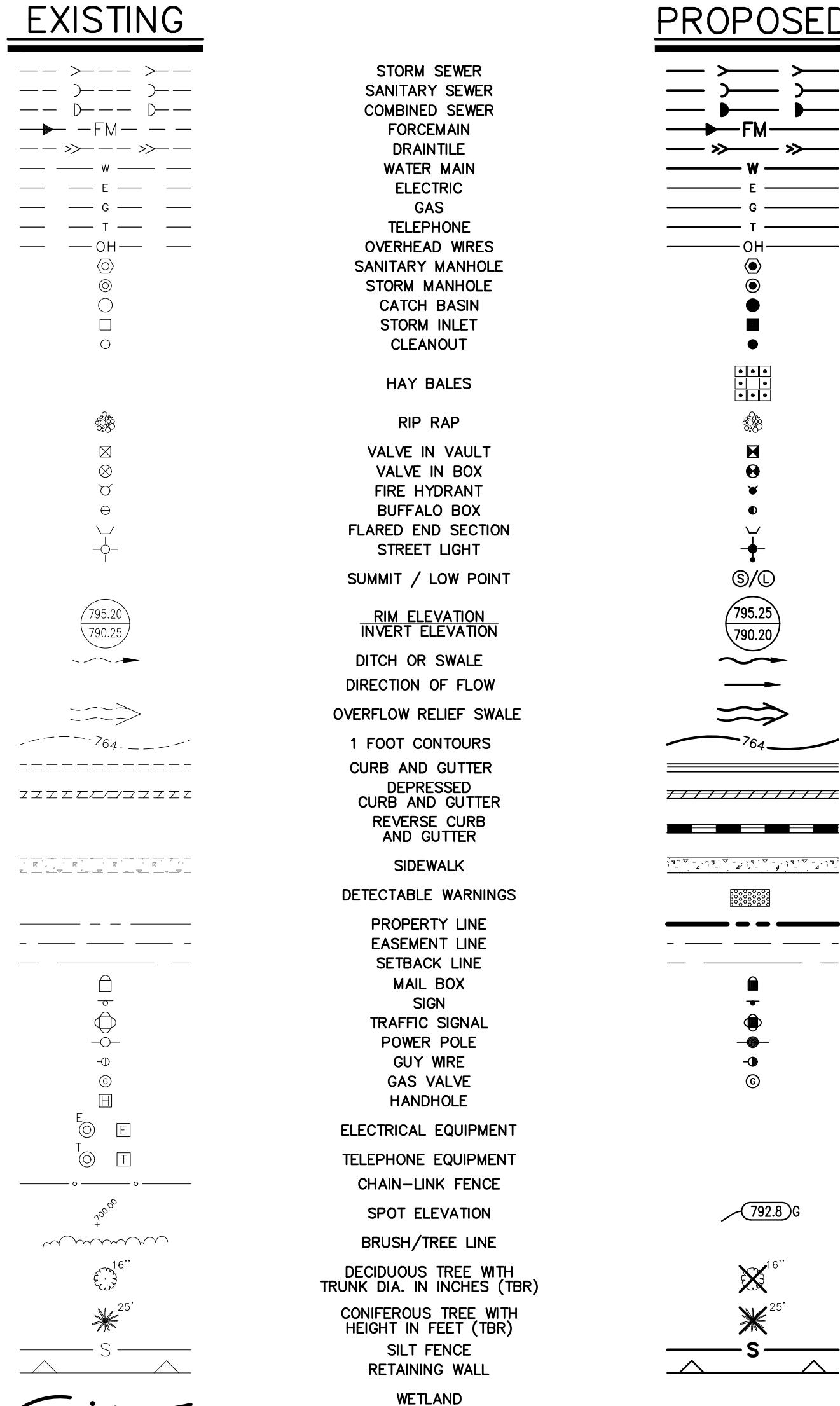


Proposed Improvements for PROPOSED RETAIL DEVELOPMENT

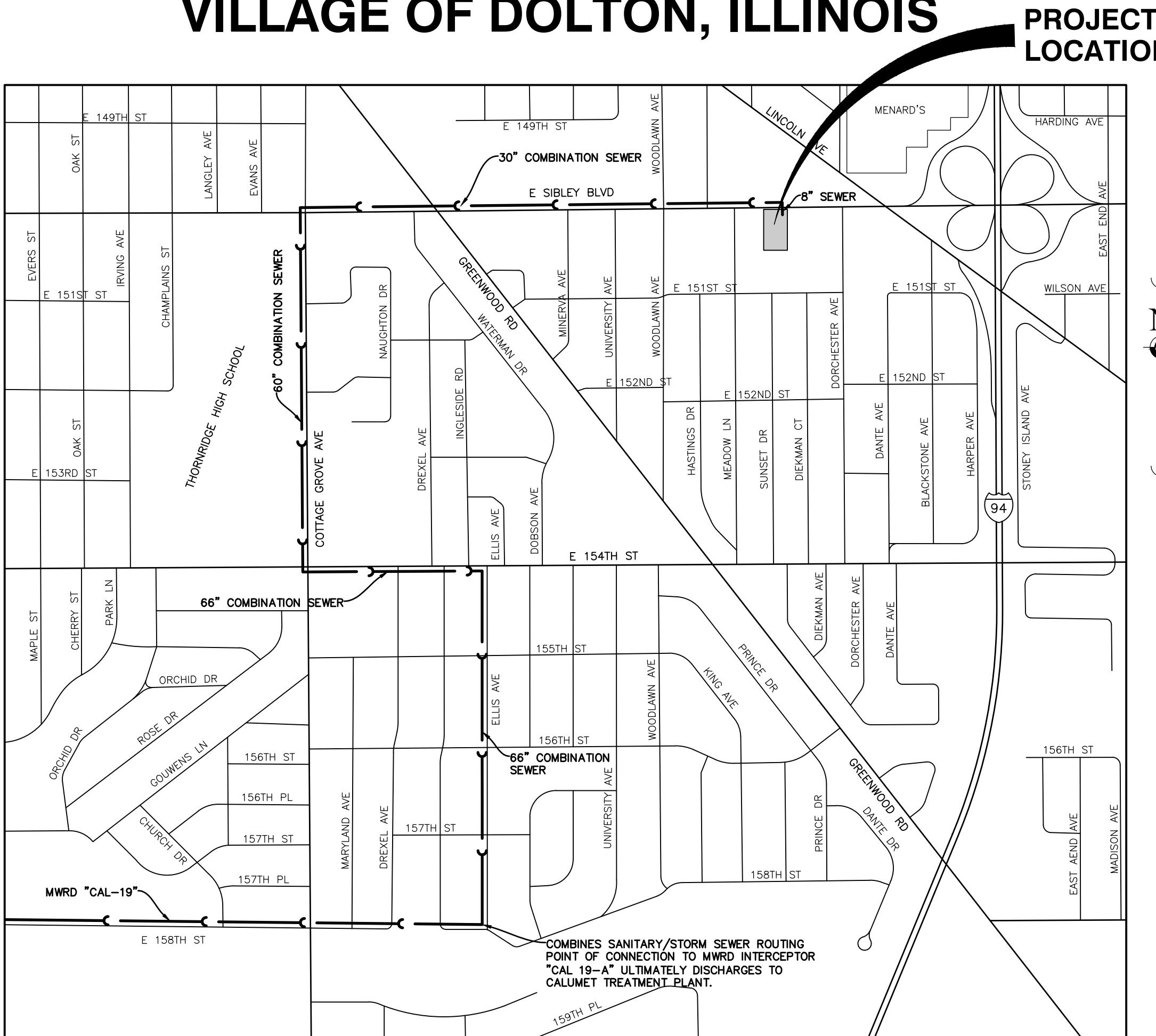
1317 EAST SIBLEY BOULEVARD
VILLAGE OF DOLTON, ILLINOIS

STANDARD SYMBOLS



ABBREVIATIONS

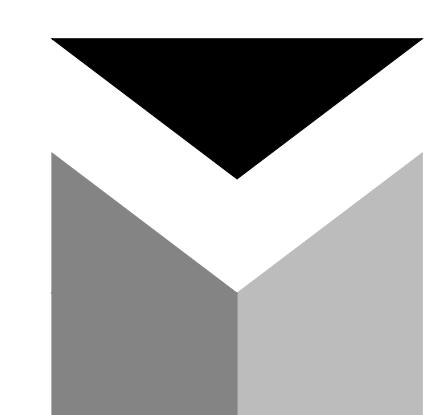
ADJ.	ADJUST
AGG.	AGGREGATE
ARCH.	ARCHITECT
B.A.M.	BITUMINOUS AGGREGATE MIXTURE
B-B	BACK TO BACK
B/C	BACK OF CURB
B/P	BOTTOM OF PIPE
B/W	BACK OF WALK
B-BOX	BUFFALO BOX
BIT.	BITUMINOUS
B.I.O.	BENCHMARK
C.E.	BY OTHERS
C.B.	COMMERCIAL ENTRANCE
C.B.	CATCH BASIN
C.C.	CENTERLINE
CMP.	CORRUGATED METAL PIPE
CNTRL.	CONTROL
C.O.	CLEANOUT
C.ONC.	CONE
D.	CUBIC YARD
DIA.	DITCH
DIP.	DIAMETER
D.I.W.	DUCTILE IRON PIPE
D.I.W.M.	DUCTILE IRON WATER MAIN
D.S.	DOWNSPOUT
D.T.	DRAIN TILE
E.	ELECTRIC
E-E	EDGE TO EDGE
ELEV.	ELEVATION
E.P.	EDGED PAVEMENT
E.X.	EXISTING
F.E.	FIELD ENTRANCE
F-F	FACE TO FACE
F.F.	FINISHED FLOOR
FES	FLARED END SECTION
F/L	FLOW LINE
F.M.	PIPE MAIN
G.	GROUND
G/F	GRADE AT FOUNDATION
G.W.	GUY WIRE
