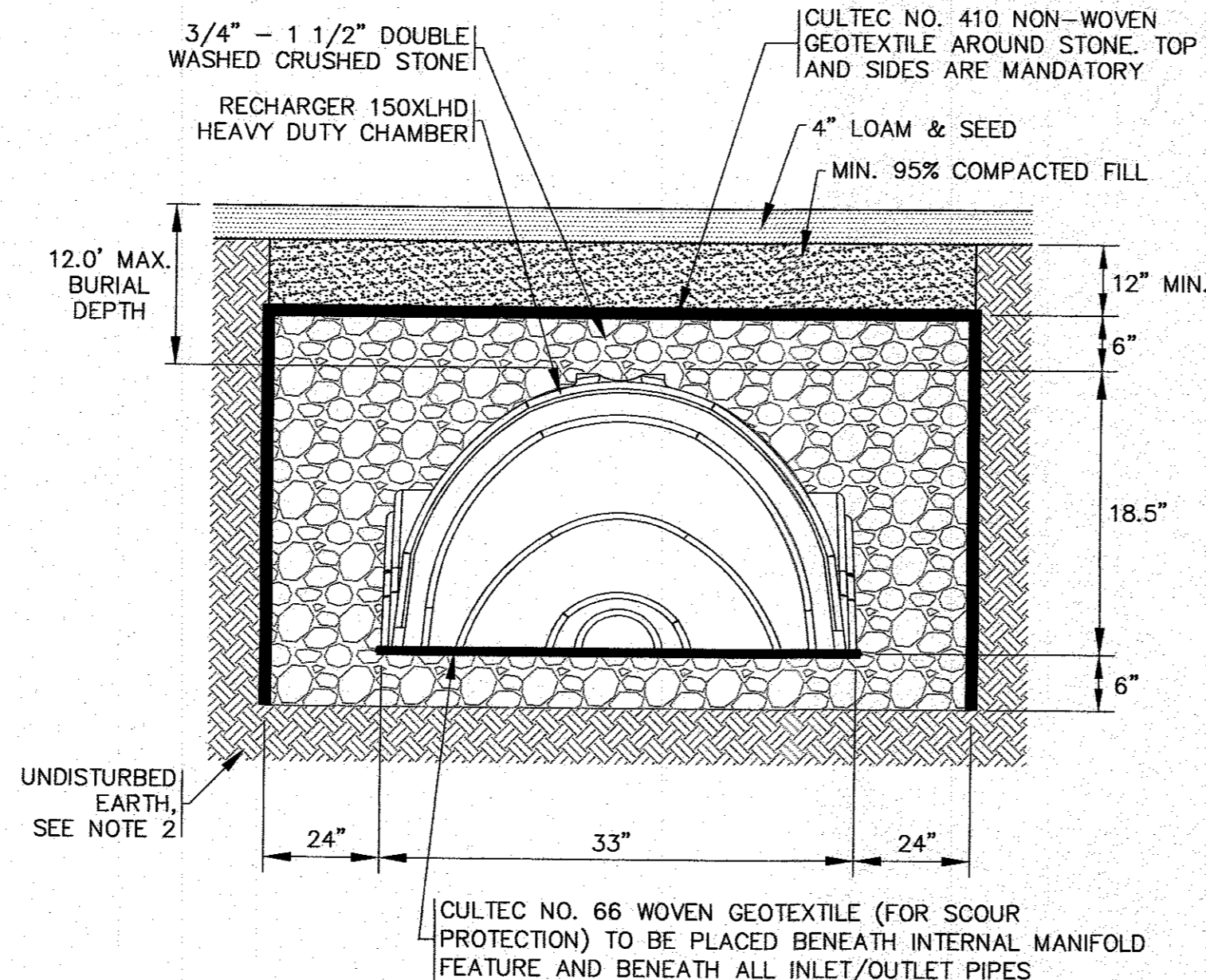


**SECTION VIEW**

**NOTES:**

- REFER TO GRADING & DRAINAGE PLAN FOR LOCATION AND ELEVATIONS OF PAVED WATERWAYS.
- GRAVEL BASE SHALL CONFORM TO MassDOT MATERIAL SPEC. SECTION M1.03.0 TYPE C.
- SUBGRADE & BASE SHALL BE COMPACTED TO MINIMUM 95% MAXIMUM DRY DENSITY.
- REMOVE UNSUITABLE SOIL BENEATH THE PROPOSED PAVED WATERWAYS. THIS INCLUDES ORGANICS, TOPSOIL, ROOTS AND OTHER UNSUITABLE SOILS.

