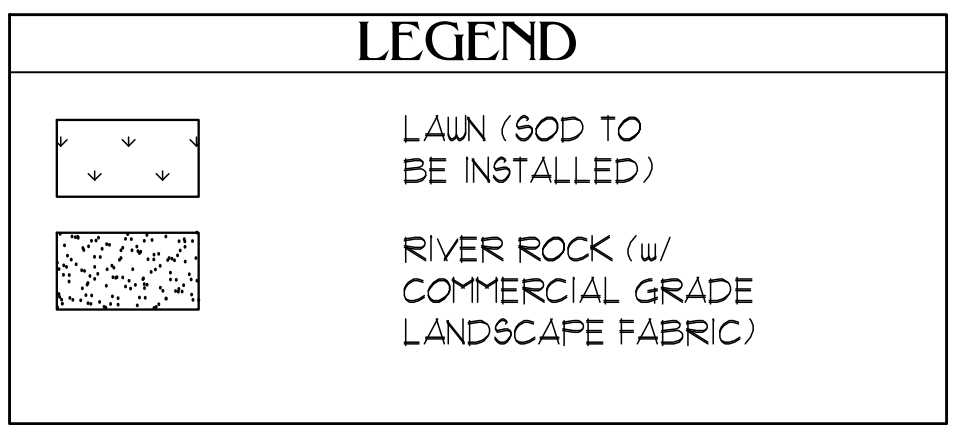


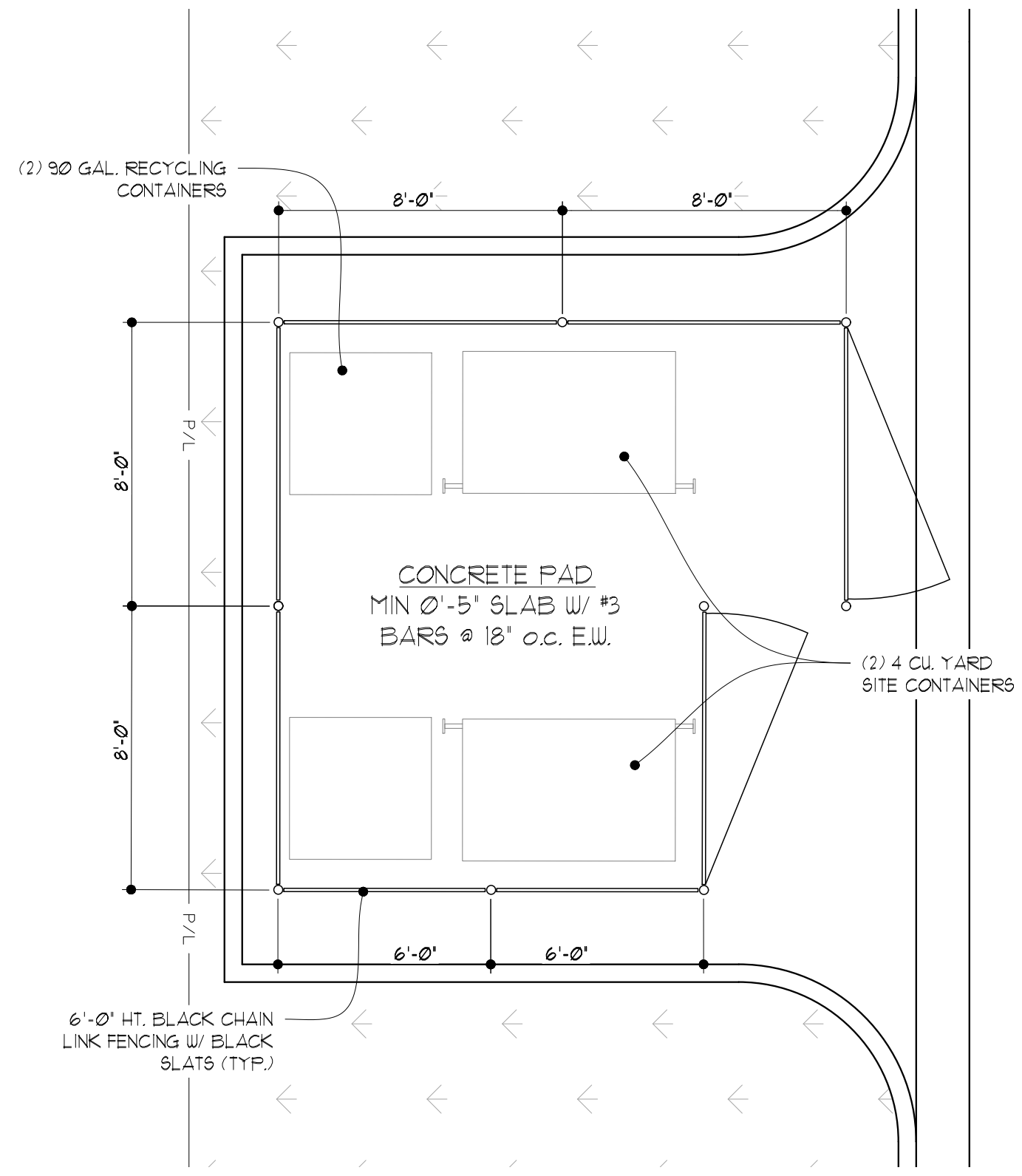
PLANTING SCHEDULE				
SYM.	QTY.	SIZE	COMMON NAME	SCIENTIFIC NAME
<b>TREE</b>				
FAJ	3	1 1/2' CAL.	AUTUMN PURPLE ASH	FRAXINUM AMERICANA 'JUNGINGER'
PCC	6	1 1/2' CAL.	CAPITAL PEAR	PYRUS CALLEYANA 'CAPITAL'
TCC	8	1 1/2' CAL.	CORINTHIAN LINDEN	TILIA CORDATA 'CORZAM'
<b>SHRUB</b>				
BSM	8	2 GAL.	GREEN TOWER BOXWOOD	BUXUS SEMPERVIRENS 'MONRIE'
BSS	24	2 GAL.	DWARF ENGLISH BOXWOOD	BUXUS SEMPERVIRENS 'SUFFRUTICOSA'
BTC	10	2 GAL.	CRIMSON PYGMY BARBERRY	BERBERIS THUNBERGII 'CRIMSON PYGMY'
CMP	31	2 GAL.	COMPACT MUGO FINE	FINUS MUGO FUMILIO 'COMPACT SELECT'
FGE	44	1 GAL.	ELIJAH BLUE FESCUE	FESTUCA GLAUCA 'ELIJAH BLUE'
FRG	10	1 GAL.	FEATHER REED GRASS	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'
SGM	20	2 GAL.	GOLD FLAME SPIRAEA	SPIRAEA JAPONICA 'GOLD MOUND'
SHH	8	2 GAL.	SCALLYWAG HOLLY	ILEX X MESERVEAE 'MONNIEVES'
UAC	6	2 GAL.	DWARF BURNING BUSH	EUONYMUS ALATUS 'COMPACTUS'
YBC	4	2 GAL.	KOREAN SPICE VIBURNUM	VIBURNUM CARLESII



- NOTE:
- THIS LANDSCAPE PLAN IS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF ZONING CODE SECT. 31-153 AND IT SHALL BE PLANTED BY THE LANDSCAPE CONTRACTOR AS PER THE PLAN OR CHANGED OR PLANTED DIFFERENTLY ONLY BY APPROVAL OF THE LANDSCAPE DESIGNER OF RECORD AND THE CITY PLANNER.
  - REQUIRED SHADE TREES WILL BE OF SUCH SPECIES AND CANOPY SHAPE TO PROVIDE A PREDICTED FIFTY (50) PERCENT CANOPY COVER OF THE PARKING LOT AREA AFTER A TEN (10) YEAR GROWTH PERIOD.
  - ALL LANDSCAPE AREAS TO BE SUPPORTED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM TO BE DESIGNED AND INSTALLED BY THE LANDSCAPE CONTRACTOR.
  - LANDSCAPE SUB SHALL INCLUDE AND BE RESPONSIBLE FOR PARKING LOT CLEAN/WASH AT COMPLETION OF HIS WORK.
  - ALL PLANTINGS AND IRRIGATION THAT SURROUND THE BUILDING TO BE CONNECTED TO WATER METER ASSOCIATED WITH BUILDING.

**INTERIOR LANDSCAPING**  
 TOTAL VEHICULAR SURFACE AREA 17,304 S.F.  
 TOTAL INTERIOR LANDSCAPING AREA 1,340 S.F.

PERCENT OF INTERIOR LANDSCAPING REQ'D 5%  
 17,304 X .05 = 865 S.F. INTERIOR LANDSCAPING REQUIRED. **1,340 S.F. PROVIDED**



**Dumpster Enclosure**

SCALE: 1/4" = 1'-0"

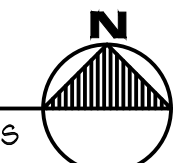
Bryden Drive

5th Street

**Landscape Plan**

SCALE: 1" = 20'-0"

REFER TO CIVIL FOR GRADES & DIMENSIONS



LICENSED ARCHITECT  
 AR-914886  
 TIMOTHY P. LYNCH  
 STATE OF IDAHO

THESE DRAWINGS ARE COPYRIGHTED AND ARE NOT SUITABLE FOR USE ON OTHER PROJECTS OR IN OTHER LOCATIONS WITHOUT THE APPROVAL AND PARTICIPATION OF THE ARCHITECT.

Revisions		
1	CITY REVIEW	08/03/18
2	ADDENDUM #1	08/17/18
3	ADDENDUM #2	08/22/18
4	ADDENDUM #3	08/23/18
5	ADDENDUM #4	10/01/18
6	ADDENDUM #5	10/01/18

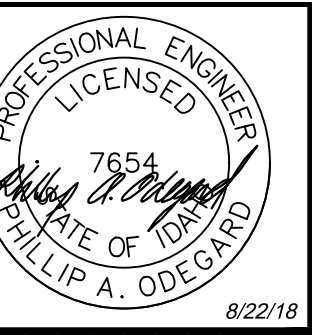
**LC Smiles Dental Clinic**  
 for Dr. Bartschi  
 442 Bryden Ave., Lewiston, ID

ARCHITECT  
 504 M. In Street  
 S. He 480  
 Lewiston, ID 83501  
 208.743.8902

Job Number: 17-060  
 Date: 08-08-2018  
 Sheet Contents:  
 LANDSCAPE & SITE PLAN

**L1.1**

# BARTSCHI DENTAL OFFICE SITE DEVELOPMENT LEWISTON, ID 83501



REV	DATE	REVISION



**DRAWN BY:** BRL  
**DESIGNED BY:** JR/BL  
**QUALITY CHECK:** PAO  
**DATE:** 08/22/18  
**JOB NO.:** L18-032  
**FIELDBOOK**

**BARTSCHI DENTAL OFFICE  
LEWISTON, IDAHO 83501**

**COVER SHEET**

L18-032\_C1.0\_COVER.DWG  
**SHEET C1.0**

SHEET INDEX	
NO.	DESCRIPTION
C1.0	COVER SHEET
C2.0	EROSION & SEDIMENT CONTROL PLAN
C2.1	EROSION & SEDIMENT CONTROL DETAILS
C3.0	EXISTING SITE & DEMOLITION PLAN
C4.0	SITE PLAN
C4.1	DETAILS
C4.2	DETAILS
C5.0	UTILITY PLAN
C5.1	UTILITY DETAILS
C6.0	GRADING & DRAINAGE PLAN
C6.1	GRADING & DRAINAGE DETAILS
11	TOTAL NUMBER OF SHEETS

## GENERAL NOTES

- THE CONTRACTOR SHALL INVESTIGATE ON SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS OF THE PROJECT AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY IN THE CONTRACT DOCUMENTS REQUIRING MODIFICATION PRIOR TO PROCEEDING.
- THE CONTRACTOR SHALL COORDINATE THE WORK SCHEDULE SO AS TO HAVE A MINIMUM IMPACT ON THE EXISTING TRAFFIC.
- SITE DISTANCES FOR ABUTTING PROPERTIES, DRIVEWAYS, AND INTERSECTIONS MUST BE MAINTAINED.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PREVENTATIVE MEASURES TO PROTECT THE EXISTING IMPROVEMENTS. ANY DAMAGE SHALL BE REPLACED AT NO COST TO THE OWNER.
- OWNER'S PROPERTY CORNERS SHALL BE PROTECTED AT ALL TIMES, AND THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF IDAHO TO REFERENCE ALL CORNERS, UPON COMPLETION OF THE PROJECT, ALL EXISTING CORNERS DAMAGED BY CONSTRUCTION SHALL BE REPLACED BY A PROFESSIONAL LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- A RIGHT-OF-WAY PERMIT SHALL BE OBTAINED THROUGH THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY WORK BEGINNING WITHIN PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND FEES.
- ALL WORK SHALL CONFORM TO STATE AND LOCAL CODES AND CONFORM TO THE CITY OF LEWISTON STANDARD DRAWINGS AND IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPMC) EXCEPT AS OTHERWISE SPECIFIED OR APPROVED BY THE ENGINEER. ALL CONSTRUCTION NOT SPECIFICALLY MENTIONED OR SHOWN SHALL CONFORM TO CITY OF LEWISTON ORDINANCES AND STANDARDS.
- UPON COMPLETION, CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS, COMPLETE WITH ELEVATIONS, TO THE ENGINEER OF RECORD.
- THIS PROJECT SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF ALL WORK. ANY DEFECTS IN MATERIAL OR WORKMANSHIP WITHIN THIS PERIOD SHALL BE IMMEDIATELY CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.



**VICINITY MAP**  
NOT TO SCALE

## UTILITY LOCATION

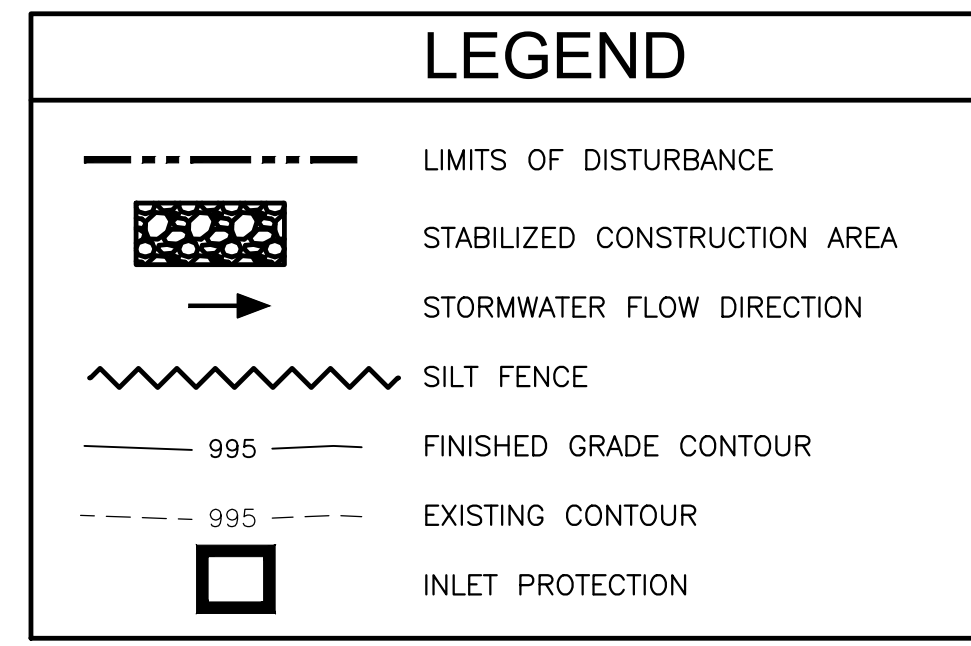
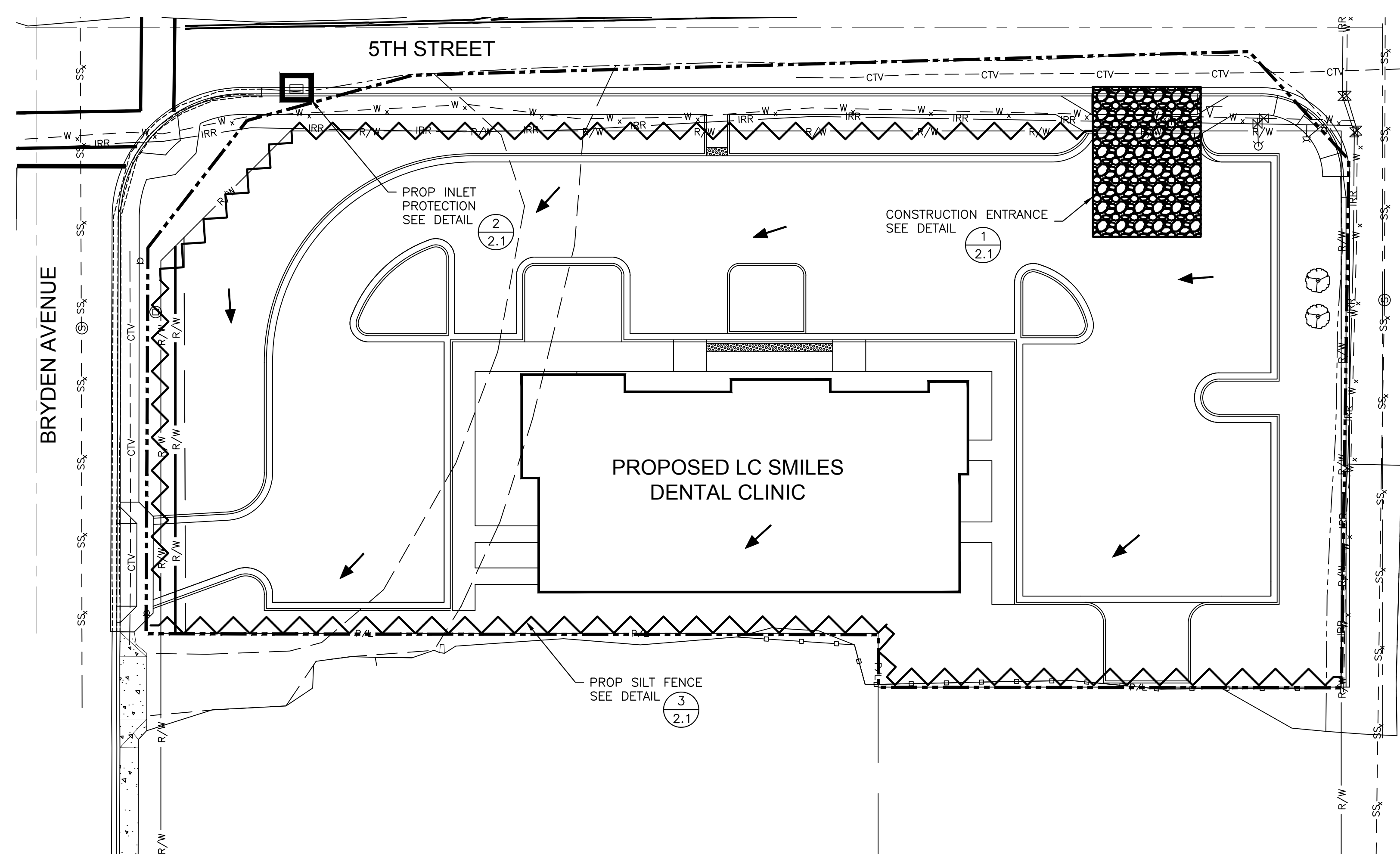
THE LOCATIONS OF UTILITIES REPRESENTED IN THIS DRAWING SET HAVE BEEN DETERMINED FROM A FIELD LOCATE AND FROM RECORDS OBTAINED FROM THE VARIOUS UTILITY COMPANIES. THE NUMBER AND LOCATIONS OF ALL UTILITIES SHOWN ARE BASED ON THE BEST EVIDENCE AVAILABLE AT THIS TIME BUT DUE TO INHERENT LIMITATIONS OF UNDERGROUND LOCATING AND LIMITED AS-BUILT DATA ALL UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. FOR YOUR SAFETY, STATE LAW REQUIRES THAT YOU CALL THE LOCAL "ONE-CALL" UNDERGROUND UTILITY LOCATING CENTER AT LEAST TWO WORKING DAYS BEFORE BEGINNING ANY EXCAVATION:

1-800-424-5555 (or 811)

"CALL BEFORE YOU DIG"