H.D.W.	HEADWALL
H.H.	HANDLE
H.M.	HIGH WATER LEVEL
H.Y.D.	HYDRANT
I.N.L.	INLET
I.N.V.	INVERT
I.P.	IRON PIPE
I.T.	IRON
L.T.	LEAD
M.A.X.	MAXIMUM
M.B.	MAILBOX
M/E	MEET EXISTING
M.H.	MANHOLE
M.I.N.	MINIMUM
N.W.L.	NORMAL WATER LEVEL
P.E.	PRIVATE ENTRANCE
P.C.	POINT OF CURVATURE
P.C.C.	POINT OF COMPOUND CURVE
P.G.L.	PROFILE GRADE LINE
P.I.	POINT OF INTERSECTION
P.R.	PROPERTY LINE
P.P.	POWER POLE
P.P.O.	PROPOSED
P.T.	POINT OF TANGENCY
P.V.C.	POLYVINYL CHLORIDE PIPE
P.V.	POINT OF VERTICAL CURVATURE
P.V.T.	POINT OF VERTICAL INTERSECTION
P.V.T.	POINT OF VERTICAL TANGENCY
P.V.	PAVEMENT
P.U.D.E.	PUBLIC UTILITY & DRAINAGE EASEMENT
R.	RADIUS
R.O.W.	RIGHT-OF-WAY
R.C.P.	REINFORCED CONCRETE PIPE
R.E.M.	REMOVAL
R.E.V.	REVERSE
R.R.	RAILROAD
R.T.	RIGHT
S.A.N.	SAWN
S.F.	SQUARE FOOT
S.H.D.	SHOULDER
S.L.	STREET LIGHT
S.M.H.	SANITARY MANHOLE
S.T.	STATION
S.T.A.	STATION
S.T.D.	STANDARD
S.W.	SIDEWALK
S.Y.	SQUARE YARDS
S.Y.	SQUARE YARDS
T.B.R.	TO BE REMOVED
T.	TOE
T.E.L.	TELEPHONE
T-A	TYPE A