**PAVED WATERWAY DETAIL**  
N.T.S.



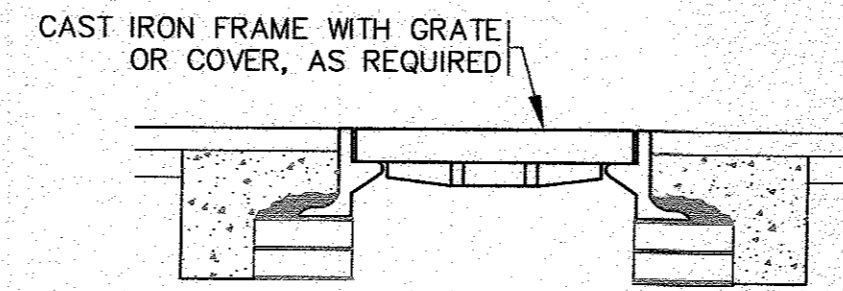
**SYSTEM ELEVATIONS:**

| BOTTOM OF STONE | BOTTOM 150XLHD'S | TOP 150XLHD'S | TOP OF STONE |
|-----------------|------------------|---------------|--------------|
| 15.30           | 15.80            | 17.30         | 17.80        |

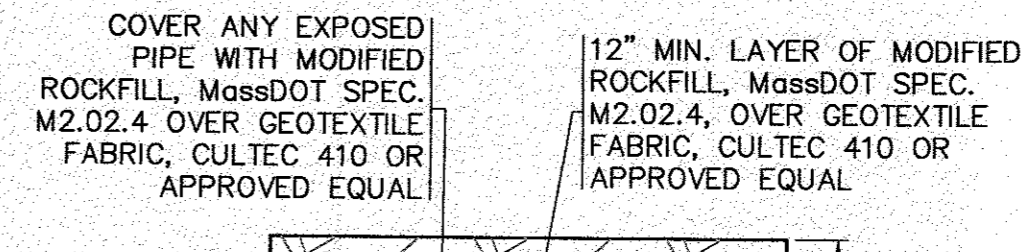
**NOTES:**

- REFER TO PLAN FOR LOCATIONS.
- REMOVE ALL UNSUITABLE SOIL 2' MINIMUM BENEATH AND AROUND ALL SIDES OF THE PROPOSED LEACHING CHAMBERS & CRUSHED STONE. THIS INCLUDES ORGANICS, TOPSOIL, ROOTS AND OTHER UNSUITABLE SOILS REPLACE WITH CLEAN SAND AND GRAVEL APPROVED BY DESIGN ENGINEER.
- FOR COMPLETE INSTALLATION DETAILS REFER TO CULTEC SPECIFICATIONS.

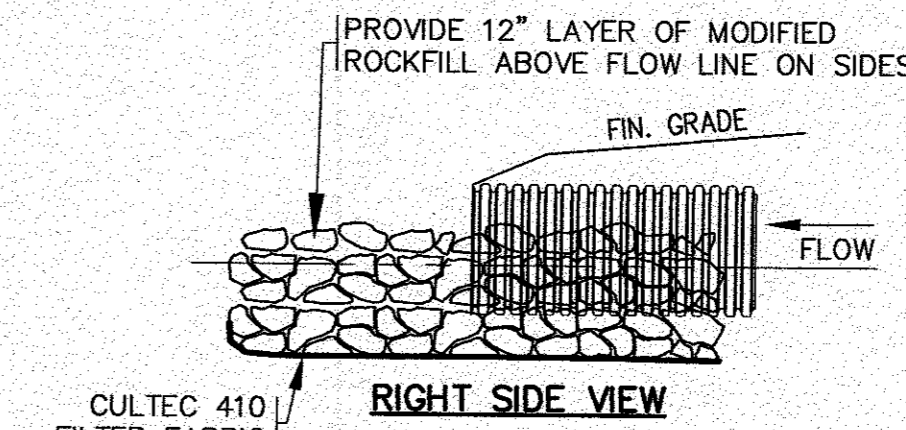
**CULTEC R150XLHD DETAIL**  
N.T.S.