## LEGEND

NEW	EXISTING	DESCRIPTION
[Symbol]	[Symbol]	ASPHALT
[Symbol]	[Symbol]	BUILDING
[Symbol]	[Symbol]	BUSH OR SHRUB
[Symbol]	[Symbol]	CONCRETE
[Symbol]	[Symbol]	CONTOUR
[Symbol]	[Symbol]	CONTROL POINT
[Symbol]	[Symbol]	CURB & GUTTER
[Symbol]	[Symbol]	EDGE OF ASPHALT
[Symbol]	[Symbol]	ELECTRICAL BOX
[Symbol]	[Symbol]	ELECTRICAL BOX FLUSH
[Symbol]	[Symbol]	ELECTRIC - OVERHEAD
[Symbol]	[Symbol]	ELECTRIC - UNDERGROUND
[Symbol]	[Symbol]	FENCE - WIRE
[Symbol]	[Symbol]	FIRE HYDRANT
[Symbol]	[Symbol]	GAS
[Symbol]	[Symbol]	GAS VALVE
[Symbol]	[Symbol]	GATE
[Symbol]	[Symbol]	LANDSCAPING
[Symbol]	[Symbol]	POWER POLE
[Symbol]	[Symbol]	PROPERTY LINE
[Symbol]	[Symbol]	RIGHT-OF-WAY
[Symbol]	[Symbol]	SANITARY SEWER
[Symbol]	[Symbol]	SANITARY SEWER MANHOLE
[Symbol]	[Symbol]	SPOT ELEVATIONS
[Symbol]	[Symbol]	STORM DRAIN
[Symbol]	[Symbol]	STORM DRAIN INLET
[Symbol]	[Symbol]	STORM DRAIN MANHOLE
[Symbol]	[Symbol]	TELEPHONE RISER
[Symbol]	[Symbol]	TELEPHONE RISER FLUSH
[Symbol]	[Symbol]	TELEPHONE - UNDERGROUND
[Symbol]	[Symbol]	TREE - CONIFEROUS
[Symbol]	[Symbol]	TREE - DECIDUOUS
[Symbol]	[Symbol]	WATERLINE
[Symbol]	[Symbol]	WATER VALVE



**EROSION AND SEDIMENT CONTROL PLAN**



**SOIL STABILIZATION PRACTICES**

**INTERIM AND PERMANENT STABILIZATION PRACTICES:** INTERIM STABILIZATION CONTROL PRACTICES WILL BE ESTABLISHED AND SET IN PLACE PRIOR TO BEGINNING PROJECT CONSTRUCTION AND WILL BE MAINTAINED THROUGHOUT THE ENTIRE PROJECT CONSTRUCTION TIME PERIOD. PERMANENT STABILIZATION PRACTICES SHALL BE CONSTRUCTED AT THE EARLIEST POSSIBLE TIME IN THE SEQUENCE OF PROJECT CONSTRUCTION ACTIVITIES. THE PROPOSED INTERIM AND PERMANENT STABILIZATION PRACTICES ARE BASED ON IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY BMP AND ARE LISTED AS FOLLOWS:

**TIMING OF CONSTRUCTION:** SCHEDULE AND SEQUENCE CONSTRUCTION WORK AND EROSION CONTROL APPLICATIONS SO THAT THEY OCCUR UNDER OPTIMAL CONDITIONS--THAT IS, DURING PERIODS WHEN THE POTENTIAL FOR EROSION IS LOWEST.

**PRESERVATION OF EXISTING VEGETATION:** PROTECT EXISTING VEGETATION (INCLUDING TREES, GRASSES, AND OTHER PLANTS) BY PREVENTING DISTURBANCE OR DAMAGE TO SPECIFIED AREAS OF A CONSTRUCTION SITE OR RIGHT-OF-WAY.

**CLEARING LIMITS:** MINIMIZE THE TOTAL AMOUNT OF BARE SOIL EXPOSED TO EROSION FORCES BY (1) CONTROLLING THE AMOUNT OF GROUND THAT IS CLEARED AND GRUBBED AT ONE TIME IN PREPARATION FOR CONSTRUCTION, AND (2) LIMITING THE AMOUNT OF TIME THAT BARE GROUND MAY REMAIN EXPOSED BEFORE SLOPE PROTECTION OR STABILIZATION MEASURES ARE PUT INTO PLACE.

**STABILIZATION OF CONSTRUCTION ENTRANCE ROADS:** A TEMPORARY SEDIMENT REMOVAL DEVICE--NORMALLY A PAD OF CRUSHED ROCK OR STONE--CAN BE INSTALLED AT THE APPROACH FROM A CONSTRUCTION SITE TO A PUBLIC ROADWAY, TO STABILIZE THE ROAD.

**DUST CONTROL:** THIS DESCRIBES PRODUCTS OR MEASURES USED FOR REDUCING OR PREVENTING WIND EROSION BY PROTECTING THE SOIL SURFACE, ROUGHENING THE SURFACE REDUCING THE SURFACE WIND VELOCITY. SEVERAL DUST CONTROL TREATMENTS ARE DESCRIBED BELOW. OTHER METHODS ARE ALSO AVAILABLE.

**VEGETATIVE COVER:** FOR DISTURBED AREAS NOT SUBJECT TO TRAFFIC, VEGETATION PROVIDES THE MOST PRACTICAL METHOD OF DUST CONTROL.

**MULCH (INCLUDING GRAVEL MULCH):** WHEN PROPERLY APPLIED, MULCH OFFERS A FAST, EFFECTIVE MEANS OF CONTROLLING DUST.

**SPRINKLING:** THE SITE MAY BE SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. SPRINKLING IS ESPECIALLY EFFECTIVE FOR DUST CONTROL ON HAUL ROADS AND OTHER TRAFFIC ROUTES.

**STONE:** STONE OR GRAVEL USED TO STABILIZE CONSTRUCTION ROADS AND DISTURBED SOILS CAN ALSO BE EFFECTIVE FOR DUST CONTROL AND REDUCE SOIL LOSSES FROM THOSE AREAS BY UP TO 80 PERCENT.

**SURFACE ROUGHENING:** TILLING OR DISCING THE SURFACE OF DISTURBED SOILS TO PRODUCE A ROUGH SURFACE OR RIDGES WHICH WHEN PERPENDICULAR TO PREVAILING WINDS CAN REDUCE SOIL LOSSES DUE TO WIND BY 80 PERCENT.

**BARRIERS:** A BOARD FENCE, WIND FENCE, SEDIMENT FENCE, OR SIMILAR BARRIER CAN CONTROL AIR CURRENTS AND BLOWING SOIL.

**SEEDING:** PERMANENT SEEDING MEANS GROWING A LONG-TERM OR PERMANENT VEGETATIVE COVER (PLANTS) ON DISTURBED AREAS OR AREAS THAT NEED ASSISTANCE IN REVEGETATION.

**PERMANENT STORM WATER SYSTEM:** THE NEW CONSTRUCTION SITE WILL INCLUDE NEW PERMANENT CURB, GUTTER AND STORMWATER PIPING FOR COLLECTION AND CONVEYANCE OF ALL STORMWATER RUNOFF TO EXISTING STORMWATER SYSTEMS.

**GENERAL MAINTENANCE & GUIDELINES**

1. EROSION AND DUST CONTROL MEASURES MUST BE USED DURING CONSTRUCTION TO REDUCE OR ELIMINATE BLOWING DUST, EXCESSIVE RUNOFF, AND SOIL EROSION ACROSS PROPERTY LINES AND INTO STREETS AND RIGHT-OF-WAY, AND TO ELIMINATE TRACKING SOIL AND MUD ONTO STREETS FROM CONSTRUCTION EQUIPMENT AND VEHICLES. THE CONTRACTOR IS RESPONSIBLE FOR STREET CLEANUP AT THE END OF EACH SHIFT.
2. IT IS IMPORTANT TO IMPLEMENT A THOROUGH MAINTENANCE PROGRAM BEFORE, DURING, AND AFTER DEVELOPMENT IS COMPLETED. INSPECT ALL BMPs AND ADDITIONAL SAFEGUARDS TO DETERMINE THAT THEY ARE WORKING PROPERLY AND TO ENSURE THAT PROBLEMS ARE CORRECTED AS SOON AS THEY DEVELOP. THE MAINTENANCE SCHEDULE SHOULD BE BASED ON SITE CONDITIONS, DESIGN SAFEGUARDS, CONSTRUCTION SEQUENCE, AND ANTICIPATED WEATHER CONDITIONS.
3. INSPECTIONS SHOULD INCLUDE MATERIALS STORAGE AREAS, LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE, THE OPERATIONAL FUNCTIONALITY OF BMPs, AND EVIDENCE OF POLLUTANTS ENTERING THE DRAINAGE SYSTEM IN DISTURBED AREAS. AN INDIVIDUAL SHOULD BE ASSIGNED THE RESPONSIBILITY FOR ROUTINE CHECKS OF OPERATING PRACTICES. ALL TEMPORARY AND PERMANENT EROSION CONTROL BMPs SHOULD BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. SPECIAL ATTENTION SHOULD BE PAID TO CONTROLS AFTER STORM EVENTS TO ENSURE THEY ARE FUNCTIONING PROPERLY.
4. AREAS TO HAVE PERMANENT SEEDING SHALL BE GRADED WITHIN A MINIMUM OF SIX INCHES OF TOPSOIL.

**POLLUTION CONTROL**

**EROSION & SEDIMENT CONTROL NOTES:**

**POLLUTION CONTROL MEASURES:** POLLUTION CONTROL MEASURES WILL BE ESTABLISHED AND SET IN PLACE PRIOR TO BEGINNING PROJECT CONSTRUCTION AND WILL BE MAINTAINED THROUGHOUT THE ENTIRE PROJECT CONSTRUCTION TIME PERIOD. THE PROPOSED POLLUTION CONTROL MEASURES ARE BASED ON IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY BEST MANAGEMENT PRACTICES (BMP'S) AND ARE LISTED AS FOLLOWS:

**STAGING AREAS:** THIS BMP INCLUDES MEASURES FOR COLLECTING RUNOFF FROM A STAGING AREA, MATERIALS STORAGE SITE, OR INDUSTRIAL ACTIVITY AREA OR FOR DIVERTING WATER FLOW AWAY FROM SUCH AREAS SO THAT POLLUTANTS DO NOT MIX WITH CLEAN STORMWATER RUNOFF. SEVERAL OPTIONS ARE AVAILABLE:

**STORMWATER CONVEYANCES:** THIS TERM INCLUDES MANY KINDS OF CHANNELS, GUTTERS, DRAINS, AND SEWERS.

**SPILL PREVENTION AND CONTROL:** THIS DESCRIBES METHODS OF MINIMIZING EXPOSURE OF POLLUTANTS TO STORM WATER RUNOFF BY ENCLOSING ANY DRIPS, OVERFLOWS, LEAKS, AND OTHER LIQUID MATERIAL RELEASES OR BY ISOLATING POLLUTANT SPILLS FROM STORMWATER RUNOFF. THREE POSSIBLE OPTIONS ARE DISCUSSED BELOW:

**CONTAINMENT DIKING:** TEMPORARY OR PERMANENT EARTH BERMS, CONCRETE BERMS, OR RETAINING WALLS DESIGNED TO HOLD SPILLS.

**CURBING:** LIKE CONTAINMENT DIKING, CURBING IS A BARRIER THAT SURROUNDS AN AREA OF CONCERN.

**DRIP PANS:** PANS USED TO CONTAIN VERY SMALL VOLUMES OF LEAKS, DRIPS, AND SPILLS.

**UTILITY LOCATION**

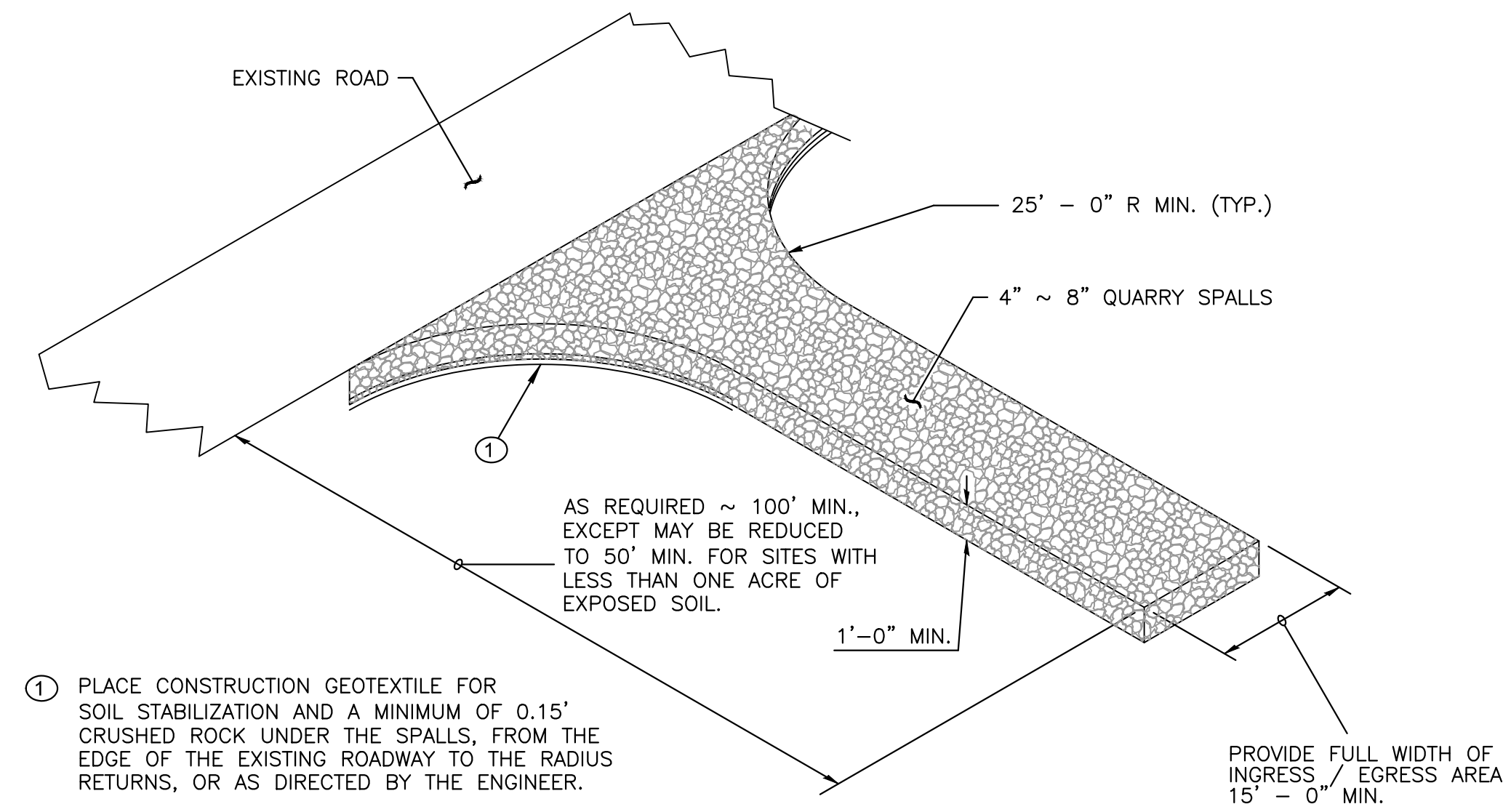
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REV	DATE	REVISION

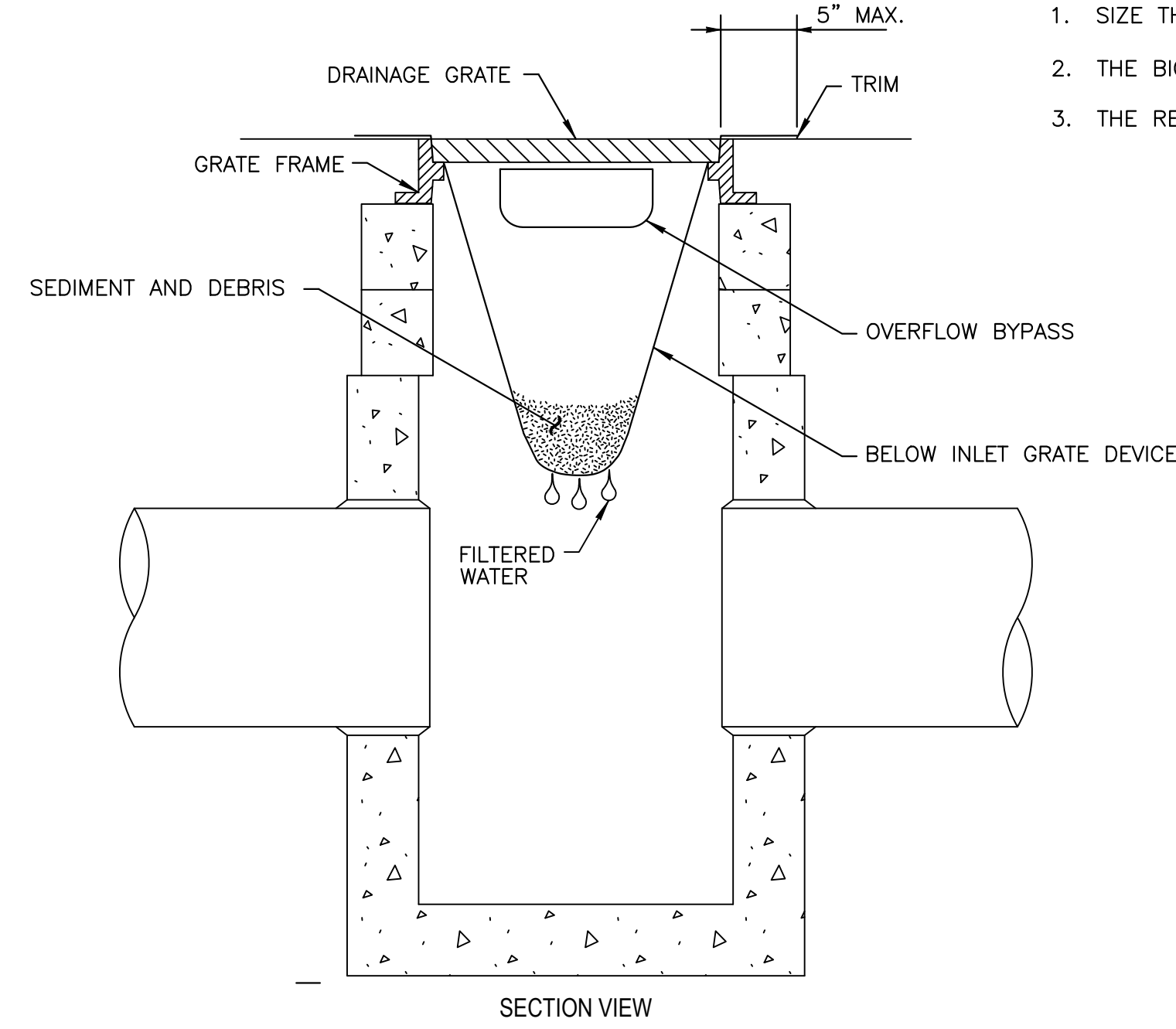
**TD&H**  
Engineering  
206.746.0938 • tdenengineering.com  
210 MAIN ST. • LEWISTON, IDAHO 83501