T/C	TOP OF CURB
T/F	TOP OF FOUNDATION
T/P	TOP OF PIPE
T/W	TOP OF WALK
T/WALL	TOP OF WALL
T/WALL	TEMPERATURE
T/WALL	TRANSFORMER
V.B.	VALVE BOX
V.C.P.	VITRIFIED CLAY PIPE
V.V.	VALVE VAULT
W.L.	WATER LEVEL
W.M.	WATER MAIN



LOCATION MAP

N.T.S.

DEPARTMENT PROPERTY GROUP, LLC
200 W. MADISON ST, SUITE 4200
CHICAGO, ILLINOIS 60606
(312) 332-4172

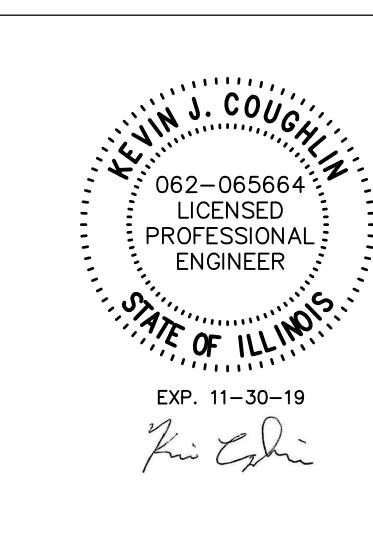


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Civil Engineers • Surveyors • Water Resources Engineers • Water & Wastewater Engineers
Construction Managers • Environmental Scientists • Landscape Architects • Planners

MANHARD CONSULTING, LTD. IS NOT RESPONSIBLE FOR THE SAFETY OF ANY PARTY AT OR ON THE CONSTRUCTION SITE. SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ANY OTHER PERSON OR ENTITY PERFORMING WORK OR SERVICES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR THE JOB SITE SAFETY OF PERSONS ENGAGED IN THE WORK OR THE MEANS OR METHODS OF CONSTRUCTION.