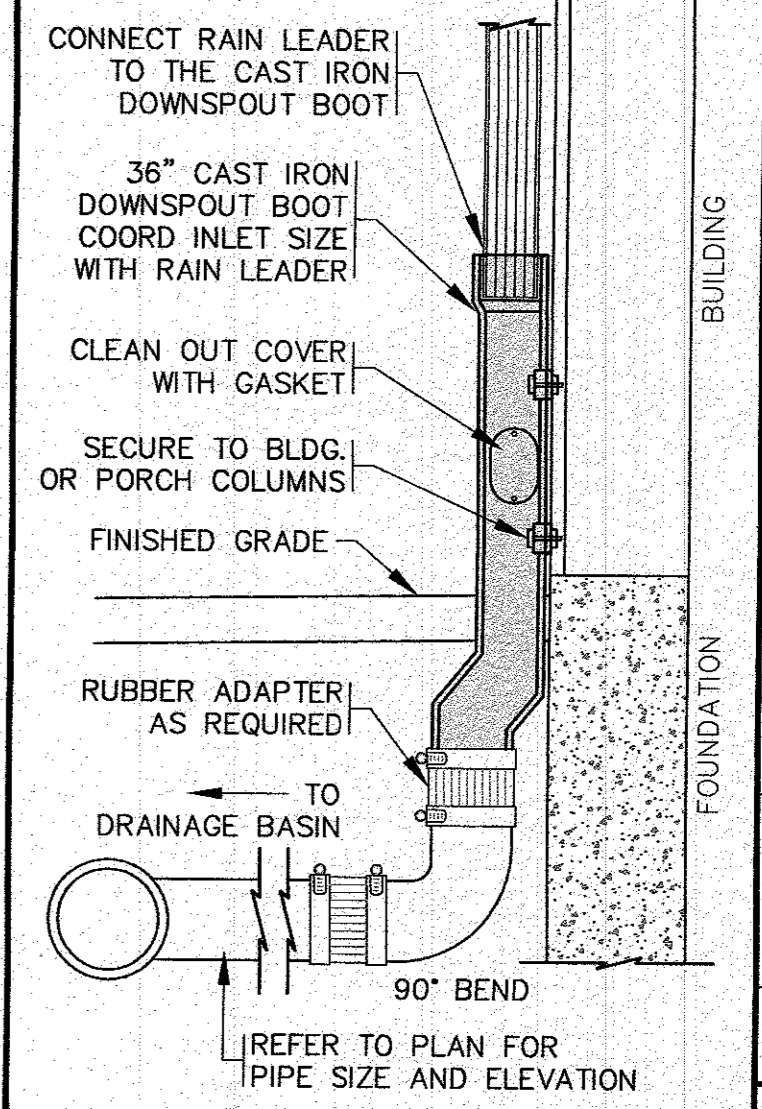
**FLAT TOP SLAB**  
N.T.S.



**PLAN VIEW**



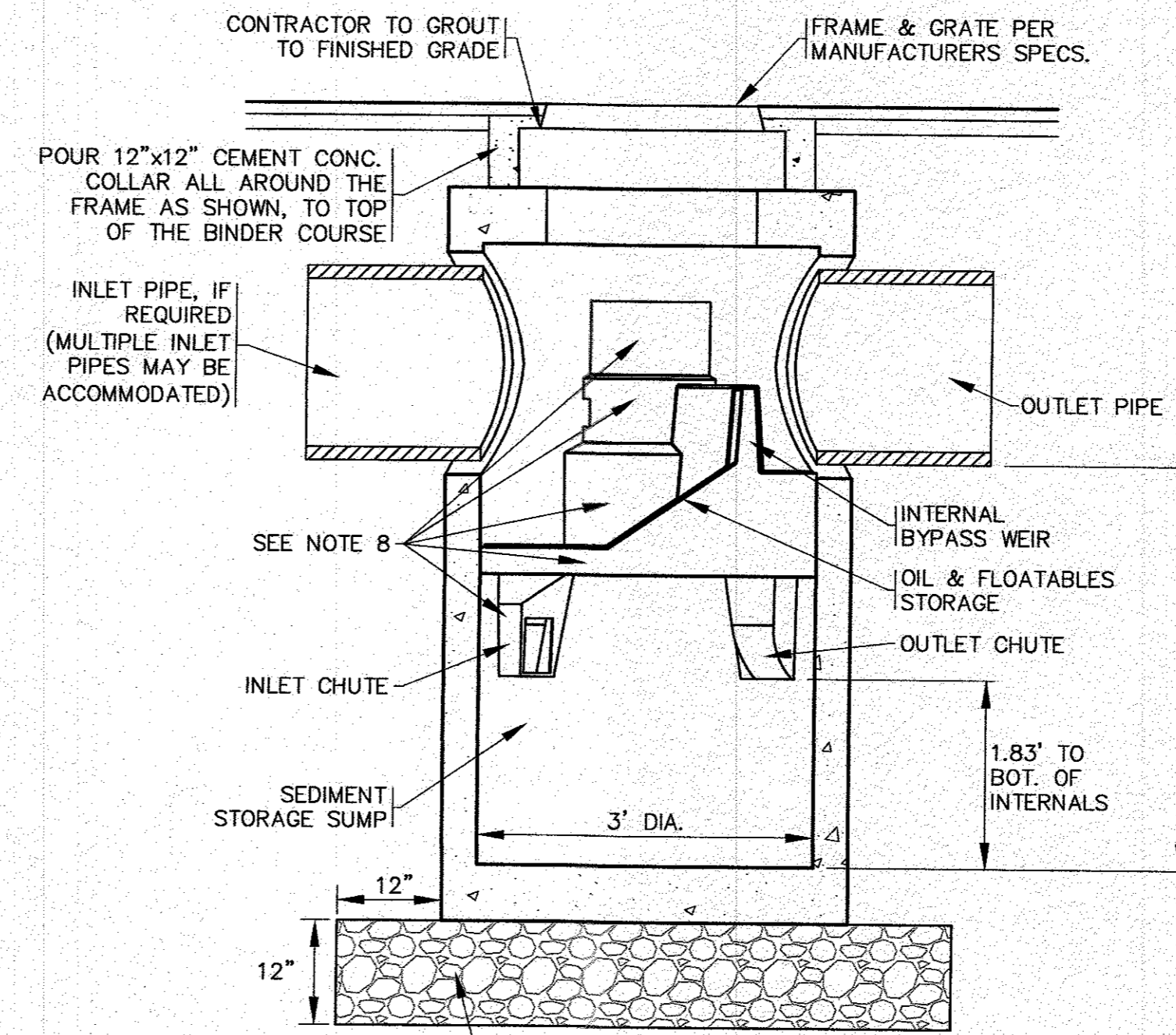
**STONE SPLASH PAD**  
N.T.S.