DRAWN BY: BRL  
DESIGNED BY: BRL  
QUALITY CHECK: PAO  
DATE: 8/22/18  
JOB NO. L18-032  
FIELDBOOK

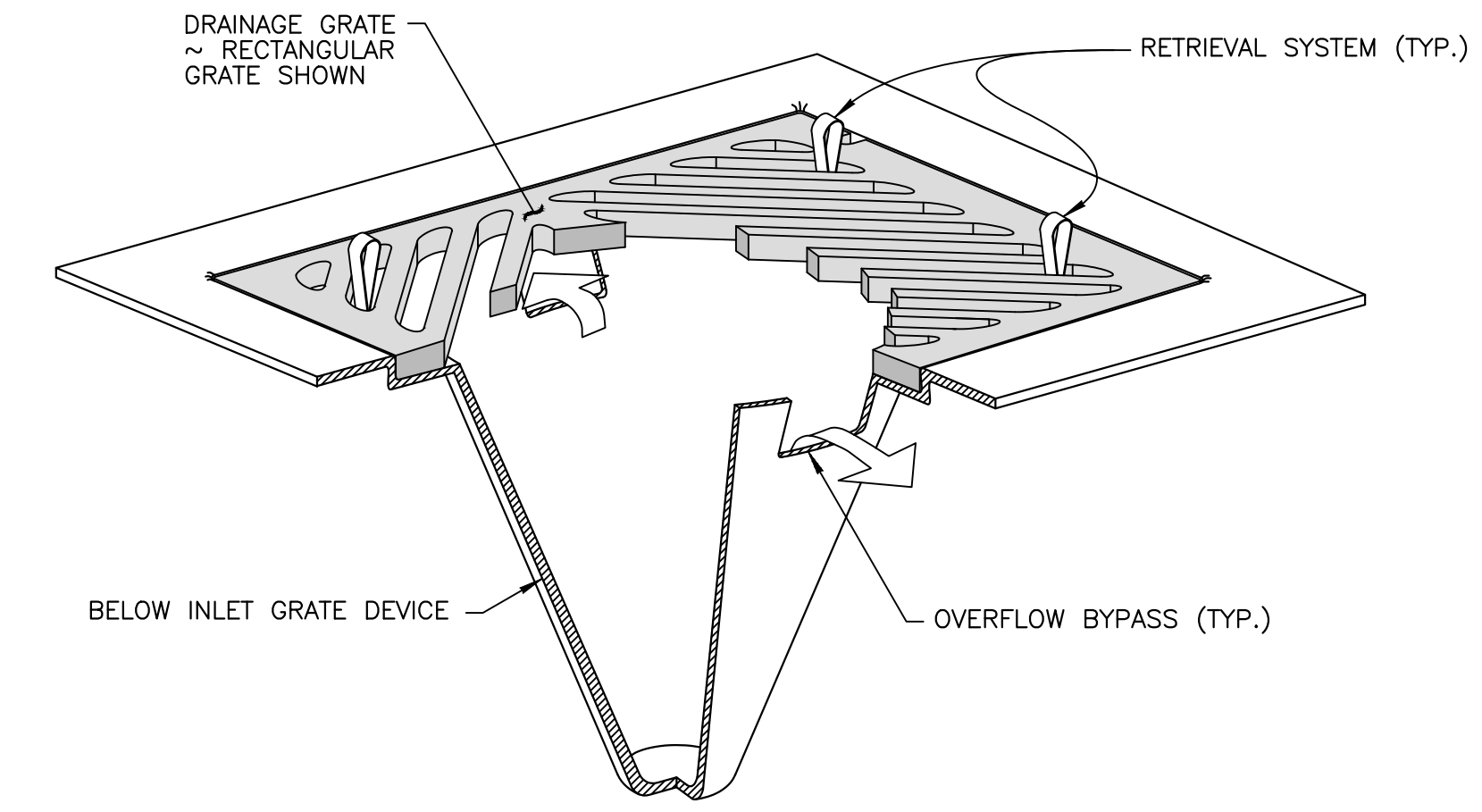
LC SMILES DENTAL CLINIC SITE DEVELOPMENT  
LEWISTON, ID  
EROSION & SEDIMENT CONTROL PLAN



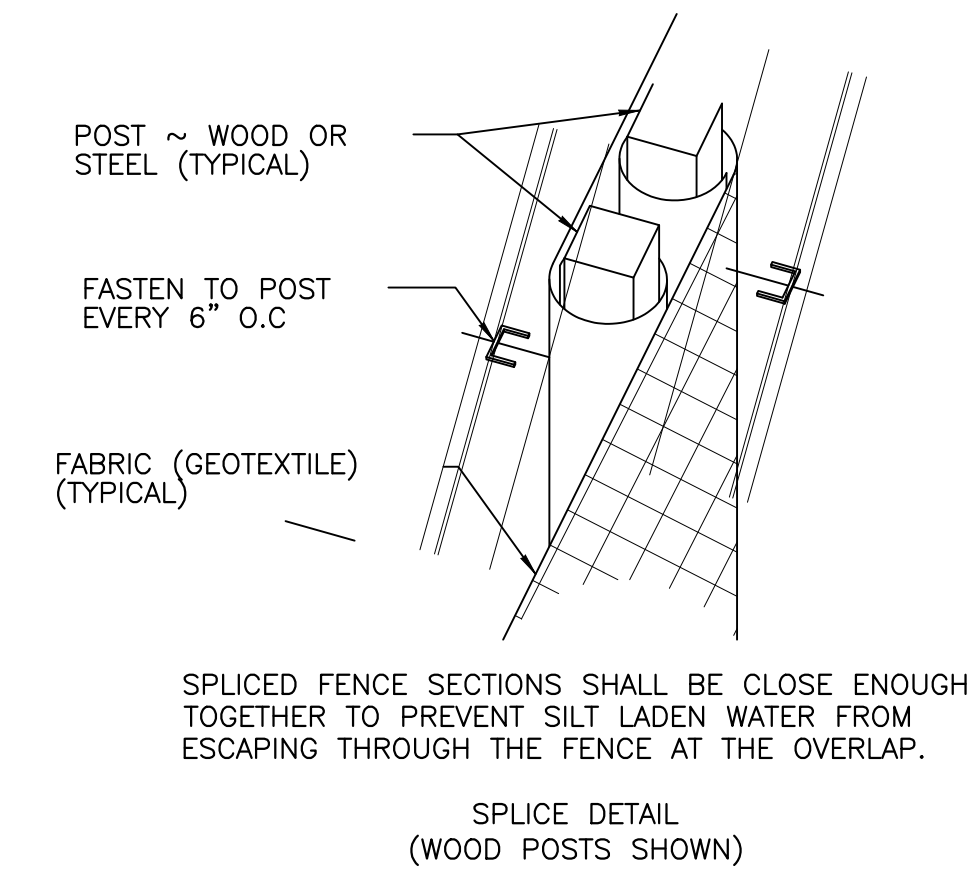
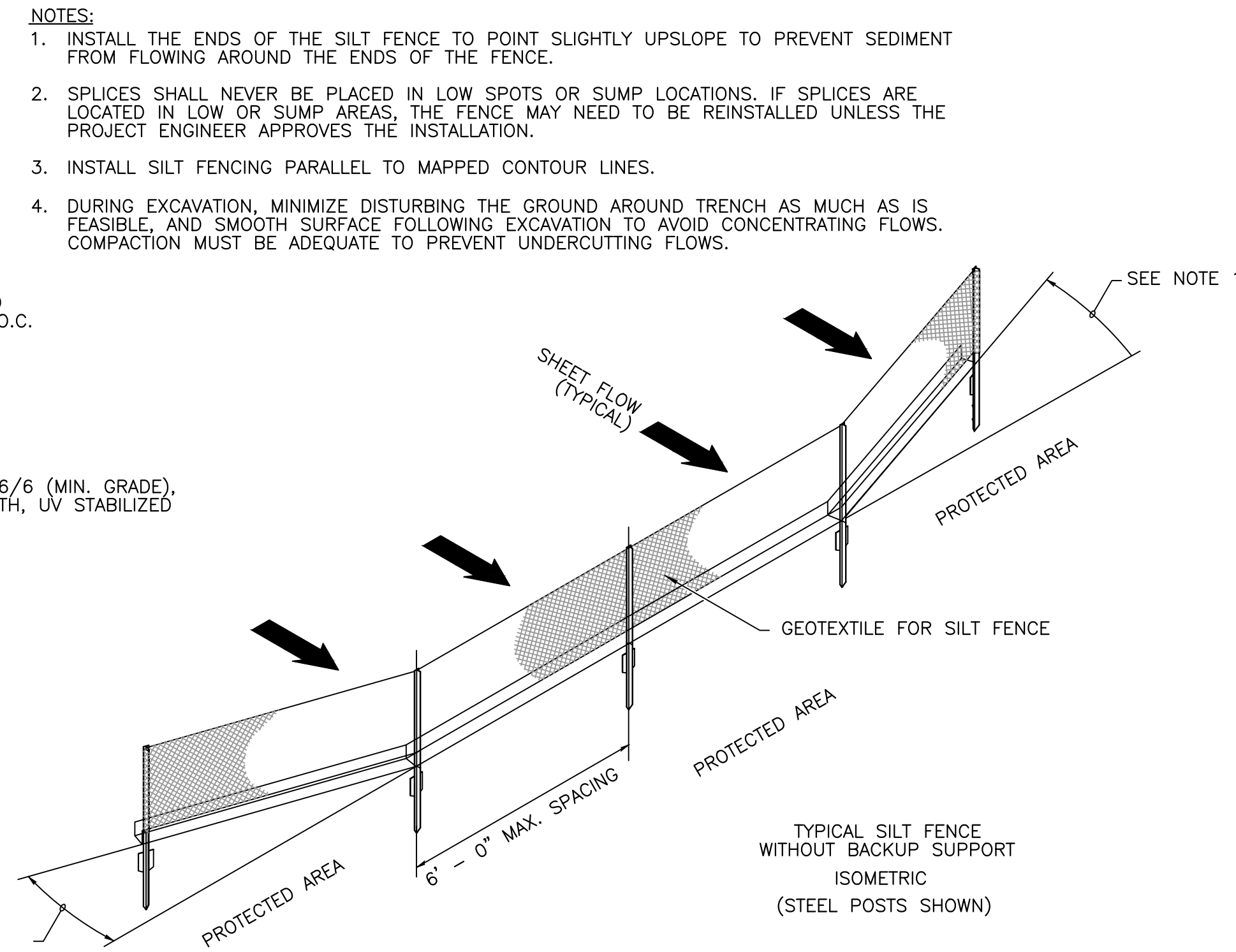
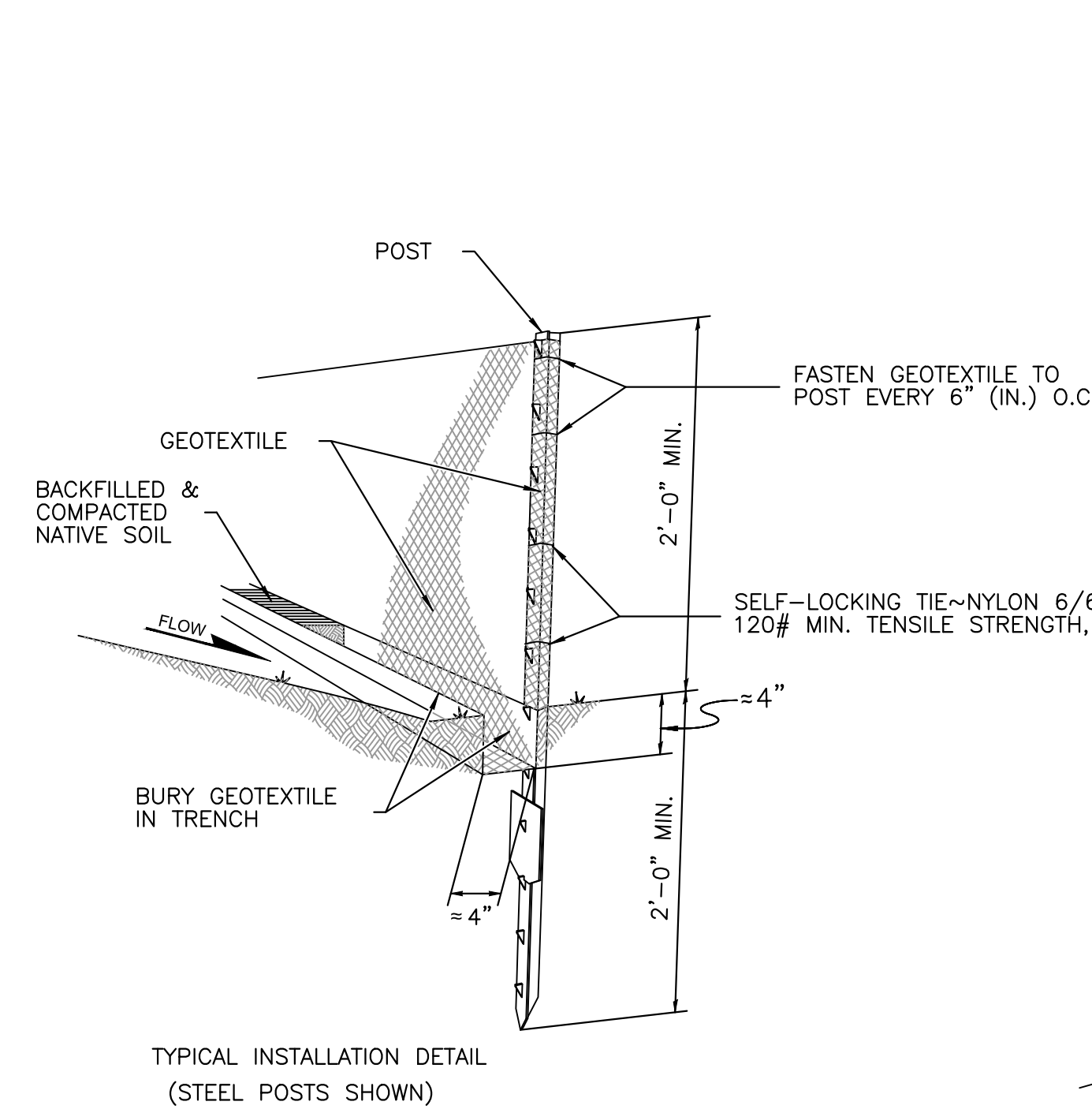
**STABILIZED CONSTRUCTION ENTRANCE DETAIL 1**  
NOT TO SCALE



**INLET PROTECTION DETAIL 2**  
NOT TO SCALE



- NOTES:**
1. SIZE THE BELOW INLET GRATE DEVICE (BIGD) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
  2. THE BIGD SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
  3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BIGD WITHOUT SPILLING THE COLLECTED MATERIAL.



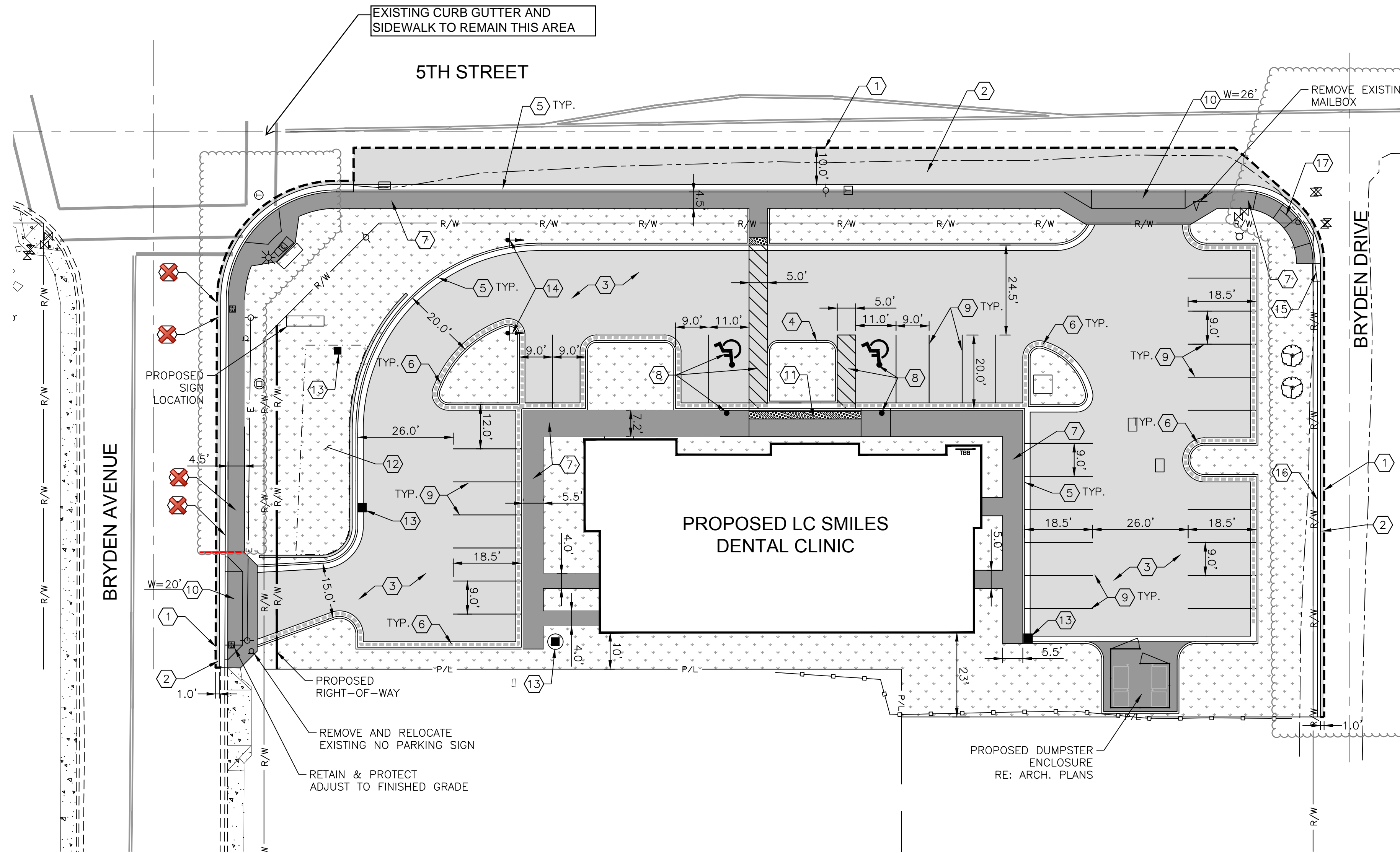
- NOTES:**
1. INSTALL THE ENDS OF THE SILT FENCE TO POINT SLIGHTLY UPSLOPE TO PREVENT SEDIMENT FROM FLOWING AROUND THE ENDS OF THE FENCE.
  2. SPLICES SHALL NEVER BE PLACED IN LOW SPOTS OR SUMP LOCATIONS. IF SPLICES ARE LOCATED IN LOW OR SUMP AREAS, THE FENCE MAY NEED TO BE REINSTALLED UNLESS THE PROJECT ENGINEER APPROVES THE INSTALLATION.
  3. INSTALL SILT FENCING PARALLEL TO MAPPED CONTOUR LINES.
  4. DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.

**SILT FENCE DETAIL 3**  
NOT TO SCALE

REVISION	DATE	REV

DRAWN BY: BRL  
DESIGNED BY: BRL  
QUALITY CHECK: PAO  
DATE: 08/22/18  
JOB NO. L18-032  
FIELDBOOK



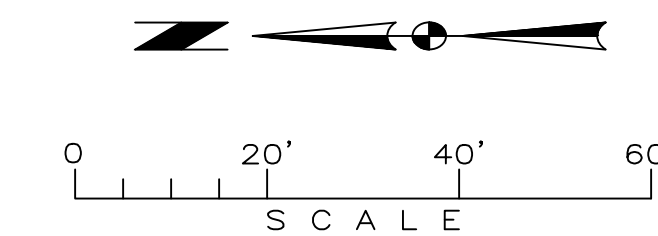


### CONSTRUCTION NOTES

- 1 SAWCUT EXISTING ACP. CONTRACTOR TO PROVIDE CLEAN EDGE AT SAWCUT LINE.
- 2 ASPHALT PAVEMENT PATCHBACK AND PAVEMENT REPAIR. SEE DETAIL 3, SHEET C4.2.
- 3 ASPHALT PAVEMENT. 2" HMA ON 6" CSTC. SEE DETAIL 4, SHEET C4.2.
- 4 CEMENT CONCRETE TRAFFIC CURB, TYPE A. SEE DETAIL 5, SHEET C4.2.
- 5 HIGH BACK CURB AND GUTTER. SEE DETAIL 6, SHEET C4.2.
- 6 HIGH BACK SPILL CURB AND GUTTER.
- 7 CONCRETE SIDEWALK. WIDTH PER PLAN. SEE DETAIL 1, SHEET C4.2.
- 8 ADA PARKING AND SIGNAGE. SEE DETAILS 1 AND 2, SHEET C4.1
- 9 SOLID 4" WIDE PAINTED PARKING STALL LINE. COLOR PER CITY OF LEWISTON STANDARDS.
- 10 CONCRETE DRIVEWAY APPROACH WITH JOGGED SIDEWALK PER CITY OF LEWISTON STD DWG 2-18.
- 11 PARALLEL PEDESTRIAN RAMP. SEE DETAIL 4, SHEET C4.1.
- 12 STORM WATER DETENTION POND. SEE SHEET C6.0.
- 13 STORM WATER STRUCTURE. SEE SHEET C6.0.
- 14 DO NOT ENTER / WRONG WAY SIGN (MUTCD R5-1 & R5-1a).
- 15 5 FOOT TRANSITION FROM HIGH BACK CURB AND GUTTER TO ROLLED CURB AND GUTTER.
- 16 ROLLED CURB AND GUTTER PER CITY OF LEWISTON STD DWG 2-7.
- 17 SIDEWALK RAMP TYPE 2 PER CITY OF LEWISTON STD DWG 2-12.