UTILITY CONTACTS	
ELECTRIC	WATER VILLAGE OF DOLTON 4401 E 144TH STREET CRESTWOOD, IL 60445 (800) 334-7661
COMED	TEMP AT&T 236 E 159TH STREET HARVEY, IL 60426 (708) 222-2222
4401 E 135TH STREET	CONTACT: MATHEW STACEY
CRESTWOOD, IL 60445	
(800) 334-7661	
GAS	TELEPHONE NICO 19199 GLENWOOD ROAD IL 60507 (888) 642-6748
NICO	AT&T 236 E 159TH STREET HARVEY, IL 60426 (708) 222-2222
19199 GLENWOOD ROAD	
IL 60507	
(888) 642-6748	
STORM SEWER	SANITARY SEWER MWRDG - CALUMET WRP 401 E 144TH STREET DOLTON, IL 60419 (708) 201-3280
VILLAGE OF DOLTON	CONTACT: MATHEW STACEY
401 E 144TH STREET	
DOLTON, IL 60419	
(708) 201-3280	
JULIE	SANITARY SEWER MWRDG - CALUMET WRP 401 E 144TH STREET DOLTON, IL 60419 (708) 201-3280
ILLINOIS ON-CALL SYSTEM	CONTACT: MATHEW STACEY
Simply Call 811	



K. VAN J. COUCHIN
STATE OF ILLINOIS
EX. 062-065664
LICENSED PROFESSIONAL
ENGINEER
DATE: 08-05-19
SCALE: N.T.S.
SHEET
1 OF 13
AETD0101

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ALTA-NSPS LAND TITLE SURVEY
3	EXISTING CONDITIONS AND DEMOLITION PLAN
4	SITE DIMENSIONAL AND PAVING PLAN
5	GRADING PLAN
6	UTILITY PLAN
7	MWRD EXHIBIT
8	SOIL EROSION AND SEDIMENT CONTROL PLAN
9	CONSTRUCTION DETAILS
10	CONSTRUCTION DETAILS
11	CONSTRUCTION DETAILS
12	CONSTRUCTION SPECIFICATIONS
13	CONSTRUCTION SPECIFICATIONS

DRAINAGE NARRATIVE:

I, [Signature], HEREBY CERTIFY THAT ADEQUATE STORMWATER STORAGE AND DRAINAGE CAPACITY HAS BEEN PROVIDED BY THIS DEVELOPMENT, SUCH THAT SURFACE WATER FROM THE DEVELOPMENT WILL NOT BE DIVERTED ONTO AND CAUSE DAMAGE TO ADJACENT PROPERTY FOR STORMS UP TO AND INCLUDING THE ONE HUNDRED (100) YEAR EVENT, AND THAT THE DESIGN PLANS ARE IN COMPLIANCE WITH ALL FEDERAL, STATE, COUNTY, AND CITY LAWS AND ORDINANCES.

NOTES:

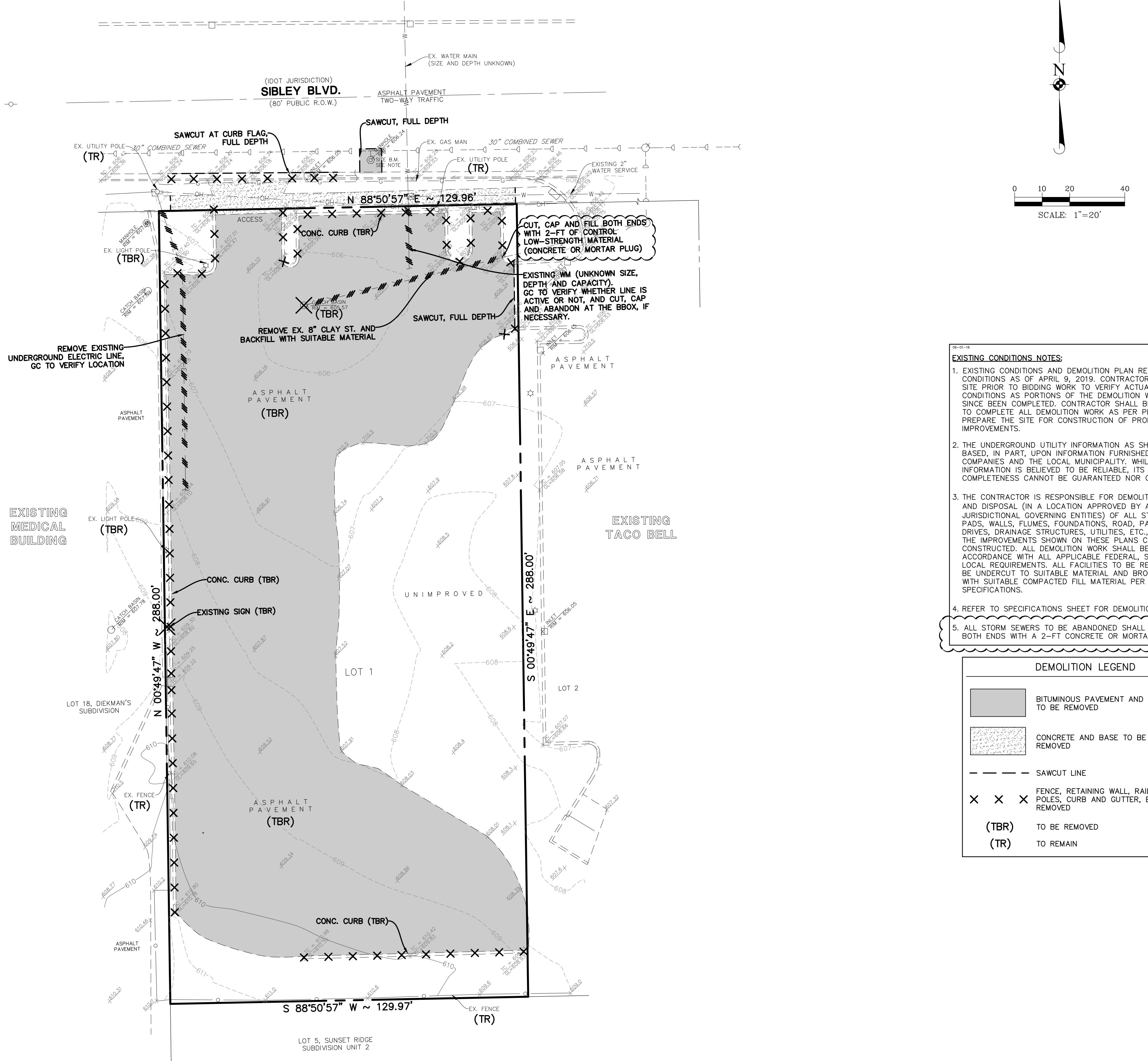
1. THE BOUNDARY LINES AND TOPOGRAPHY FOR THIS PROJECT ARE BASED ON A FIELD SURVEY COMPLETED BY ZARKO SEKEREZ AND ASSOCIATES, INC. ON APRIL 9, 2019. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY MANHARD CONSULTING AND THE CLIENT IN WRITING OF ANY DIFFERING CONDITIONS.