**NOTES:**

- REFER TO SITE PLAN FOR LOCATIONS, PIPE SIZES, INVERTS, ETC.
- REFER TO ARCHITECTURAL PLANS FOR DOWNSPOUT SIZES AND LOCATIONS.

**DOWNSPOUT DETAIL**  
N.T.S.



**FIRST DEFENSE FDHC-3 UNIT (WATER QUALITY CATCH BASIN)**  
N.T.S.

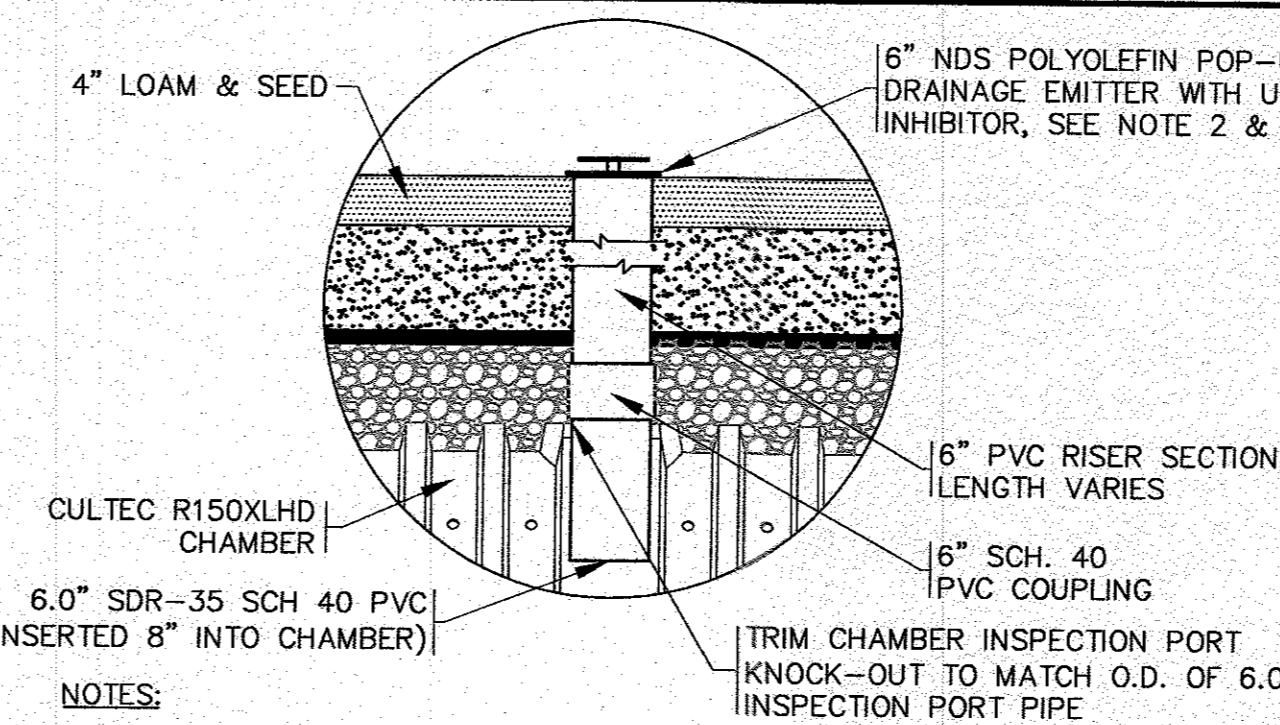
**NOTE:**  
CONTRACTOR SHALL OBTAIN SHOP DRAWINGS FROM MANUFACTURER PRIOR TO CONSTRUCTION.