DESIGN NOTE:  
FRONTAGE IMPROVEMENTS ALONG 5TH STREET AND BRYDEN AVENUE WILL BE REFINED AND REVISED UPON COMPLETION OF THE INTERSECTION DESIGN FOR THE CITY OF LEWISTON.

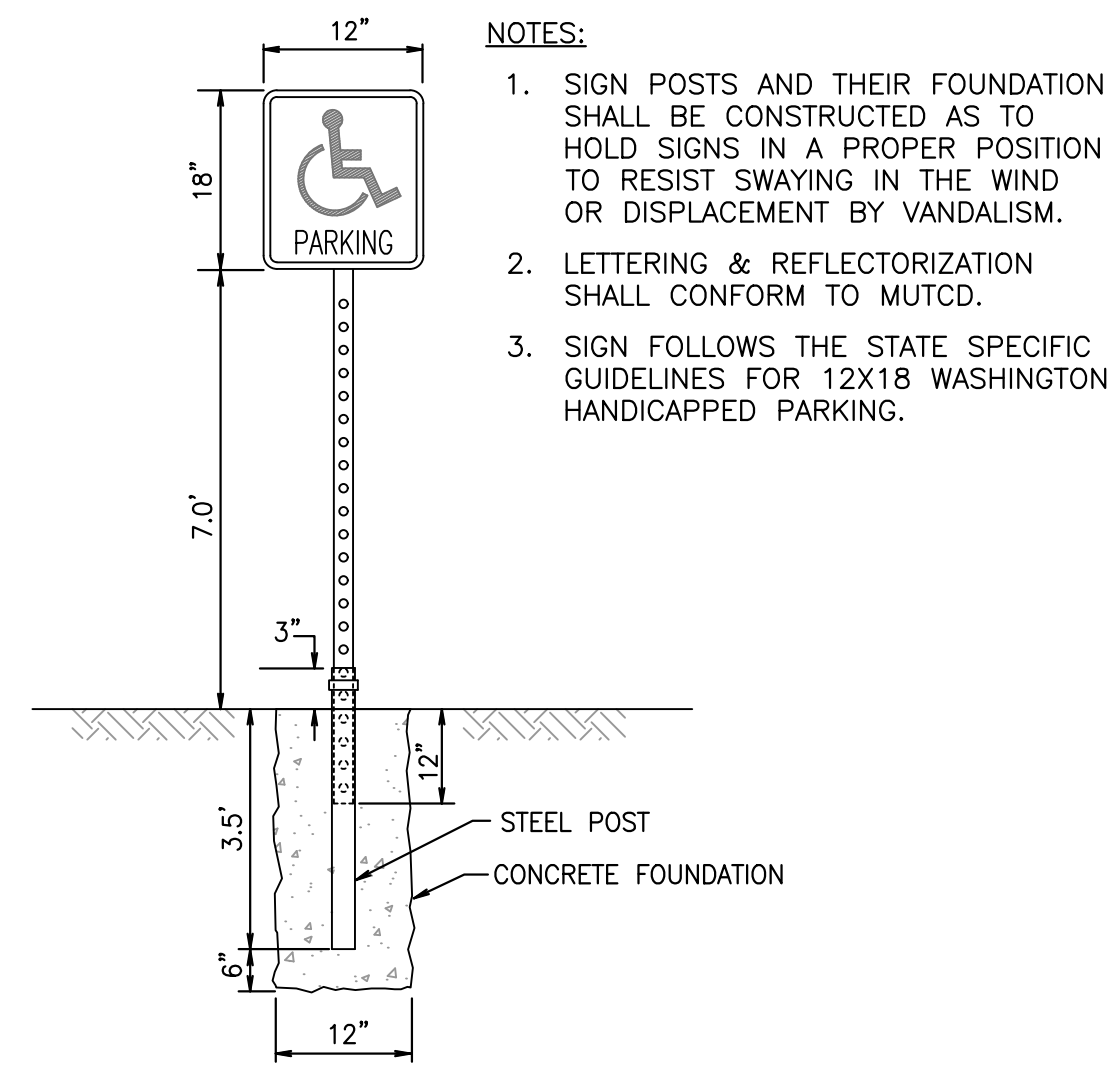
NUMBER OF PARKING STALLS			
	STANDARD STALLS	ADA STALLS	TOTAL STALLS
PROPOSED	32	2	34



### UTILITY LOCATION

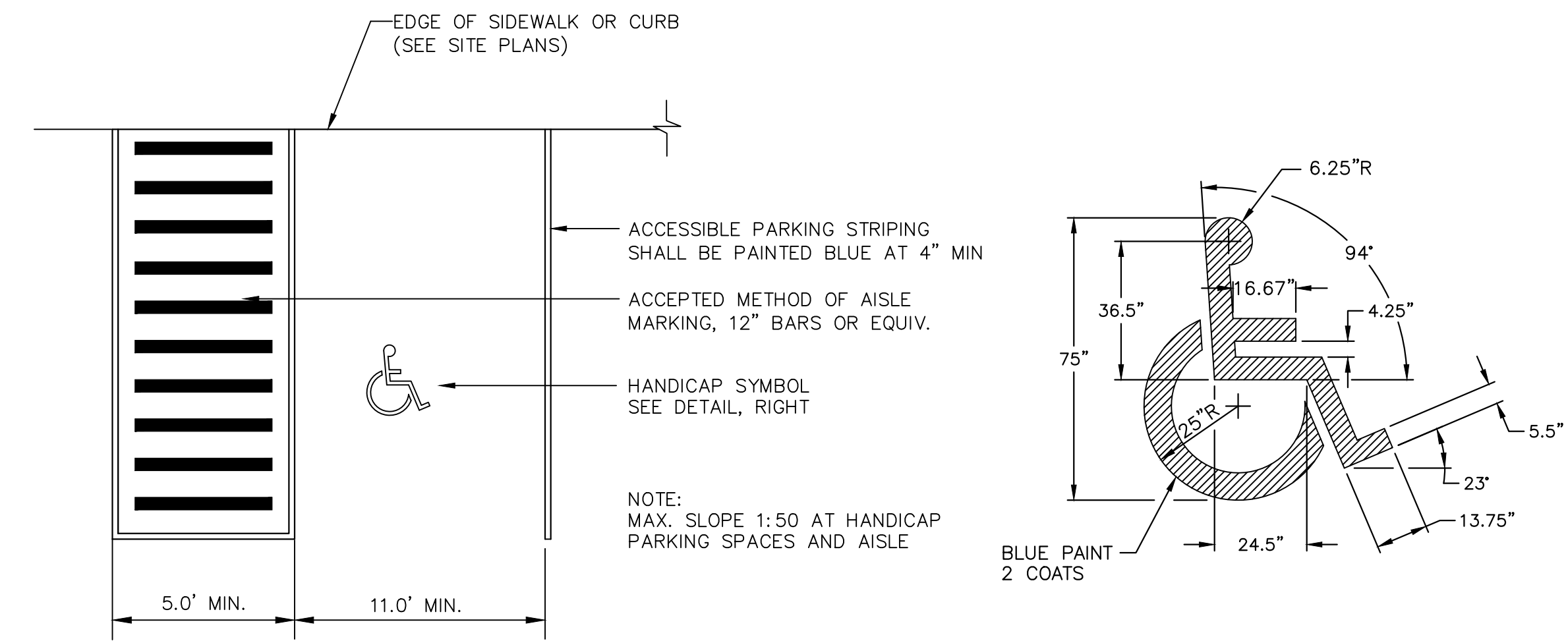
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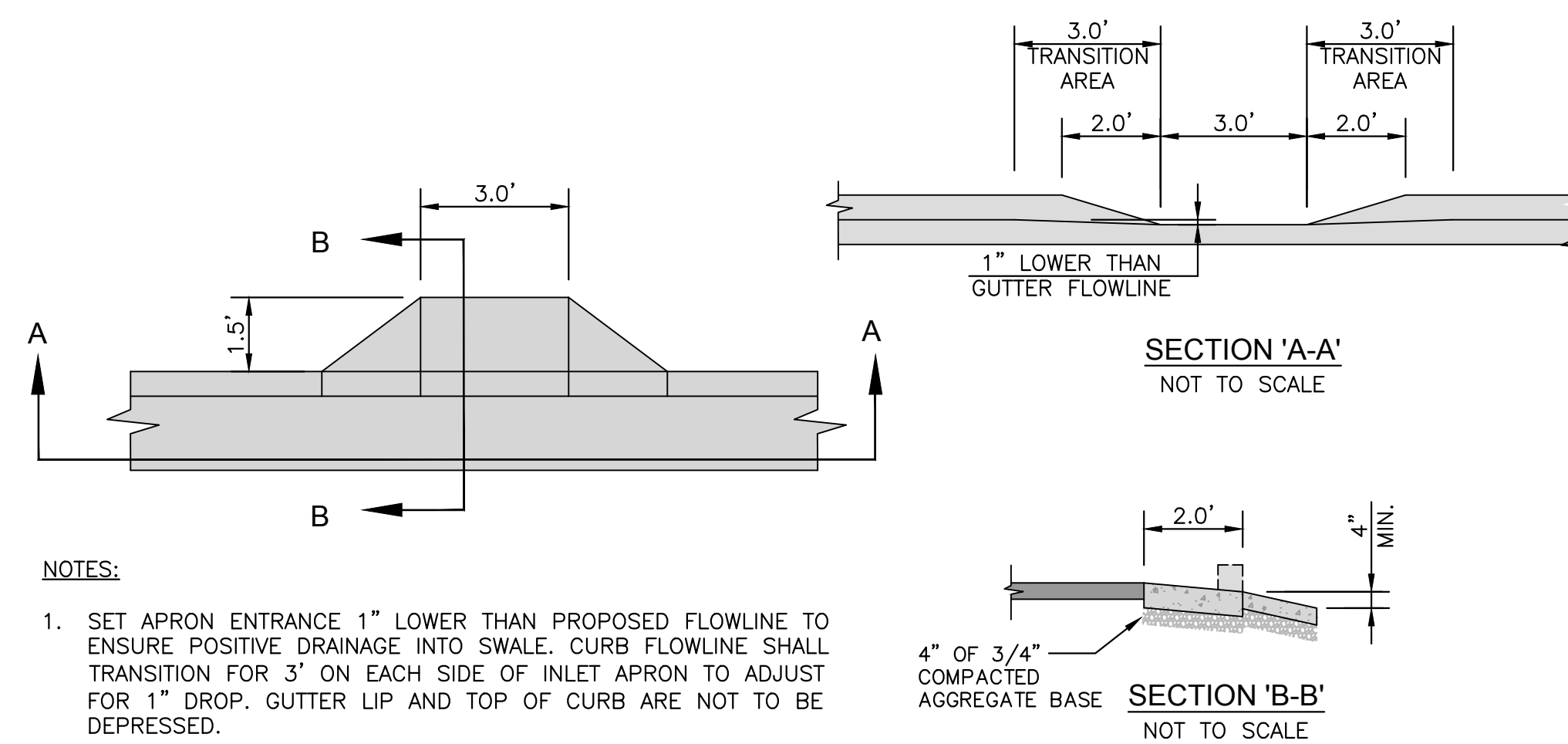


- NOTES:**
1. SIGN POSTS AND THEIR FOUNDATION SHALL BE CONSTRUCTED AS TO HOLD SIGNS IN A PROPER POSITION TO RESIST SWAYING IN THE WIND OR DISPLACEMENT BY VANDALISM.
  2. LETTERING & REFLECTORIZATION SHALL CONFORM TO MUTCD.
  3. SIGN FOLLOWS THE STATE SPECIFIC GUIDELINES FOR 12X18 WASHINGTON HANDICAPPED PARKING.

**HANDICAP PARKING SIGN DETAIL** (1)  
NOT TO SCALE

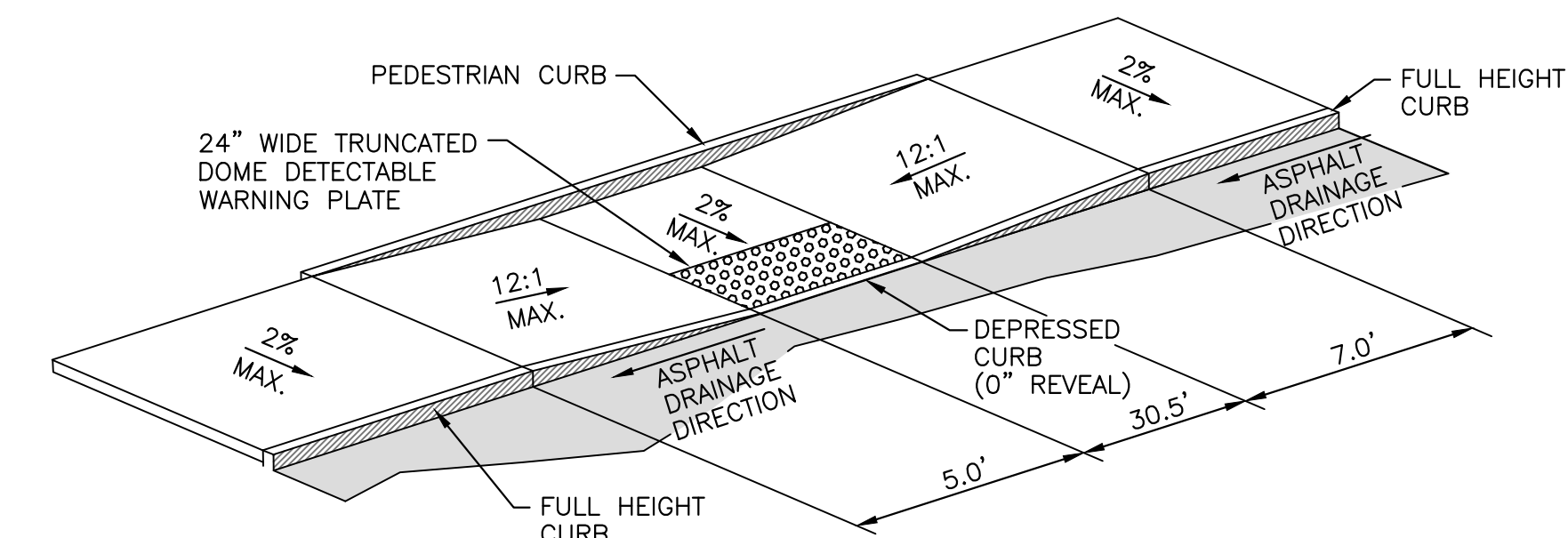


**HANDICAP PARKING STALL PAVEMENT MARKING** (2)  
NOT TO SCALE



- NOTES:**
1. SET APRON ENTRANCE 1" LOWER THAN PROPOSED FLOWLINE TO ENSURE POSITIVE DRAINAGE INTO SWALE. CURB FLOWLINE SHALL TRANSITION FOR 3' ON EACH SIDE OF INLET APRON TO ADJUST FOR 1" DROP. GUTTER LIP AND TOP OF CURB ARE NOT TO BE DEPRESSED.
  2. APRON TO SLOPE TO BOTTOM OF SWALE.

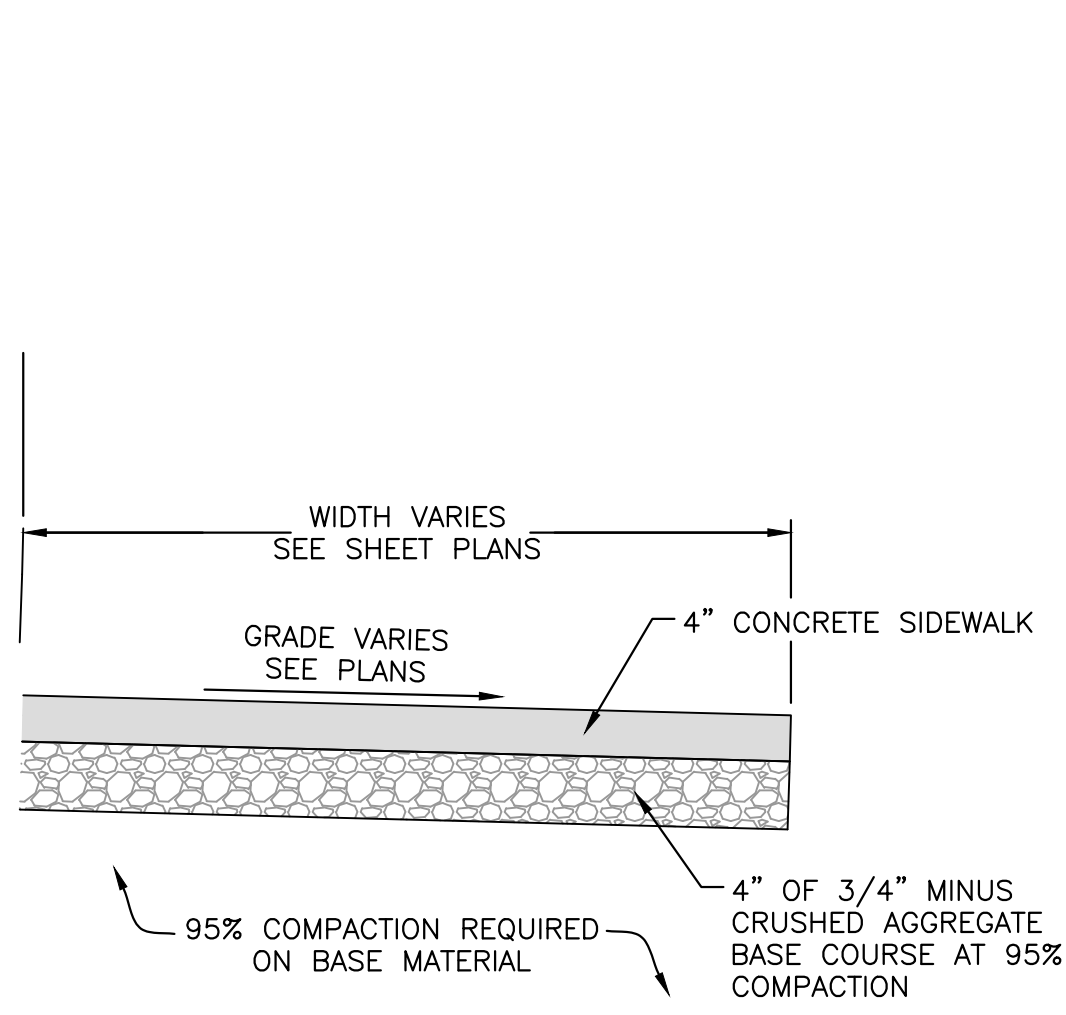
**CURB CUT WITH INLET APRON DETAIL** (3)  
NOT TO SCALE