BENCHMARKS:

SITE BENCHMARK IS RIM OF MANHOLE IN SIBLEY BOULEVARD AT APPROXIMATE MIDPOINT OF LOT 2. ELEVATION = 606.24

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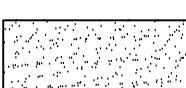
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06-01-16

EXISTING CONDITIONS NOTES:

1. EXISTING CONDITIONS AND DEMOLITION PLAN REPRESENT SITE CONDITIONS AS OF APRIL 9, 2019. CONTRACTOR SHALL INSPECT SITE PRIOR TO BIDDING WORK TO VERIFY ACTUAL FIELD CONDITIONS AS PORTIONS OF THE DEMOLITION WORK MAY HAVE SINCE BEEN COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLETE ALL DEMOLITION WORK AS PER PLANS TO PREPARE THE SITE FOR CONSTRUCTION OF PROPOSED IMPROVEMENTS.
2. THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.
3. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL AND DISPOSAL (IN A LOCATION APPROVED BY ALL JURISDICTIONAL GOVERNING ENTITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, ROAD, PARKING LOTS, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THESE PLANS CAN BE CONSTRUCTED. ALL DEMOLITION WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPAKTED FILL MATERIAL PER THE SPECIFICATIONS.
4. REFER TO SPECIFICATIONS SHEET FOR DEMOLITION NOTES.
5. ALL STORM SEWERS TO BE ABANDONED SHALL BE PLUGGED AT BOTH ENDS WITH A 2-FT CONCRETE OR MORTAR PLUG

DEMOLITION LEGEND	
	BITUMINOUS PAVEMENT AND BASE TO BE REMOVED
	CONCRETE AND BASE TO BE REMOVED
— — — —	SAWCUT LINE
×	FENCE, RETAINING WALL, RAILROAD TIES, POLES, CURB AND GUTTER, ETC. TO BE REMOVED
(TBR)	TO BE REMOVED
(TR)	TO REMAIN