**GENERAL NOTES:**

- GENERAL ARRANGEMENT DRAWINGS ONLY. CONTACT HYDRO INTERNATIONAL FOR SITE SPECIFIC DRAWINGS.
- THE DIAMETER OF THE INLET AND OUTLET PIPES MAY BE NO MORE THAN 18". REFER TO PLAN FOR PIPE SIZES.
- MULTIPLE INLET PIPES POSSIBLE (REFER TO PROJECT PLAN).
- INLET/OUTLET PIPE ANGLE CAN VARY TO ALIGN WITH DRAINAGE NETWORK (REFER TO PROJECT PLANS).
- PEAK FLOW RATE AND MINIMUM HEIGHT LIMITED BY AVAILABLE COVER AND PIPE DIAMETER.
- LARGER SEDIMENT STORAGE CAPACITY MAY BE PROVIDED WITH DEEPER SUMP DEPTH.
- THE TREATMENT SYSTEM SHALL USE AN INDUCED VORTEX TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.
- REFER TO MANUFACTURERS SHOP DRAWINGS FOR COMPLETE DETAILS, DIMENSIONS AND SYSTEM PARTS.
- FIRST DEFENSE STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING. ALL CASTINGS SHALL MEET AASHTO M306 AND HYDRO INTERNATIONAL SPECIFICATIONS.
- FIRST DEFENSE UNIT SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.

**INSTALLATION NOTES:**

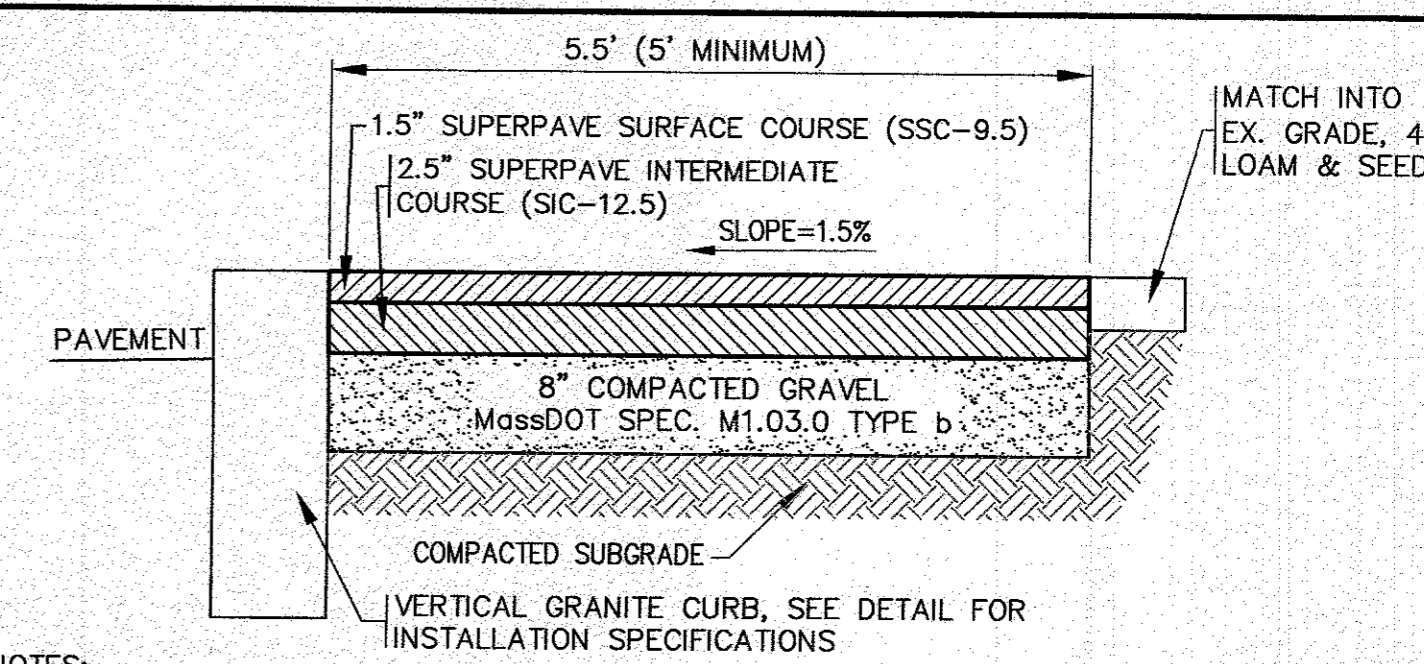
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.
- FOR COMPLETE INSTALLATION DETAILS REFER TO THE MANUFACTURERS INSTALLATION SPECIFICATIONS.
- REFER TO GRADING & DRAINAGE PLAN FOR LOCATION, ELEVATIONS AND INVERTS.