**PEDESTRIAN RAMP DETAIL** (4)  
NOT TO SCALE

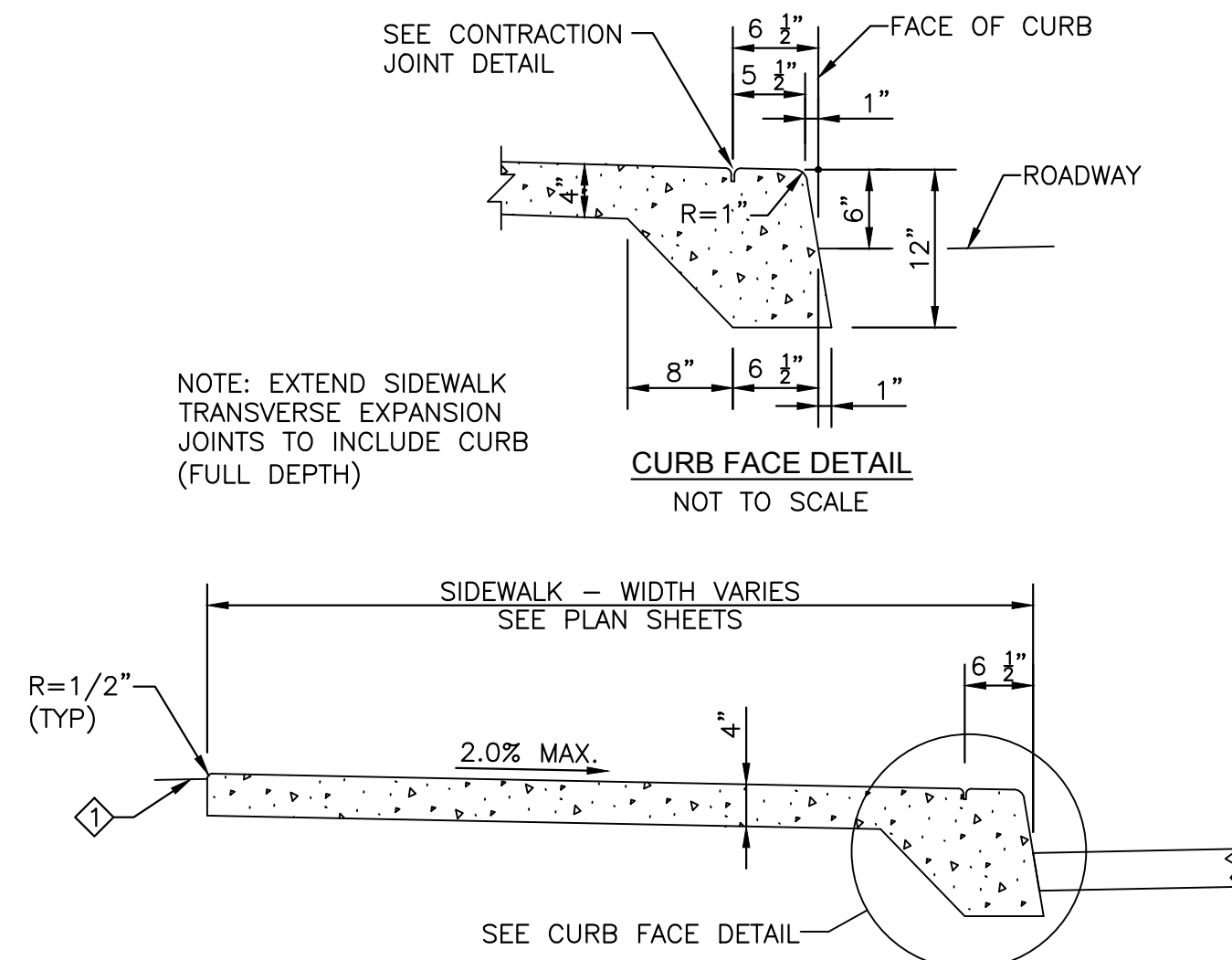
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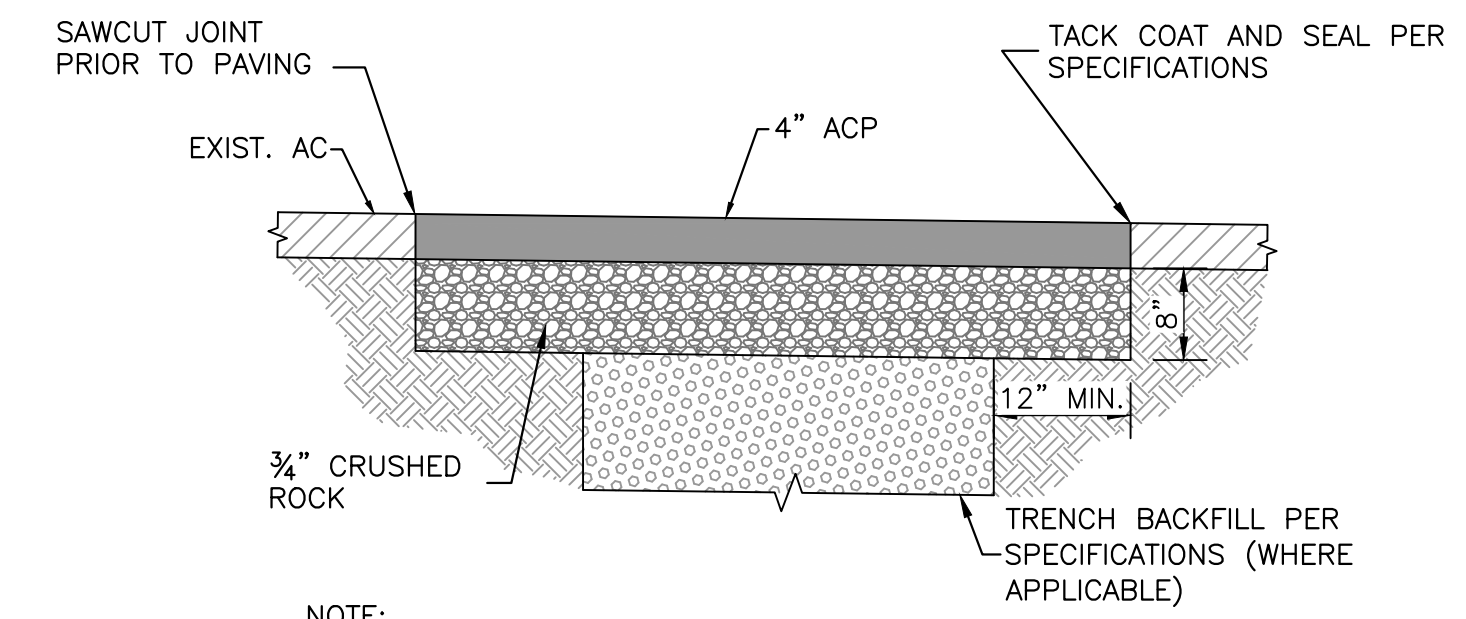
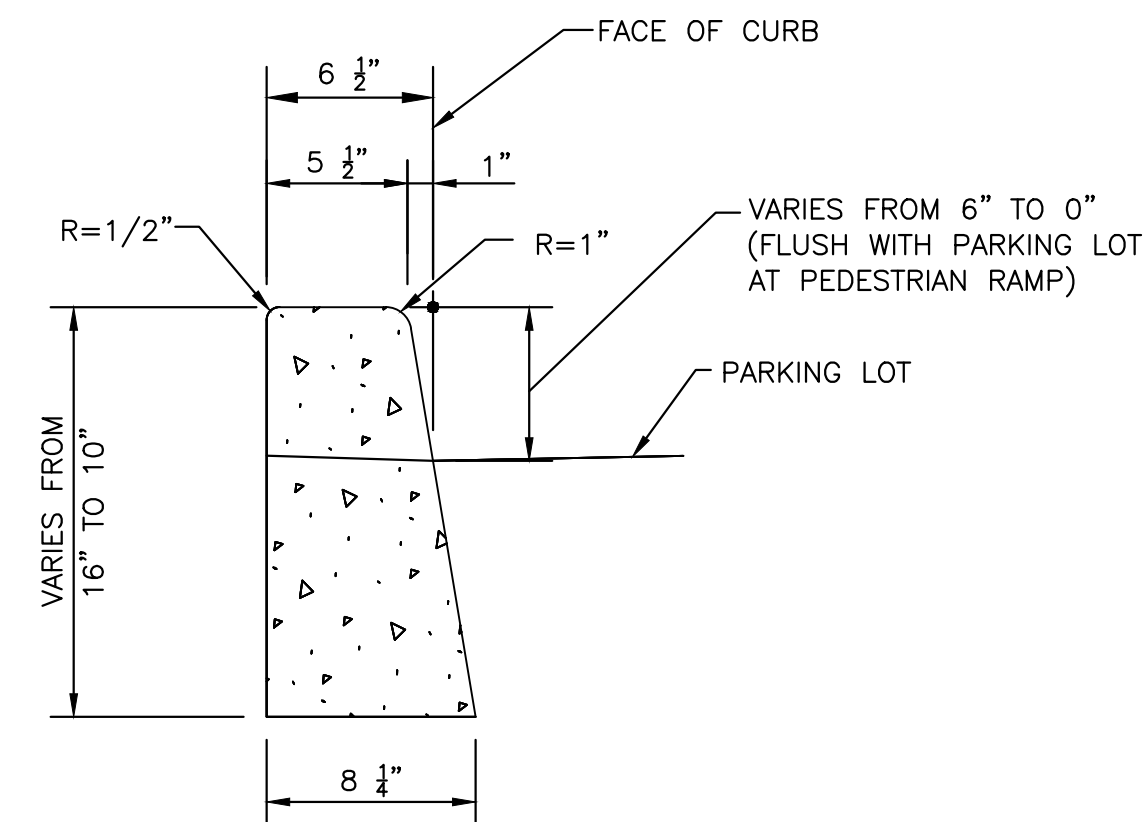
STANDARD SIDEWALK

CONCRETE SIDEWALK DETAIL 1  
NOT TO SCALE

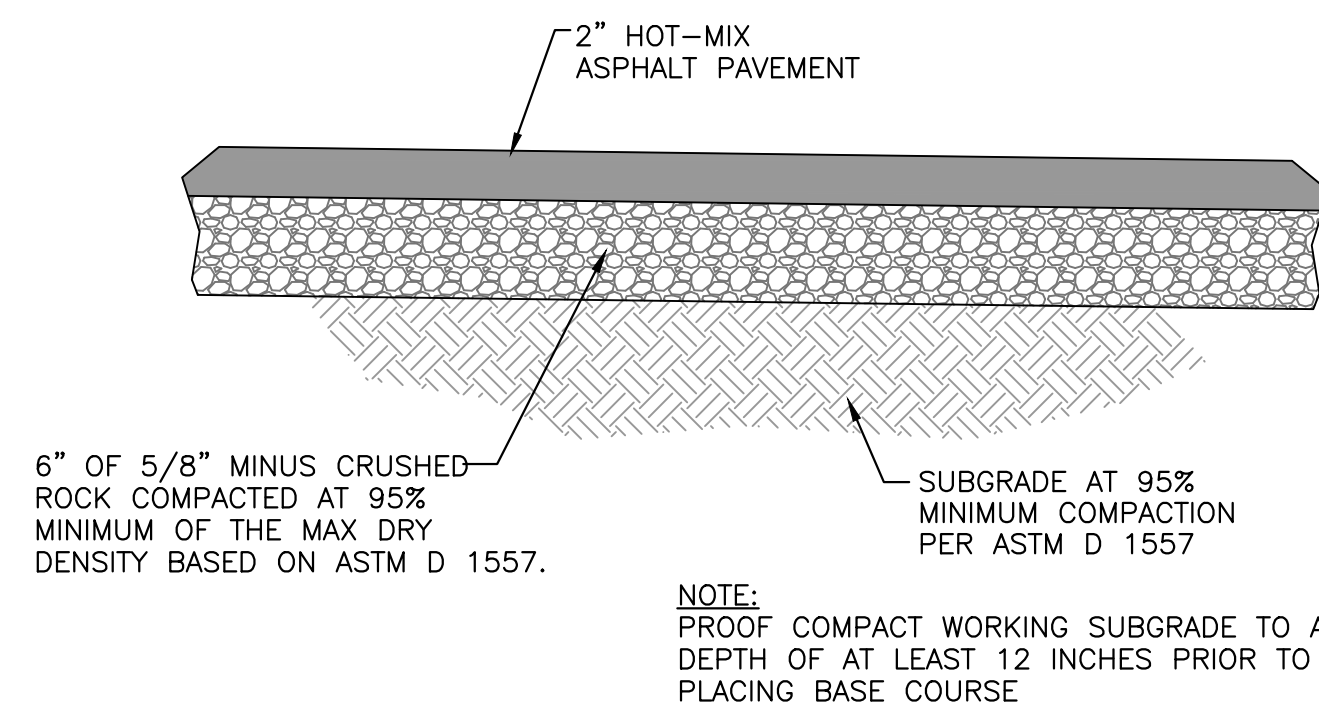


MONOLITHIC SIDEWALK

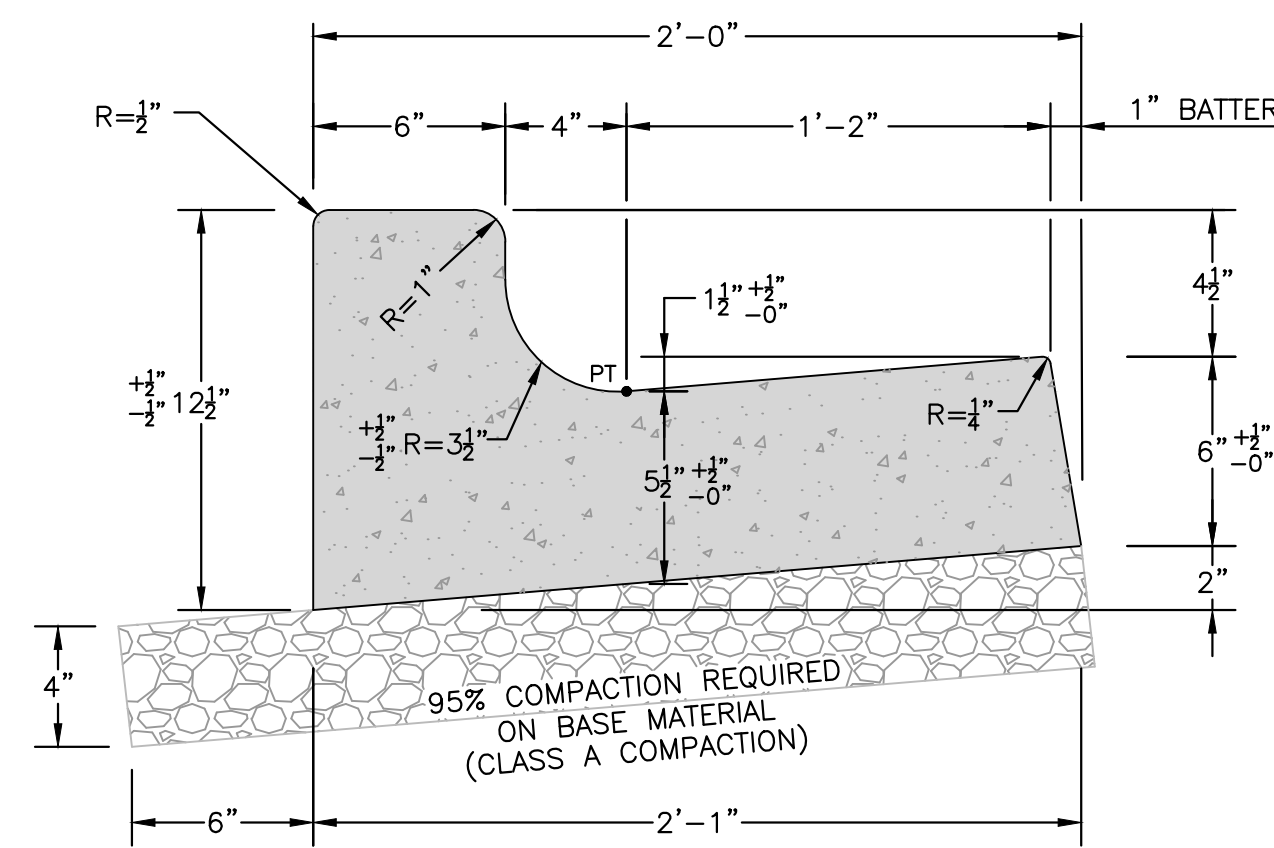
DEPRESSED CURB DETAIL 2  
NOT TO SCALE



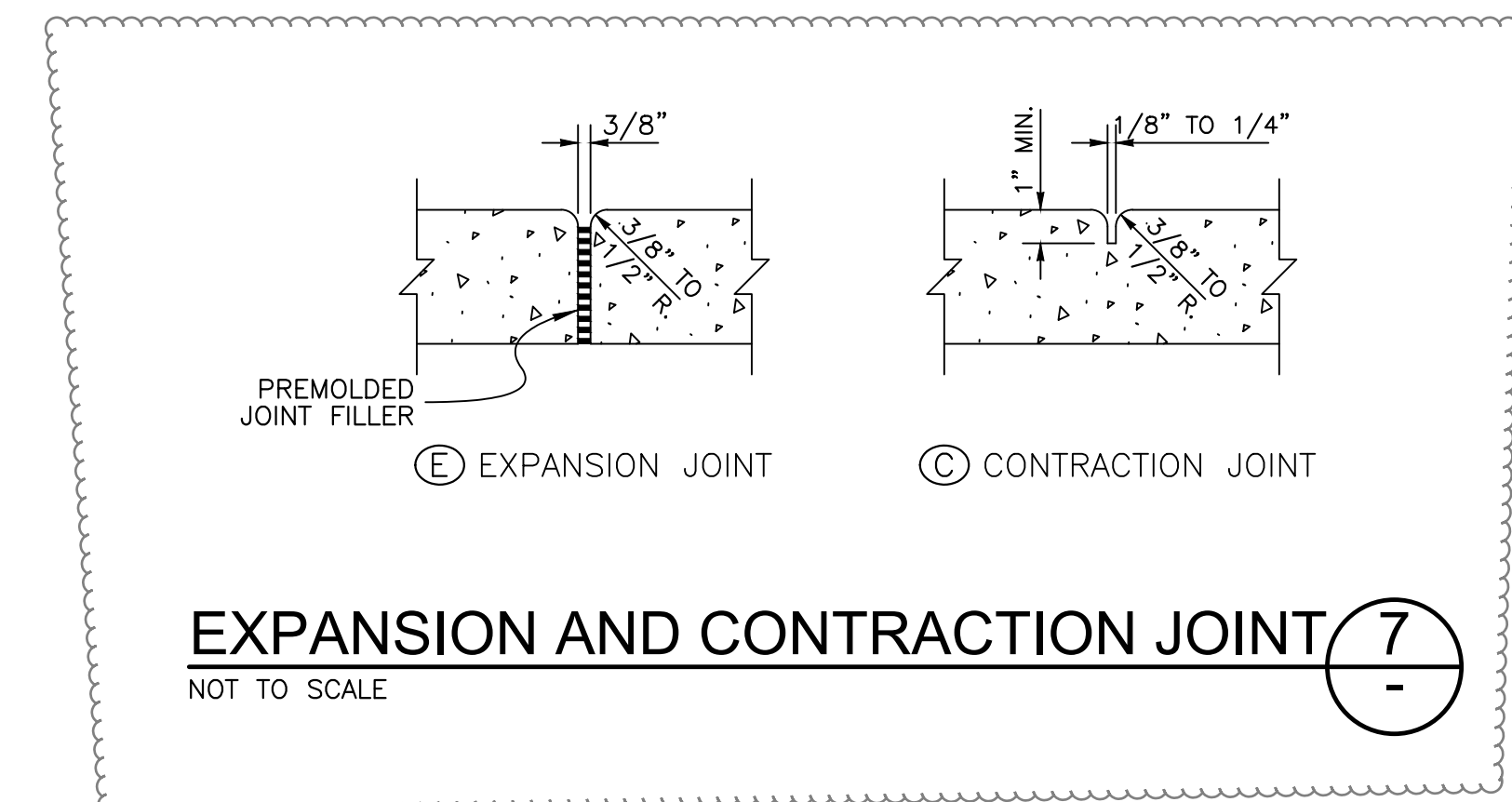
ASPHALT PAVEMENT  
PATCHBACK & STREET REPAIR DETAIL 3  
NOT TO SCALE



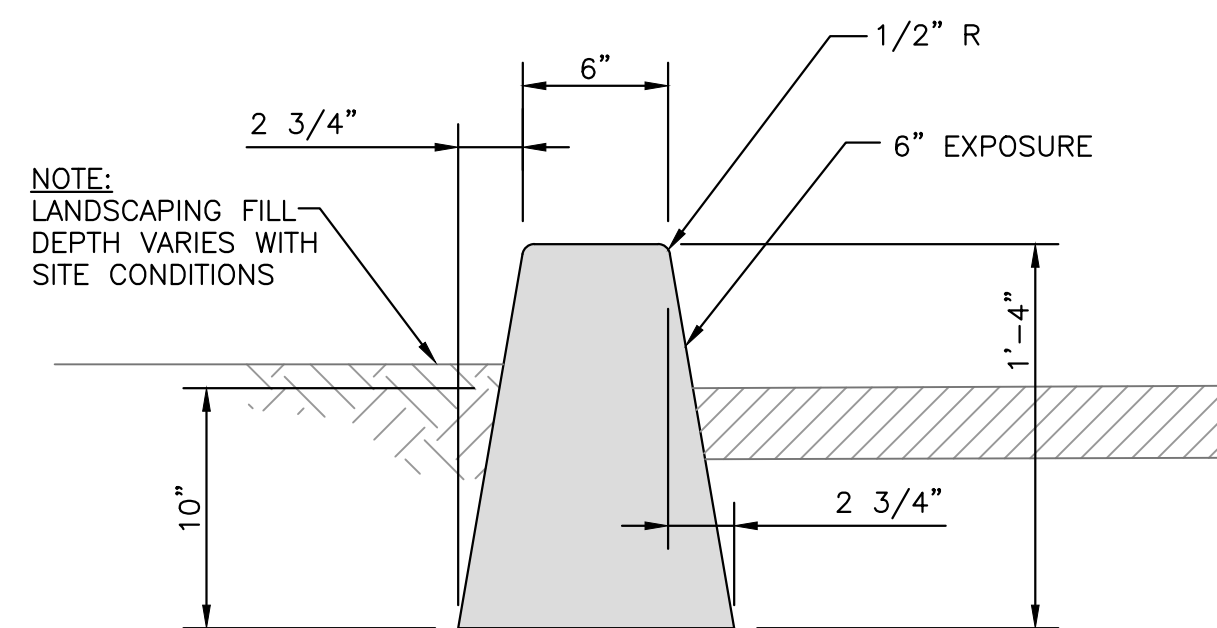
ASPHALT PAVEMENT SECTION 4  
NOT TO SCALE