PROPOSED RETAIL DEVELOPMENT

VILLAGE OF DOLTON, ILLINOIS

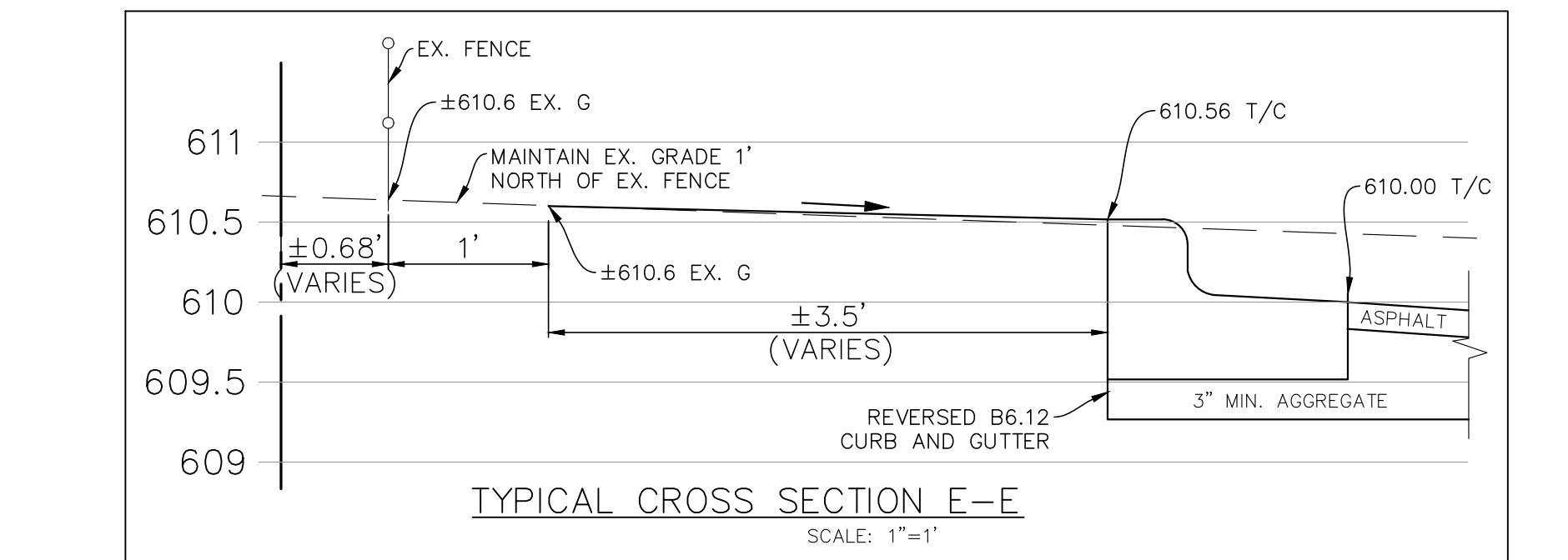