**NOTES:**

- REFER TO PLAN FOR LOCATIONS.
- PROTECT THE POP-UP DRAINAGE EMITTER DURING CONSTRUCTION WITH A 12" PERFORATED PIPE PLACED AROUND THE UNIT.
- FOR COMPLETE DETAILS AND INSTALLATION GUIDELINES REFER TO THE MANUFACTURER'S SPECIFICATIONS.

**DRAINAGE EMITTER IN INSPECTION PORT DETAIL**  
N.T.S.



**NOTES:**

- ALL SUPERPAVE SHALL BE IN ACCORDANCE WITH MassDOT SUBSECTION 702 OF THE 2021 STANDARD SPECIFICATIONS.
- GRAVEL BORROW SHALL CONFORM TO MassDOT SPEC. SECTION M1.03.0, TYPE b.
- SUBGRADE & BASE SHALL BE COMPACTED TO MINIMUM 95% MAXIMUM DRY DENSITY.
- ALL UNDISTURBED AREAS WITHIN MARION ROAD LAYOUT SHALL RECEIVE 4" OF LOAM AND SEED.

**BIT. CONC. SIDEWALK**  
N.T.S.

| DATE           | BY     | DESCRIPTION   |
|----------------|--------|---|
| AUGUST 4, 2022 | JMP    | ADDED WATER QUALITY OR. CULTEC CHAMBER & BIT. CONC. SIDEWALK DETAILS REV. DRAINAGE BASIN DETAIL ELEV. TABLE |
| 4/12/23        | JMP    | NO CHANGES THIS SHEET   |
| 11/28/22       | WFM    | PER PEER REVIEW COMMENTS  |
| 11/2/22        | JMP    | REV.  |
|                | N.T.S. | DATE  |
|                |        | BY  |
|                |        | APP'D   |