CATCH CURB



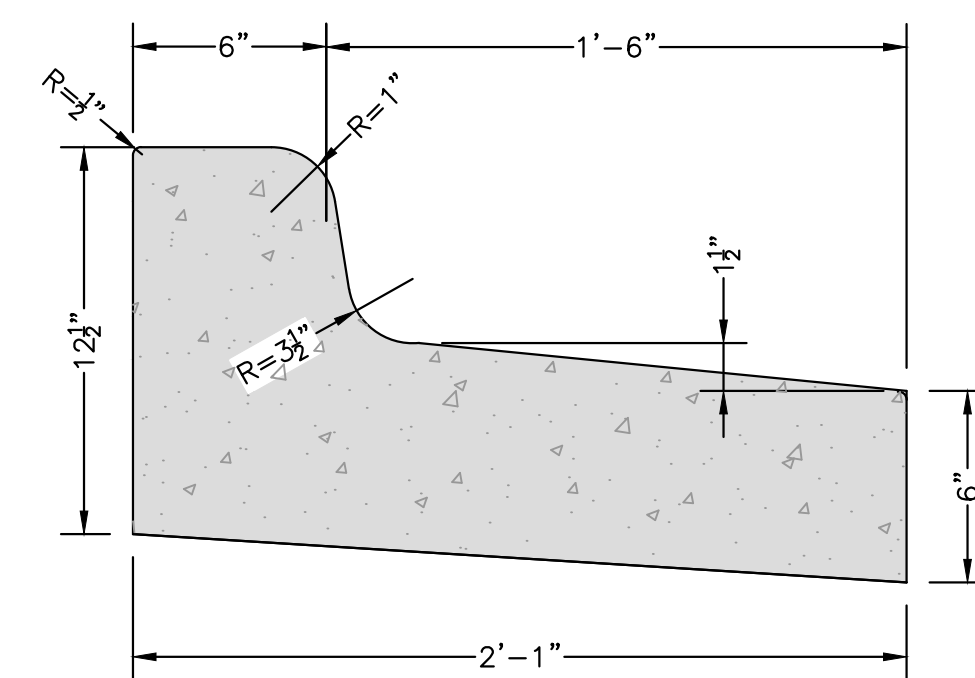
EXPANSION AND CONTRACTION JOINT 7  
NOT TO SCALE



CURB NOTES:

1. THE TOLERANCE FOR FINISHED CURB - MAX. VARIATION OF SURFACE FLATNESS: 1/4 INCH IN 10 FEET MAX. VARIATION FROM TRUE POSITION (DESIGN GRADE): 1/2 INCH
2. BASE MATERIAL SHALL BE 4" OF 3/4" INCH MINUS CRUSHED AGGREGATE VASE MATERIAL COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR AS PER AASHTO T180. ALL FILL OR BACKFILL AREAS SHALL BE PLACED IN 6" TO 8" MAXIMUM LIFTS.
3. CONCRETE SHALL BE 3,000 PSI MINIMUM AT 28 DAYS, MAXIMUM WATER/CEMENT RATIO SHALL BE 0.5 (LB/LB), 5" MAX. SLUMP, AIR CONTENT (%) 6.5 ±1.5.
4. DUMMY JOINTS AT 10 FOOT INTERVALS AND AT CURB RADII, 3/4" TO 1" DIFFERENTIAL ELEVATION BETWEEN ADJACENT SECTIONS SHALL NOT EXCEED 1/4".

STRAIGHT CURB DETAIL 5  
NOT TO SCALE



NOTE: BASE MATERIAL REQUIREMENTS SAME AS CATCH CURB.

SPILL CURB

HIGH BACK CURB & GUTTER DETAIL 6  
NOT TO SCALE

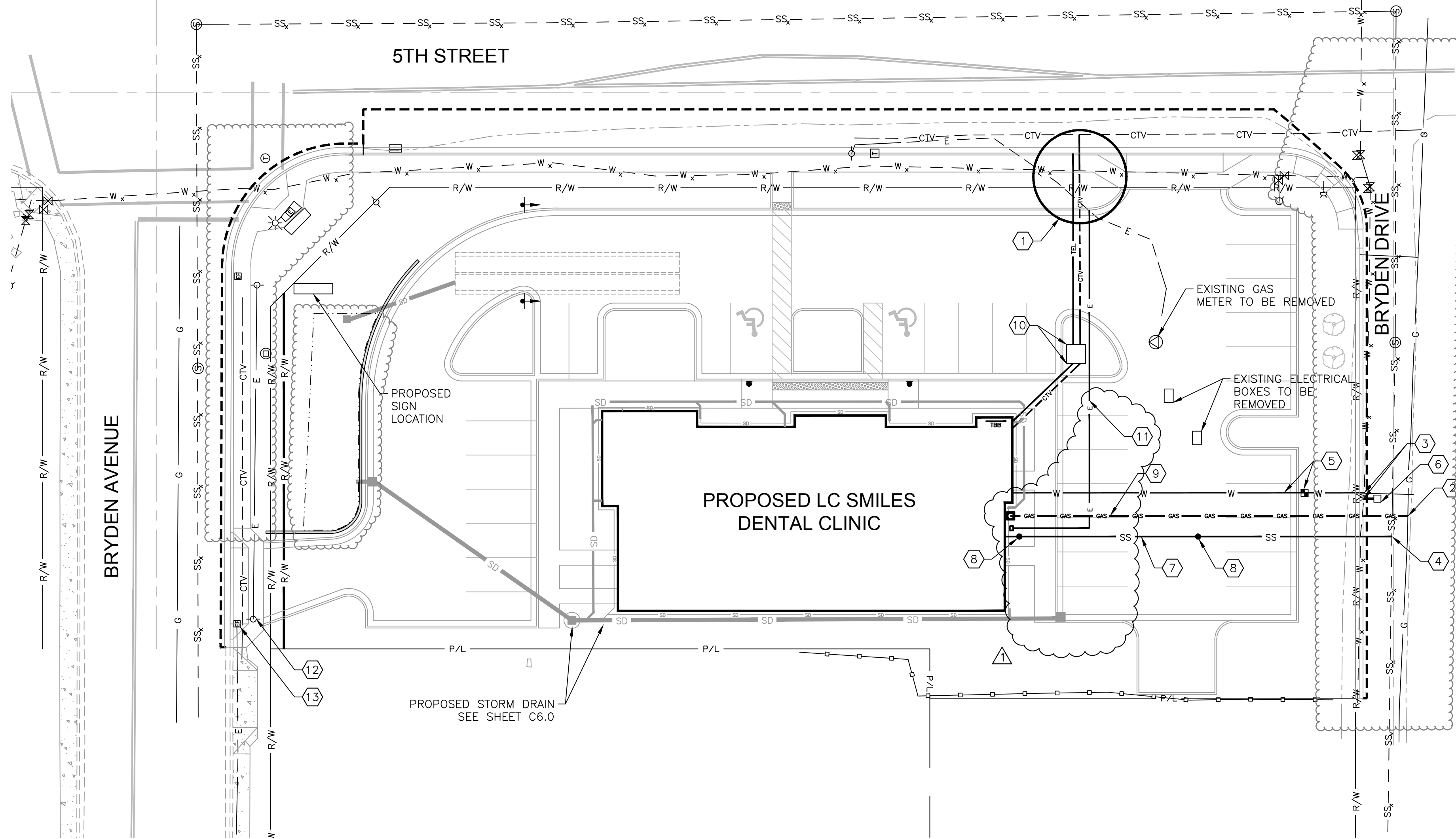
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**TD&H**  
Engineering  
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210 MAIN ST. • LEWISTON, IDAHO 83501

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QUALITY CHECK: PAO  
DATE: 08/16/18  
JOB NO. L18-032  
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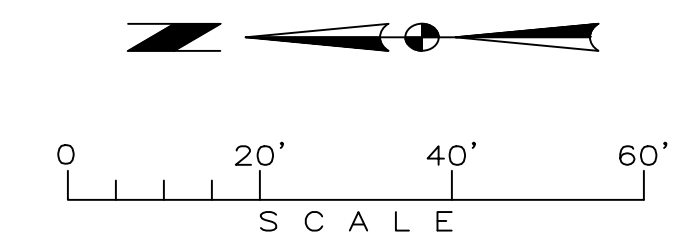
BARTSCHI DENTAL OFFICE  
LEWISTON, IDAHO 83501  
SITE DETAILS





### CONSTRUCTION NOTES

- 1 APPROXIMATE LOCATION FOR CONNECTION OF ELECTRICAL, TELEPHONE AND CABLE UTILITIES. CONTRACTOR SHALL COORDINATE CONNECTIONS WITH APPROPRIATE UTILITY AGENCY PRIOR TO CONSTRUCTION.
- 2 CONNECT TO EXISTING GAS MAIN. CONTRACTOR SHALL COORDINATE CONNECTIONS WITH APPROPRIATE UTILITY AGENCY PRIOR TO CONSTRUCTION.
- 3 CONNECT TO EXISTING WATER MAIN. CONTRACTOR SHALL COORDINATE CONNECTIONS WITH LEWISTON ORCHARDS IRRIGATION DISTRICT PRIOR TO CONSTRUCTION.
- 4 CONNECT TO EXISTING SEWER MAIN. SEE DETAIL 2, SHEET C5.1. CONTRACTOR SHALL COORDINATE CONNECTIONS WITH CITY OF LEWISTON PRIOR TO CONSTRUCTION.
- 5 1-1/2" WATER SERVICE PIPE WITH 1" METER PER LEWISTON ORCHARDS IRRIGATION DISTRICT STANDARD SPECIFICATIONS. SEE DETAIL 1, SHEET C5.1.
- 6 PROPOSED IRRIGATION BOX.
- 7 4" PVC SANITARY SEWER SERVICE PIPE. SLOPE AT 0.0200 FT/FT MINIMUM. LENGTH = 102 L.F.±.
- 8 4" SANITARY SEWER CLEANOUT. SEE DETAIL 4, SHEET C5.1.
- 9 1" GAS SERVICE PIPE TO METER. COORDINATE WITH MECHANICAL PLANS.
- 10 PROPOSED UTILITY BOX, TELEPHONE AND CABLE SERVICE CONDUIT. COORDINATE WITH ELECTRICAL PLANS.
- 11 **PROPOSED PAD MOUNTED TRANSFORMER AND ELECTRICAL SERVICE CONDUIT. COORDINATE WITH ELECTRICAL PLANS.**
- 12 EXISTING UTILITY POLE TO BE RELOCATED. CONTRACTOR SHALL COORDINATE RELOCATION WITH APPROPRIATE UTILITY AGENCY PRIOR TO CONSTRUCTION.
- 13 ADJUST EXISTING ELECTRICAL BOX LID TO FINISHED GRADE.



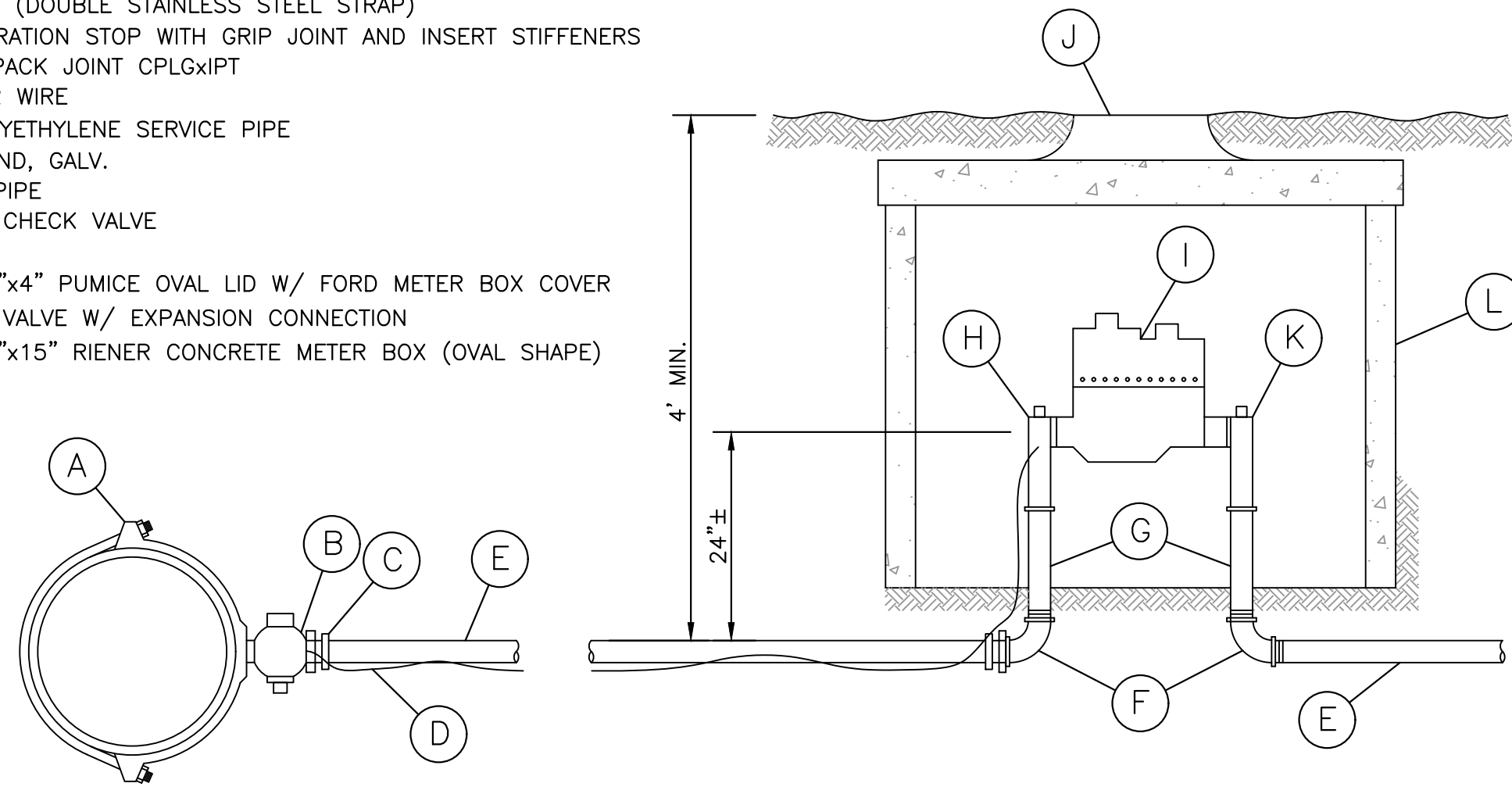
### UTILITY LOCATION

THE LOCATIONS OF UNDERGROUND UTILITIES REPRESENTED ON THIS DRAWING HAVE BEEN DETERMINED FROM A FIELD SURVEY AND FROM RECORDS OBTAINED FROM THE VARIOUS UTILITY COMPANIES. THE NUMBER AND LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. FOR YOUR SAFETY, STATE LAW REQUIRES THAT YOU CALL THE LOCAL "ONE-CALL" UNDERGROUND UTILITY LOCATING CENTER AT LEAST TWO WORKING DAYS BEFORE BEGINNING ANY EXCAVATION: 1-800-342-1585

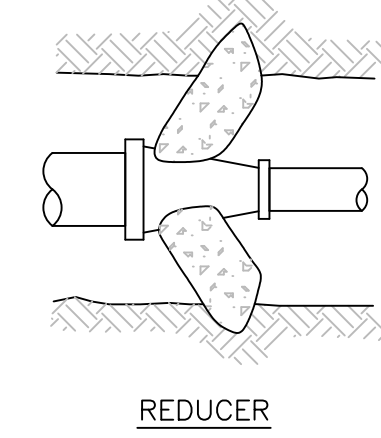
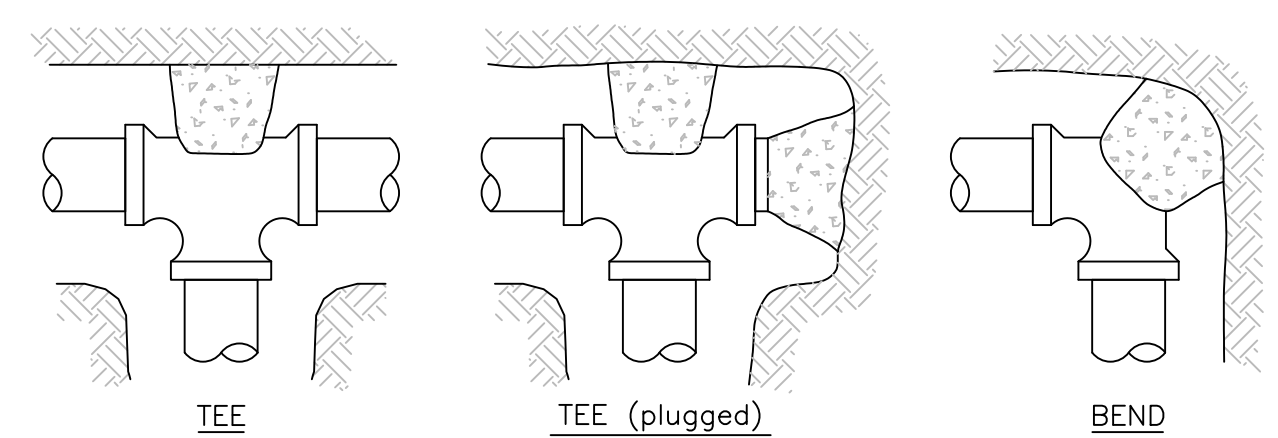
"CALL BEFORE YOU DIG"

**MATERIALS:**

- A. SADDLE (DOUBLE STAINLESS STEEL STRAP)
- B. CORPORATION STOP WITH GRIP JOINT AND INSERT STIFFENERS
- C. FORD PACK JOINT CPLGXPT
- D. TRACER WIRE
- E. 2" POLYETHYLENE SERVICE PIPE
- F. 90° BEND, GALV.
- G. GALV. PIPE
- H. ANGLE CHECK VALVE
- I. METER
- J. 45"x26"x4" PUMICE OVAL LID W/ FORD METER BOX COVER
- K. ANGLE VALVE W/ EXPANSION CONNECTION
- L. 45"x26"x15" RIENER CONCRETE METER BOX (OVAL SHAPE)