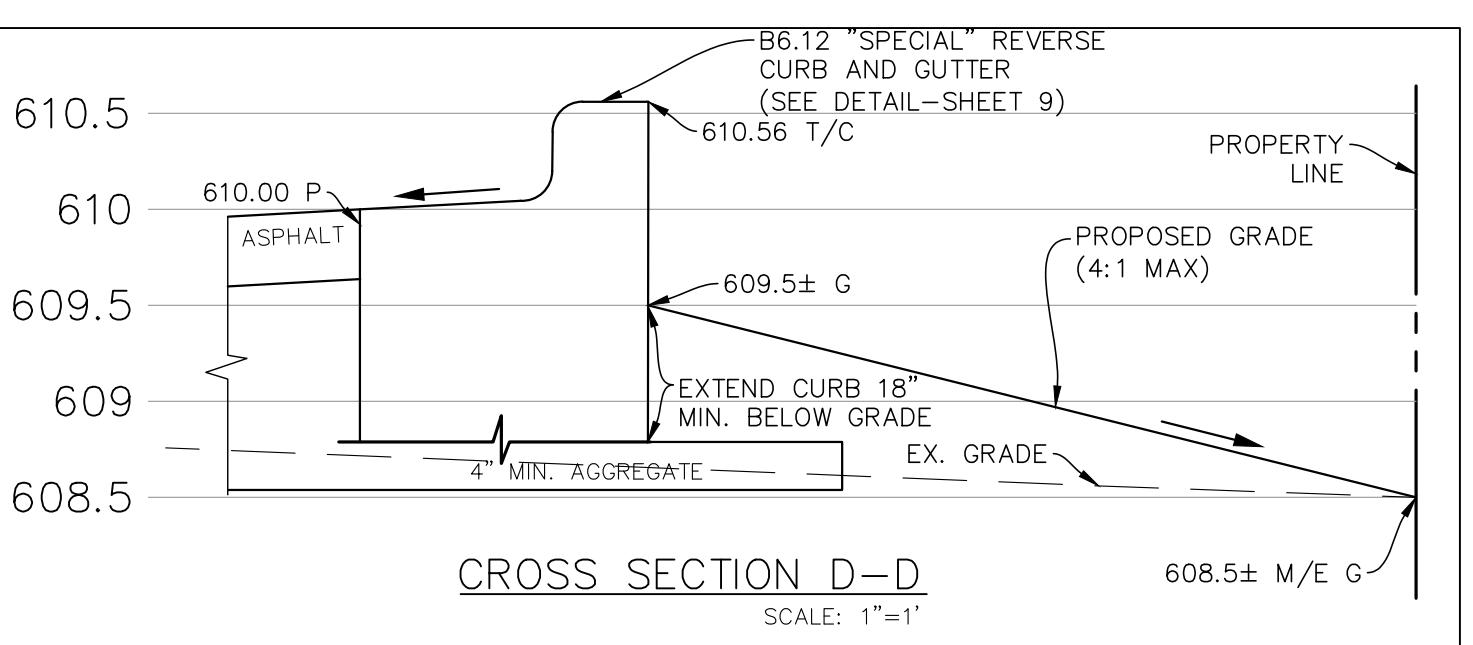
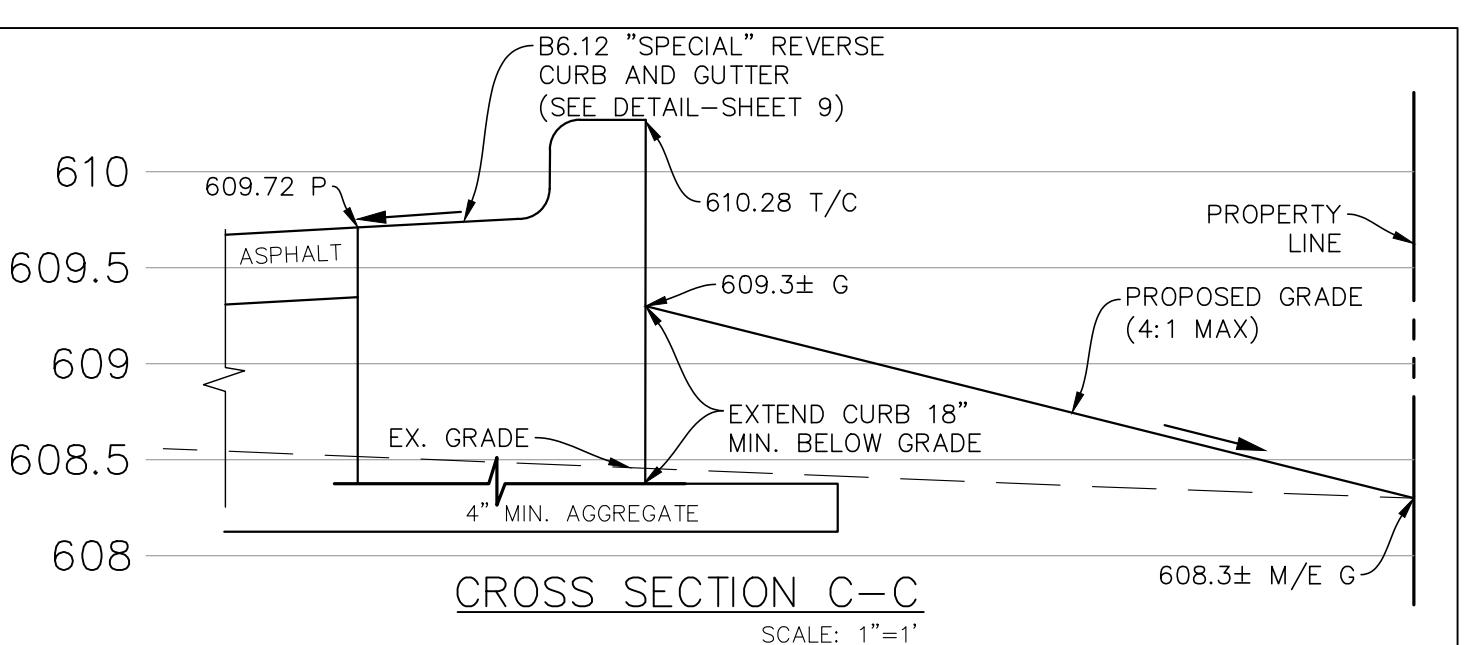