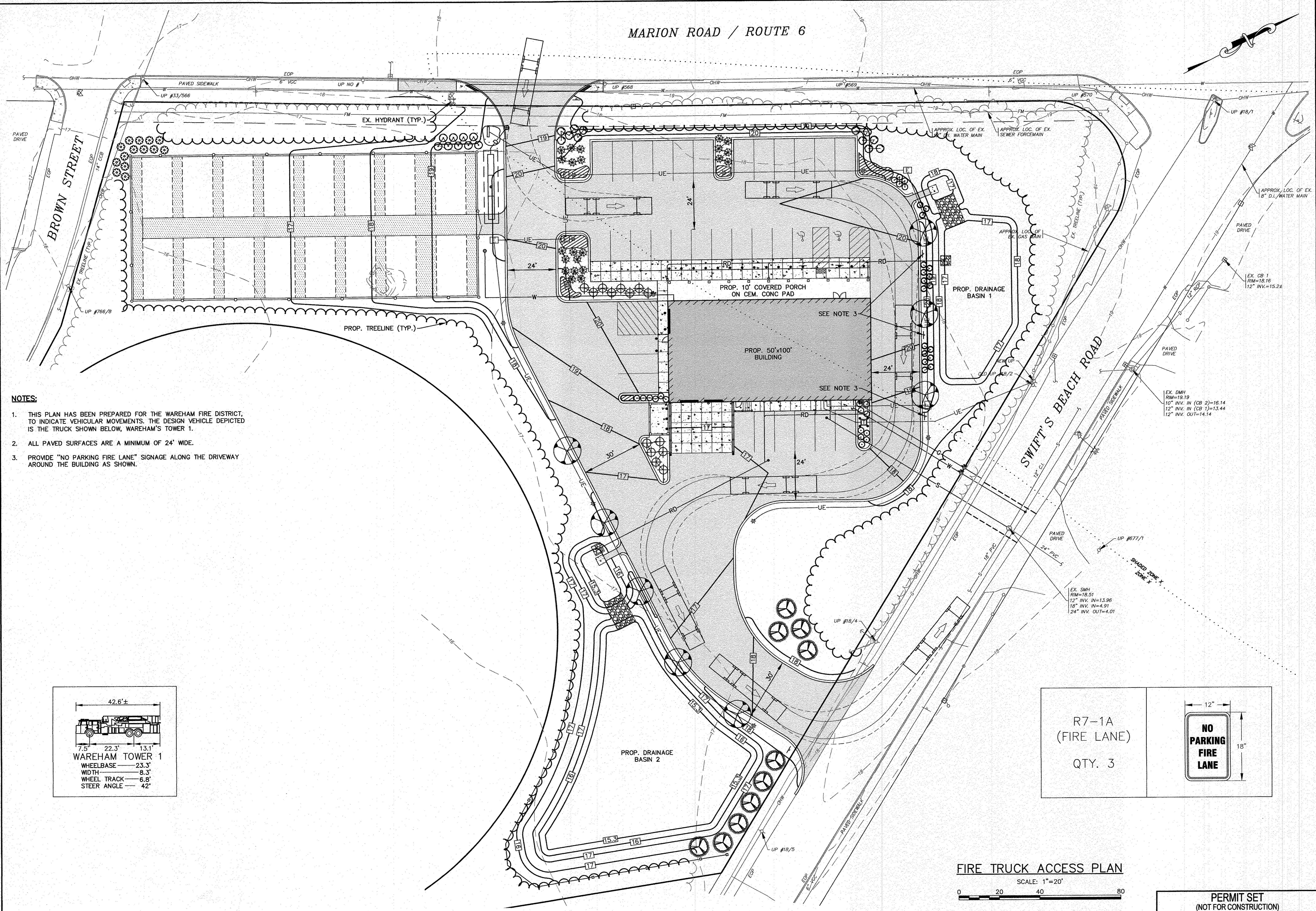
APPROVED BY:

**G.A.F. ENGINEERING, INC.**  
PROFESSIONAL ENGINEERS & LAND SURVEYORS  
266 MAIN STREET - WAREHAM, MA 02571  
TEL: (508) 295-6600 FAX: (508) 295-6634  
E-MAIL: info@gafenginc.com

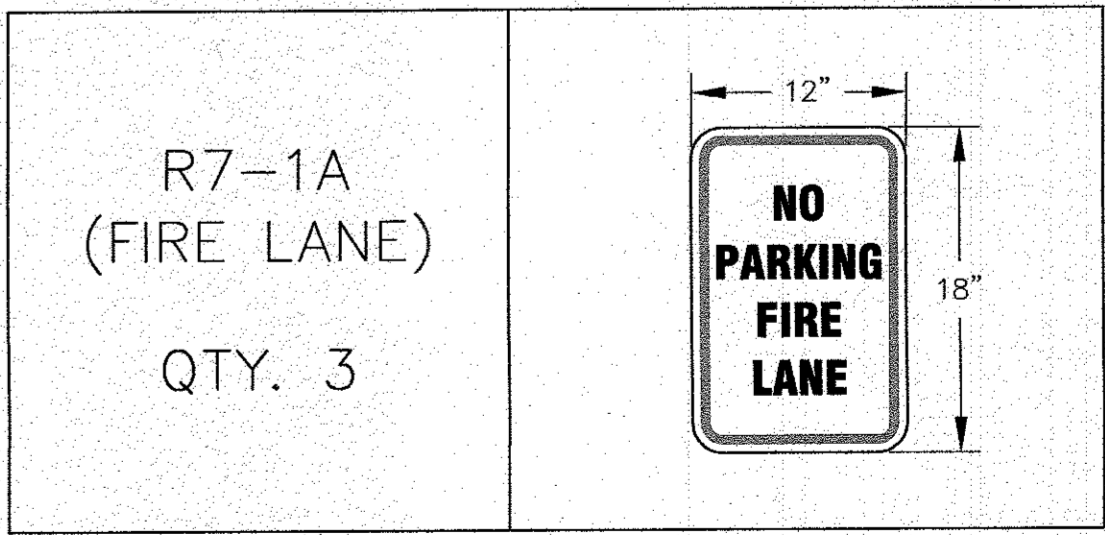
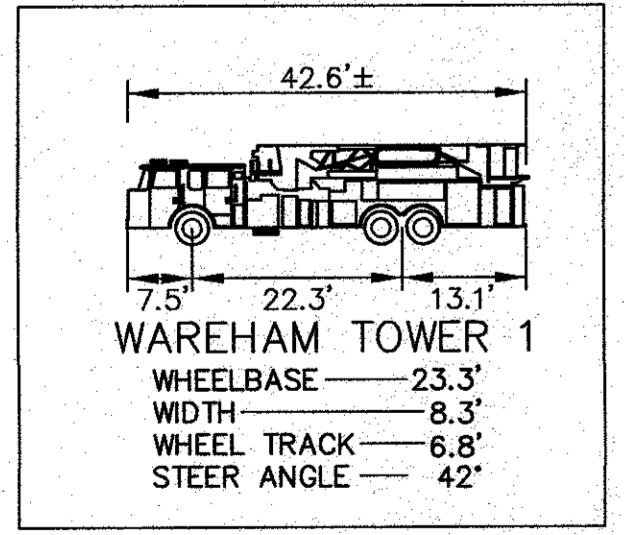
**SITE DEVELOPMENT PLAN**  
**DETAIL SHEET 3**  
WAREHAM, MA  
PREPARED FOR:  
**DAMIEN'S FOOD PANTRY**  
WAREHAM, MA  
P.O. BOX 730  
JOB NO.: 22-9838  
DWG. 11 OF 12