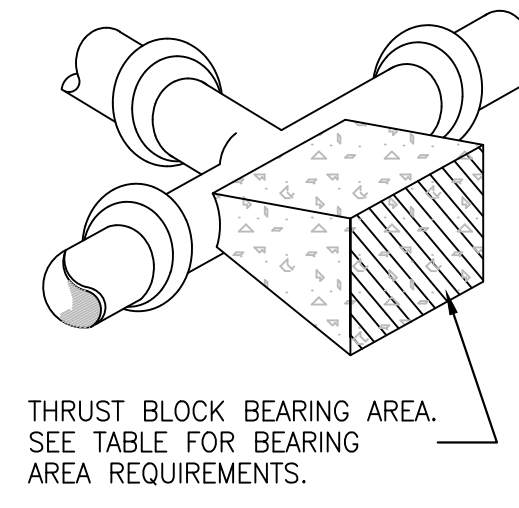


**WATER SERVICE DETAIL 1**  
NOT TO SCALE

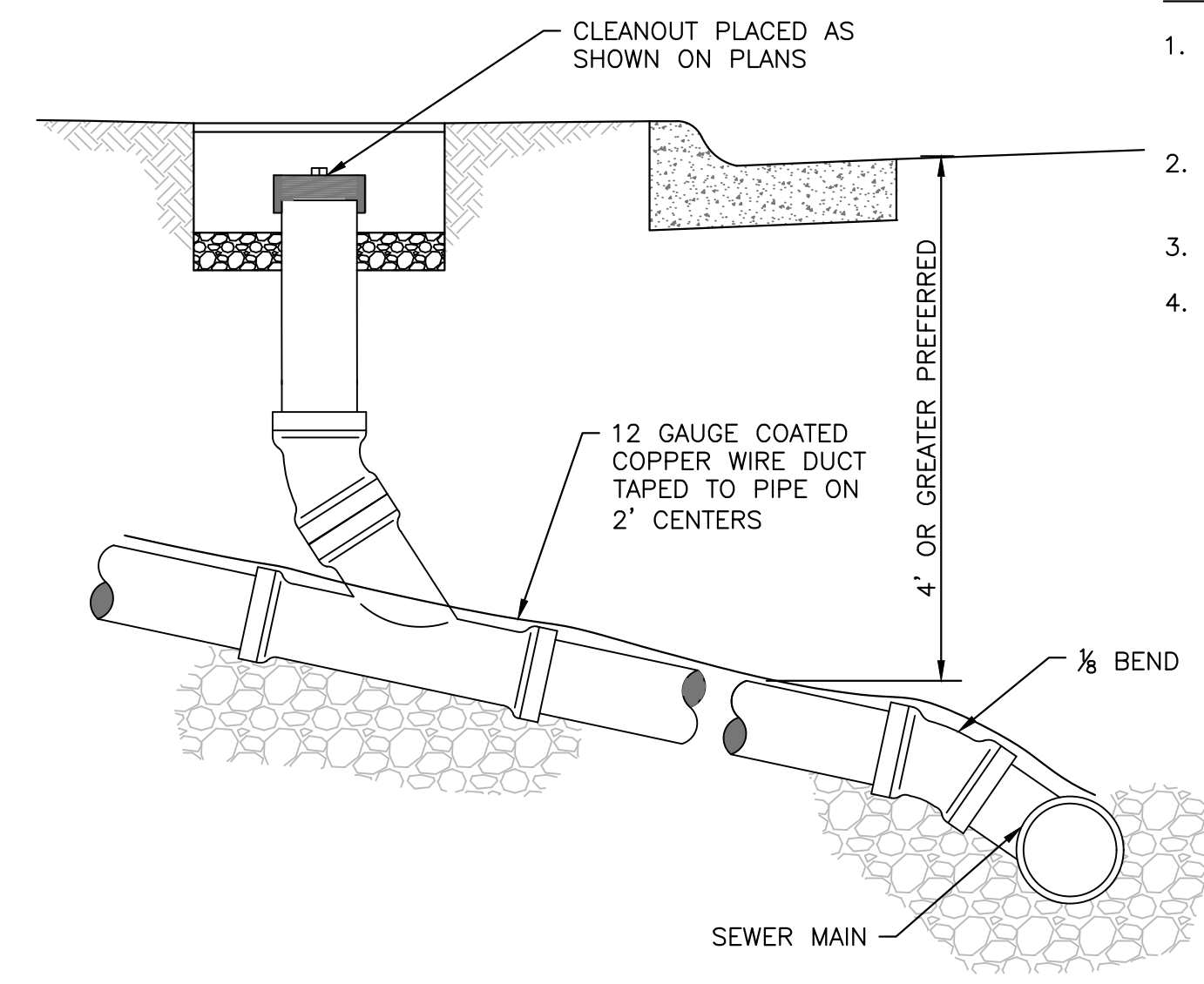


PIPE SIZES	TEES & PLUGS	90° BEND	45° BEND & WYES	REDUCERS & 22 1/2° BEND
4"	1.8	2.6	1.4	0.8
6"	3.8	5.2	2.9	1.5
8"	6.7	9.5	5.0	2.6
10"	10.8	15.3	8.3	4.2
12"	15.3	21.8	11.9	5.8
14"	20.8	28.8	16.2	8.3
16"	27.4	37.7	20.9	10.8
18"	34.7	47.7	26.5	13.6
20"	42.8	58.9	32.7	16.8
24"	61.7	84.8	47.1	24.2
30"	96.4	132.5	73.6	37.9

- NOTE :
- THIS TABLE IS BASED ON 150 P.S.I. MAIN PRESSURE; 2000 P.S.F. SOIL PRESSURE.
  - WRAP ALL FITTINGS WITH POLYETHYLENE.
  - USE 3000 P.S.I. CONCRETE.



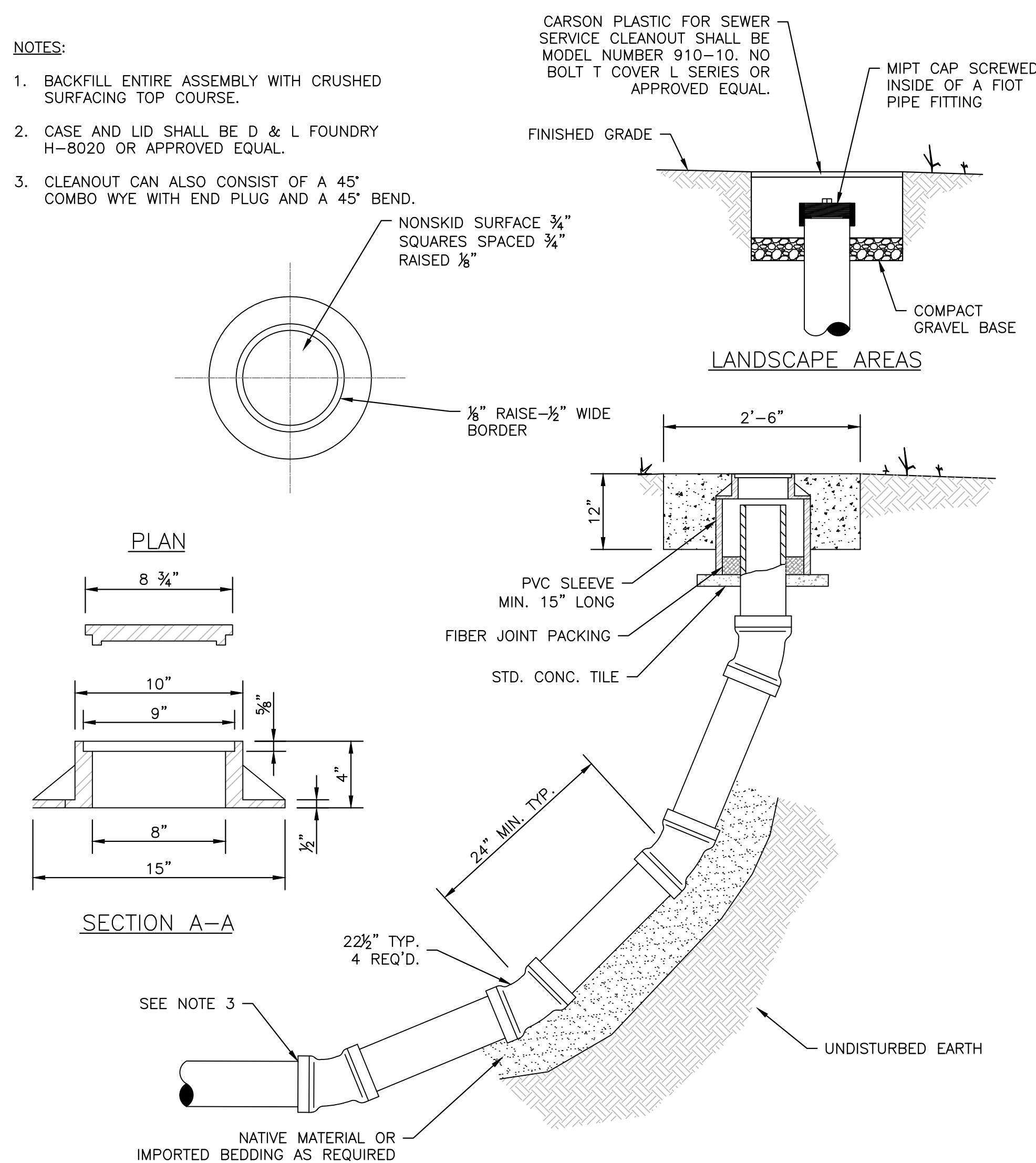
**THRUST BLOCK DETAIL 3**  
NOT TO SCALE



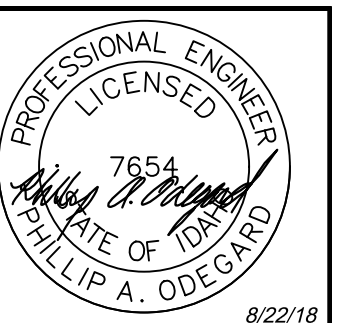
- NOTES:
- LATERALS CONNECTING TO EXISTING SEWER MAINS SHALL BE CONNECTED WITH "ROMAC CB", "INSERTA TEE", OR APPROVED EQUAL.
  - PROVIDE REQUIRED COMPACTION FOR ALL FITTINGS AND JOINTS.
  - MINIMUM SLOPE IS 2 PERCENT.
  - MAXIMUM DISTANCE BETWEEN LATERAL CLEANOUTS SHALL BE 100 FEET. THE MAXIMUM AGGREGATE CHANGE IN DIRECTION BETWEEN LATERAL CLEANOUTS SHALL BE 135 DEGREES. CONSTRUCT ADDITIONAL CLEANOUTS AS NECESSARY.

**SANITARY SEWER LATERAL 2**  
NOT TO SCALE

- NOTES:
- BACKFILL ENTIRE ASSEMBLY WITH CRUSHED SURFACING TOP COURSE.
  - CASE AND LID SHALL BE D & L FOUNDRY H-8020 OR APPROVED EQUAL.
  - CLEANOUT CAN ALSO CONSIST OF A 45° COMBO WYE WITH END PLUG AND A 45° BEND.

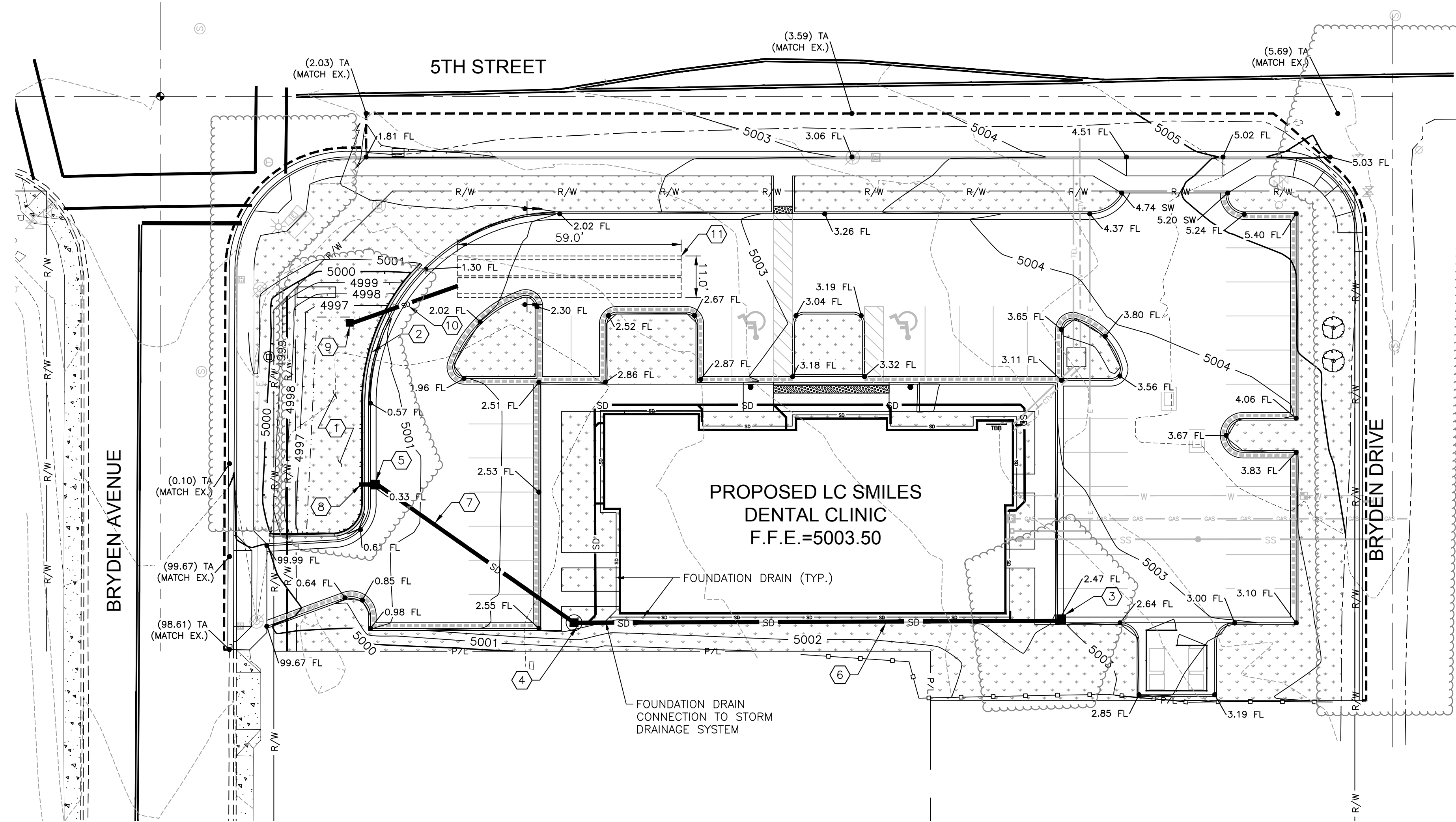


**SANITARY SEWER CLEANOUT 4**  
NOT TO SCALE



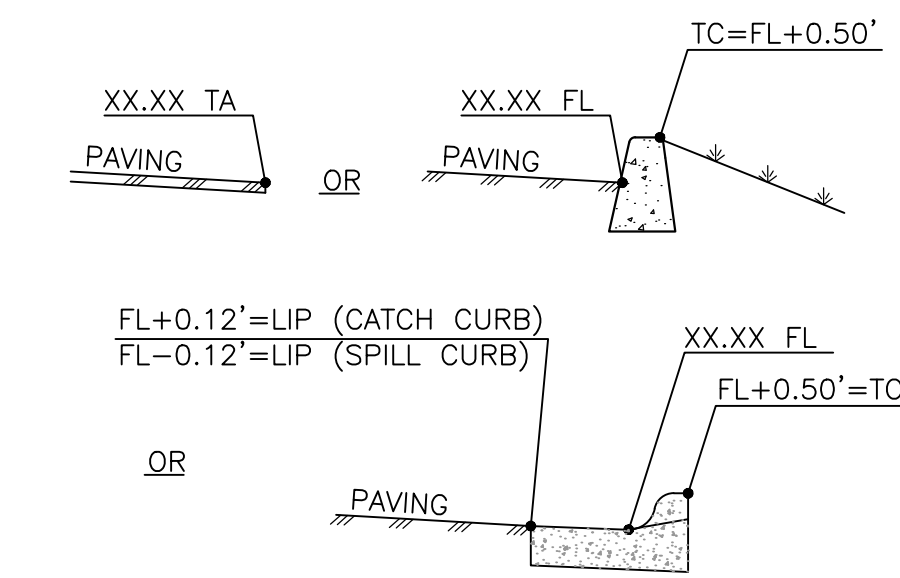
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QUALITY CHECK: PAO  
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JOB NO. L18-032  
FIELDBOOK

LC SMILES DENTAL CLINIC SITE DEVELOPMENT  
LEWISTON, ID  
UTILITY DETAILS



**CONSTRUCTION NOTES**

- ① STORMWATER DETENTION POND. POND BOTTOM ELEVATION = 4996.00.
- ② MODULAR BLOCK RETAINING WALL. TOP OF WALL ELEVATION = 5001.00
- ③ TYPE 1 CATCH BASIN PER CITY OF LEWISTON STD DWG 6-8.  
RIM ELEV=5002.47  
IE(OUT)=4999.47
- ④ TYPE 1A SHALLOW MANHOLE PER CITY OF LEWISTON STD DWG 6-3.  
RIM ELEV=5003.23  
IE(E)=4998.19  
IE(W)=4997.89
- ⑤ TYPE 1 CATCH BASIN PER CITY OF LEWISTON STD DWG 6-8.  
RIM ELEV=5000.33  
IE(E)=4996.13  
IE(W)=4996.03
- ⑥ APPROX. 127.5 L.F. OF 12" PVC STORM PIPE. SLOPE=0.0100 FT/FT.
- ⑦ APPROX 63 L.F. OF 12" PVC STORM PIPE. SLOPE=0.0278 FT/FT.
- ⑧ APPROX. 3 L.F. OF 12" PVC STORM PIPE. IE(E)=4996.03, IE(N)=4996.00.  
SLOPE=0.0100 FT/FT.
- ⑨ OUTLET STRUCTURE. RIM ELEV=4996.50.
- ⑩ APPROX. 30 L.F. OF 12" PVC STORM PIPE. SLOPE=0.0100 FT/FT.
- ⑪ STORMTECH TYPE SC-740 STORMWATER STORAGE CHAMBERS. INSTALLATION PER MANUFACTURER'S REQUIREMENTS.



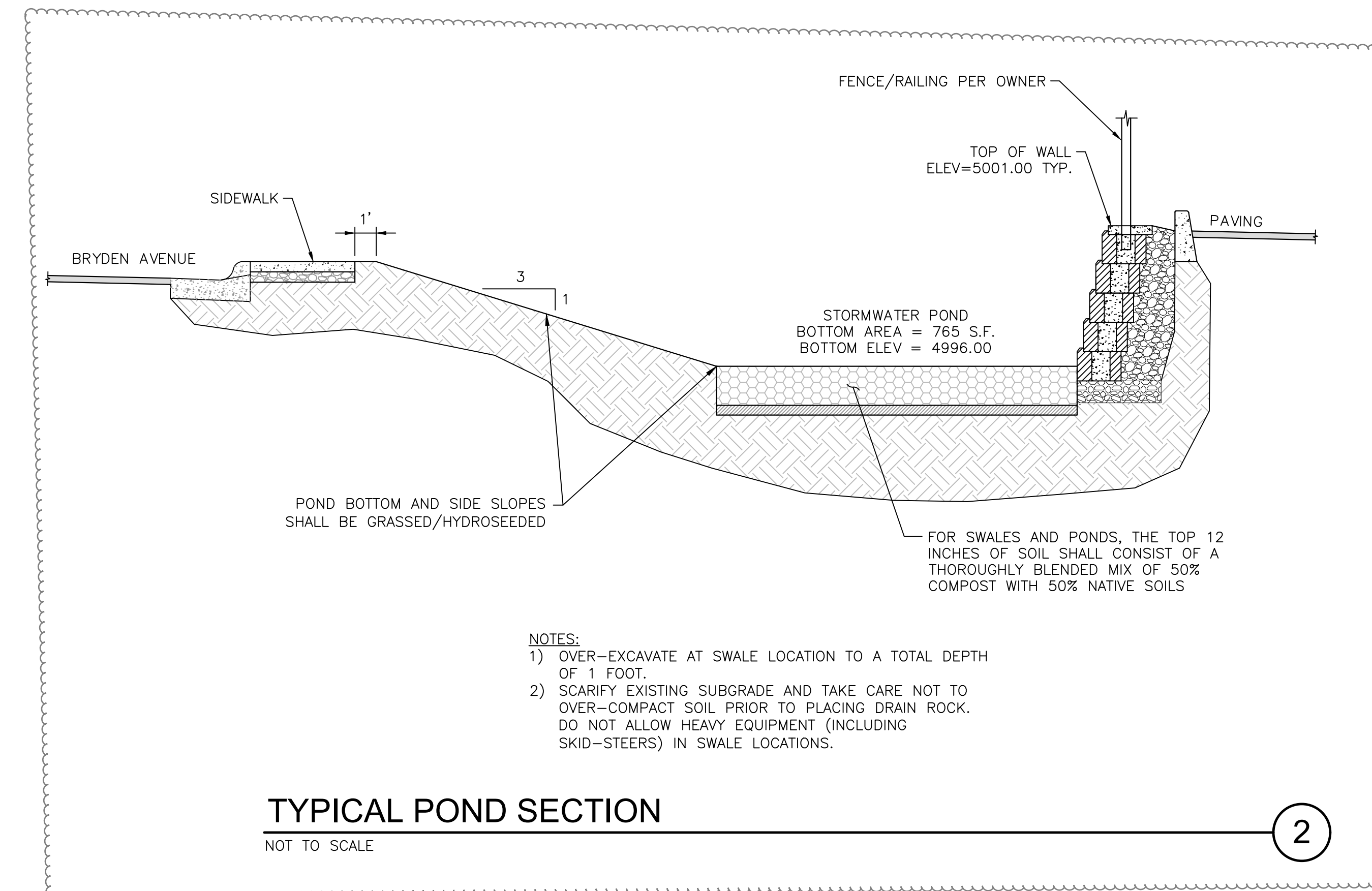
- SPOT ELEVATION ABBREVIATIONS**
- TA = TOP OF ASPHALT
  - TC = TOP OF CURB
  - CONC = CONCRETE
  - SW = SIDEWALK
  - FL = FLOWLINE

- NOTES:**
1. ALL SPOT ELEVATIONS SHOWN REFERENCE A BASE ELEVATION OF 5000.00.  
(EXAMPLE: FL 1.50 = ELEVATION OF 5001.50  
FL 98.50 = ELEVATION OF 4998.50)
  2. SPOT ELEVATIONS SHOWN AS (XX.XX) DENOTE EXISTING GROUND ELEVATION.
  3. TOP OF CURB = TOP OF PAVT + 0.50' UNLESS NOTED OTHERWISE.
  4. (MATCH EX.) = NEW PAVT ELEV TO MATCH EXIST ELEV @ SPOT LOCATION INDICATED.

**SPOT ELEVATION DETAIL**

NOT TO SCALE

1

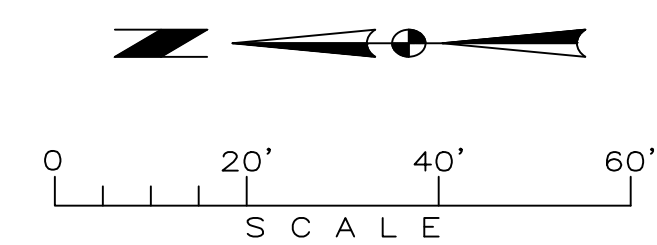


- NOTES:**
- 1) OVER-EXCAVATE AT SWALE LOCATION TO A TOTAL DEPTH OF 1 FOOT.
  - 2) SCARIFY EXISTING SUBGRADE AND TAKE CARE NOT TO OVER-COMPACT SOIL PRIOR TO PLACING DRAIN ROCK. DO NOT ALLOW HEAVY EQUIPMENT (INCLUDING SKID-STEERS) IN SWALE LOCATIONS.

**TYPICAL POND SECTION**

NOT TO SCALE

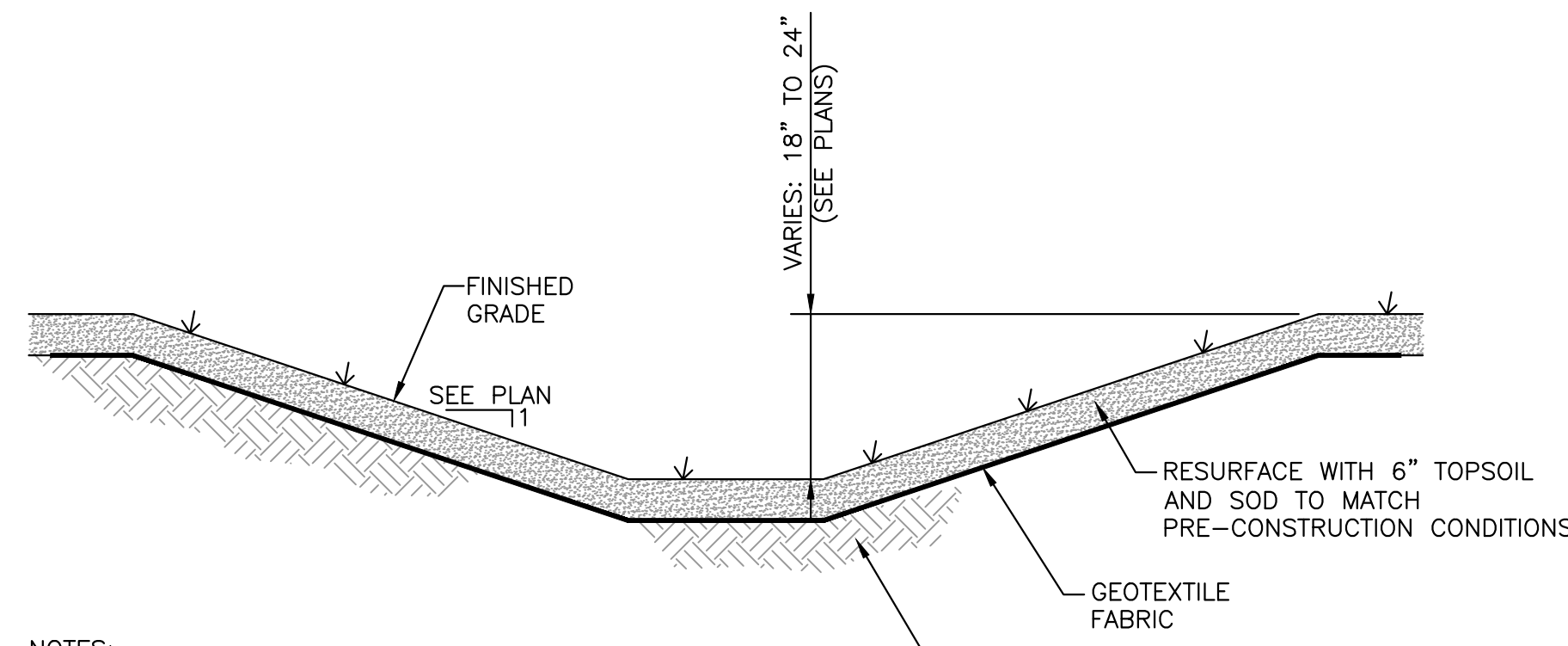
2



**UTILITY LOCATION**

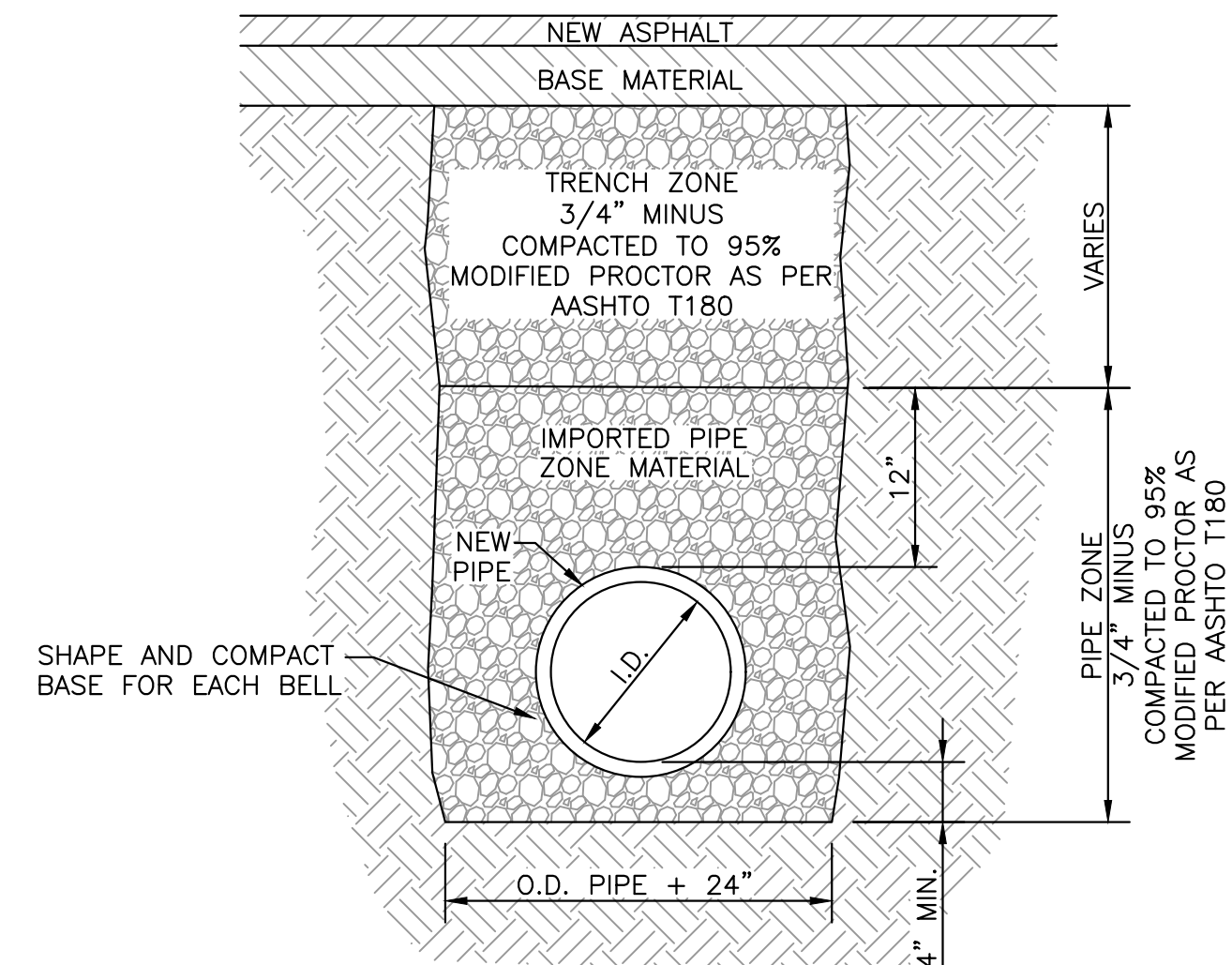
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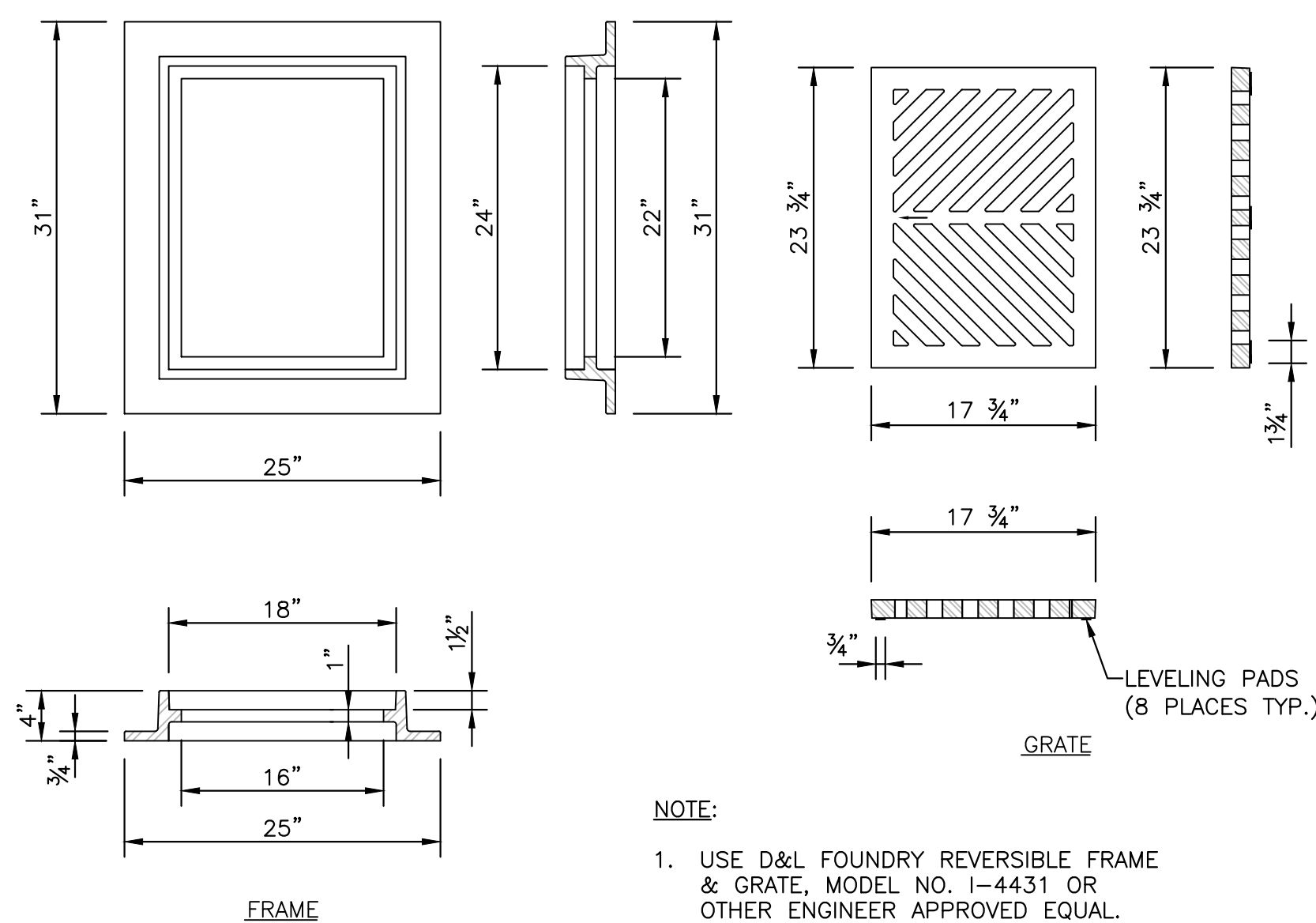
- NOTES:**
- 1) OVER-EXCAVATE AT SWALE LOCATION TO A TOTAL DEPTH OF 1 FOOT.
  - 2) SCARIFY EXISTING SUBGRADE AND TAKE CARE NOT TO OVER-COMPACT SOIL PRIOR TO PLACING DRAIN ROCK. DO NOT ALLOW HEAVY EQUIPMENT (INCLUDING SKID-STEERS) IN SWALE LOCATIONS.

**STORMWATER SWALE DETAIL 1**  
NOT TO SCALE

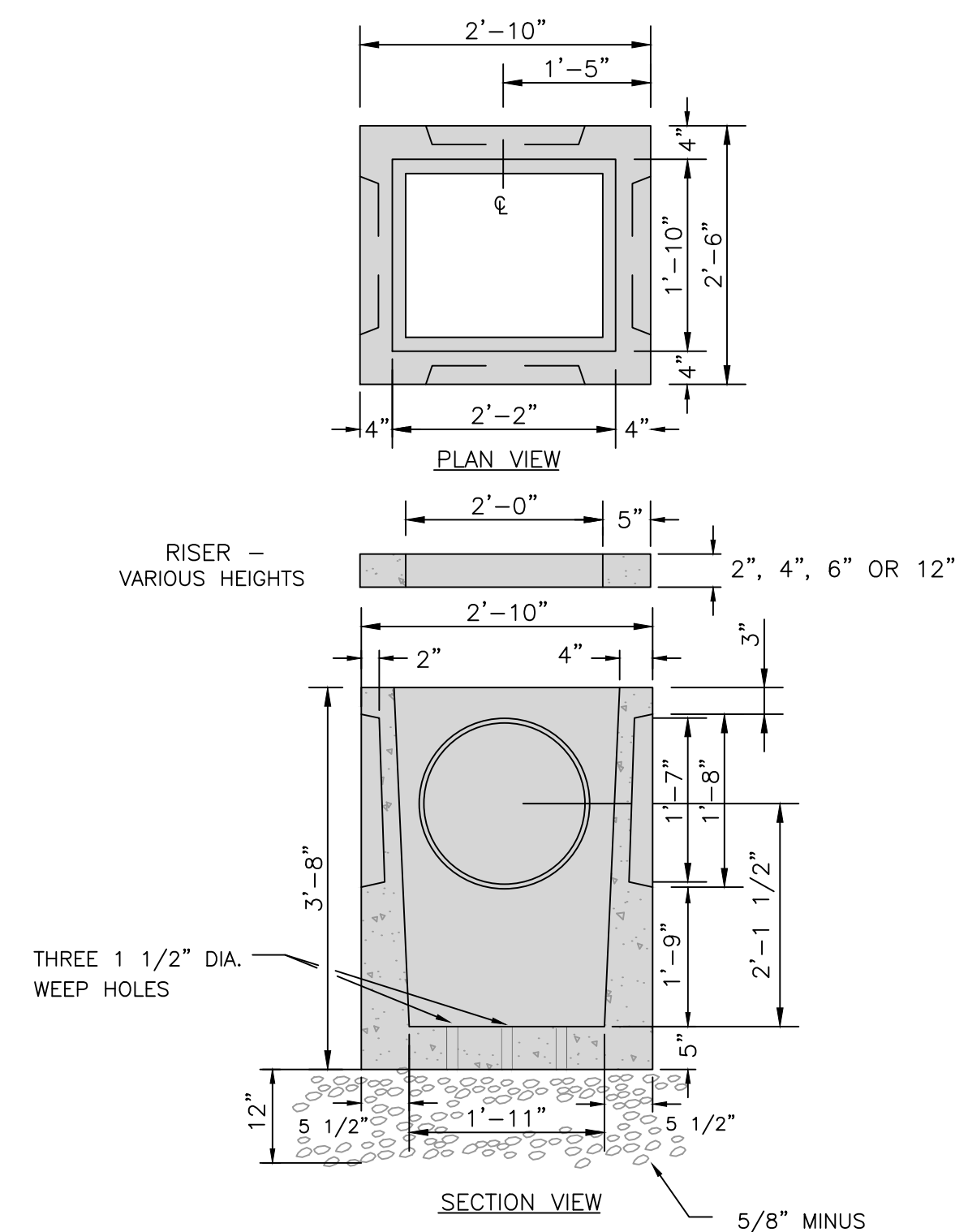


- NOTES:**
1. CONTRACTOR SHALL COMPLY WITH THE MOST CURRENT OSHA REQUIREMENTS FOR EXCAVATIONS.
  2. CLASS D BACKFILL SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF LEWISTON STANDARD CONSTRUCTION SPECIFICATIONS.
  3. TRENCH MATERIAL SHALL BE PLACED IN MAX. OF 6" LIFTS.
  4. TRENCHES ARE TO BE BACKFILLED AT THE END OF EACH DAY.

**UTILITY TRENCH AND BEDDING DETAIL 2**  
NOT TO SCALE



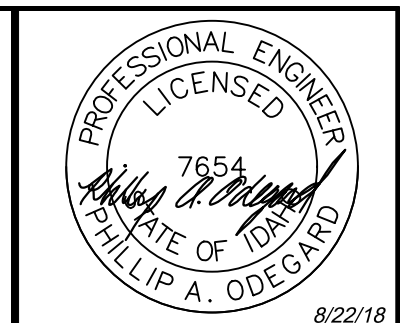
**CATCH BASIN FRAME & GRATE DETAIL 3**  
NOT TO SCALE



**STORM DRAIN CATCH BASIN DETAIL 4**  
NOT TO SCALE

**CATCH BASIN NOTES:**

1. TYPICAL CATCH BASIN [WILBERT PRECAST PRODUCT #1827] AND RISERS [WILBERT PRECAST #1830 (FOR 12") OR #1831-2,4,6 (FOR 2", 4" OR 6")] OR ENGINEER APPROVED EQUAL.
2. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199.
3. ALL CURB INLET STRUCTURES SHALL HAVE A MINIMUM 12" SUMP WITH THREE 1 1/2" DIA. WEEP HOLES IN BASE AND MINIMUM OF 12" OF COMPACTED 5/8" MINUS UNDER BASE; CRUSHED AGGREGATE MATERIAL COMPACTED TO 95% MODIFIED PROCTOR AS PER AASHTO T180.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUPS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
5. ALL PIPES SHALL BE FLUSH WITH BASIN WALL AND SHALL BE MORTARED ALL AROUND.
6. REDUCTION SLAB, RISERS, AND FRAME & GRATE SHALL NOT BE MORE THAN ONE INCH OUT OF VERTICAL ALIGNMENT WITH CATCH BASIN BASE.
7. USE A MINIMUM OF 1/2" NON-SHRINK GROUT BETWEEN RISERS, BASE, AND FRAME.
8. CURB INLET TO BE PLACED WITHIN A TOLERANCE OF 1/2" HORIZONTAL ALIGNMENT FROM CURB LINE.
9. SET GRATE 1" LOWER THAN PROPOSED FLOWLINE TO ENSURE POSITIVE DRAINAGE INTO CATCH BASIN. CURB FLOWLINE SHALL BE TRANSITIONED FOR 3' ON EACH SIDE OF THE CATCH BASIN TO ADJUST FOR 1" DROP. TOP OF CURB IS NOT TO BE DEPRESSED.



REV	DATE	REVISION



**DRAWN BY:** BRL  
**DESIGNED BY:** BRL  
**QUALITY CHECK:** PAO  
**DATE:** 08/22/18  
**JOB NO.:** L18-032  
**FIELDBOOK**

**LC SMILES DENTAL CLINIC SITE DEVELOPMENT  
LEWISTON, ID**

**GRADING & DRAINAGE DETAILS**