MARION ROAD / ROUTE 6



- NOTES:**
1. THIS PLAN HAS BEEN PREPARED FOR THE WAREHAM FIRE DISTRICT, TO INDICATE VEHICULAR MOVEMENTS, THE DESIGN VEHICLE DEPICTED IS THE TRUCK SHOWN BELOW, WAREHAM'S TOWER 1.
  2. ALL PAVED SURFACES ARE A MINIMUM OF 24' WIDE.
  3. PROVIDE "NO PARKING FIRE LANE" SIGNAGE ALONG THE DRIVEWAY AROUND THE BUILDING AS SHOWN.



**FIRE TRUCK ACCESS PLAN**

SCALE: 1"=20'  
 0 20 40 80

PERMIT SET  
 (NOT FOR CONSTRUCTION)

|   |                      |                      |                      |                      |                      |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|
| DATE: AUGUST 4, 2022  | DATE: AUGUST 4, 2022 | DATE: AUGUST 4, 2022 | DATE: AUGUST 4, 2022 | DATE: AUGUST 4, 2022 | DATE: AUGUST 4, 2022 |
| DRAWN BY: JMP   | DRAWN BY: JMP        | DRAWN BY: JMP        | DRAWN BY: JMP        | DRAWN BY: JMP        | DRAWN BY: JMP        |
| CHECKED BY: WFM   | CHECKED BY: WFM      | CHECKED BY: WFM      | CHECKED BY: WFM      | CHECKED BY: WFM      | CHECKED BY: WFM      |
| JOB NO.: 22-9838  | JOB NO.: 22-9838     | JOB NO.: 22-9838     | JOB NO.: 22-9838     | JOB NO.: 22-9838     | JOB NO.: 22-9838     |
| SCALE: 1" = 20'   | SCALE: 1" = 20'      | SCALE: 1" = 20'      | SCALE: 1" = 20'      | SCALE: 1" = 20'      | SCALE: 1" = 20'      |
| APPROVED BY:  | APPROVED BY:         | APPROVED BY:         | APPROVED BY:         | APPROVED BY:         | APPROVED BY:         |
| <p><b>G.A.F. ENGINEERING, INC.</b><br/>                 PROFESSIONAL ENGINEERS &amp; LAND SURVEYORS<br/>                 266 MAIN STREET - WAREHAM, MA 02571<br/>                 TEL: (508) 295-6600 FAX: (508) 295-6634<br/>                 E-MAIL: info@gafenginc.com</p> |                      |                      |                      |                      |                      |
| <p><b>SITE DEVELOPMENT PLAN</b><br/> <b>FIRE TRUCK ACCESS PLAN</b><br/>                 WAREHAM, MA</p>   |                      |                      |                      |                      |                      |
| <p>PREPARED FOR:<br/> <b>DAMIEN'S FOOD PANTRY</b><br/>                 WAREHAM, MA</p>  |                      |                      |                      |                      |                      |
| <p>JOB NO.: 22-9838<br/>                 DWG. 12 OF 12</p>  |                      |                      |                      |                      |                      |