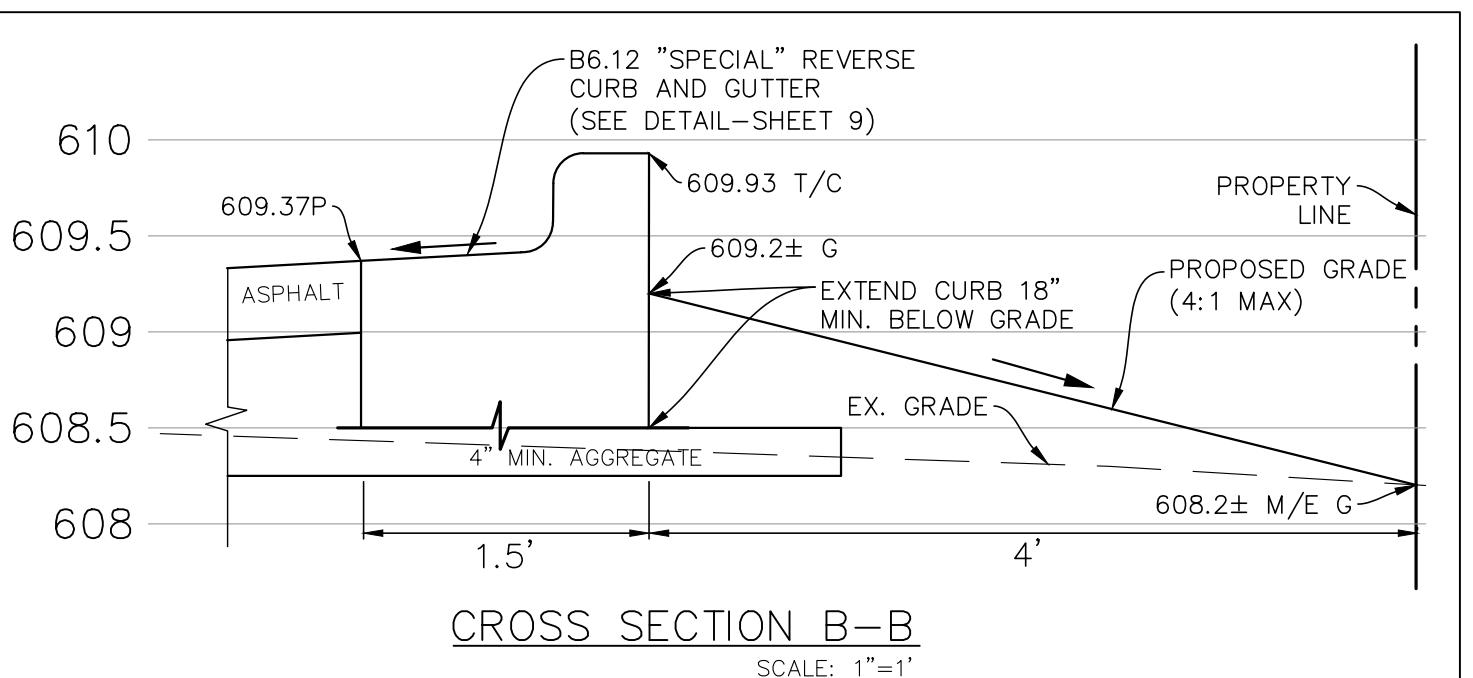
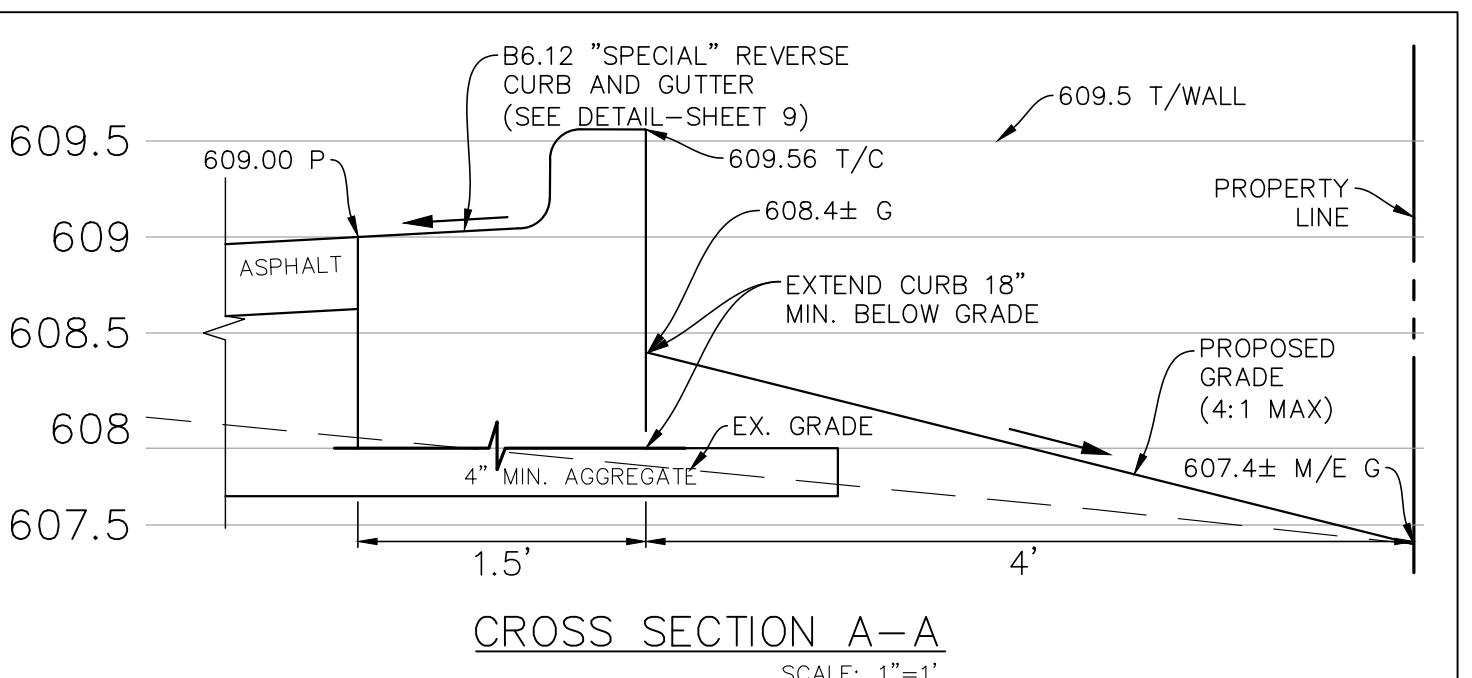
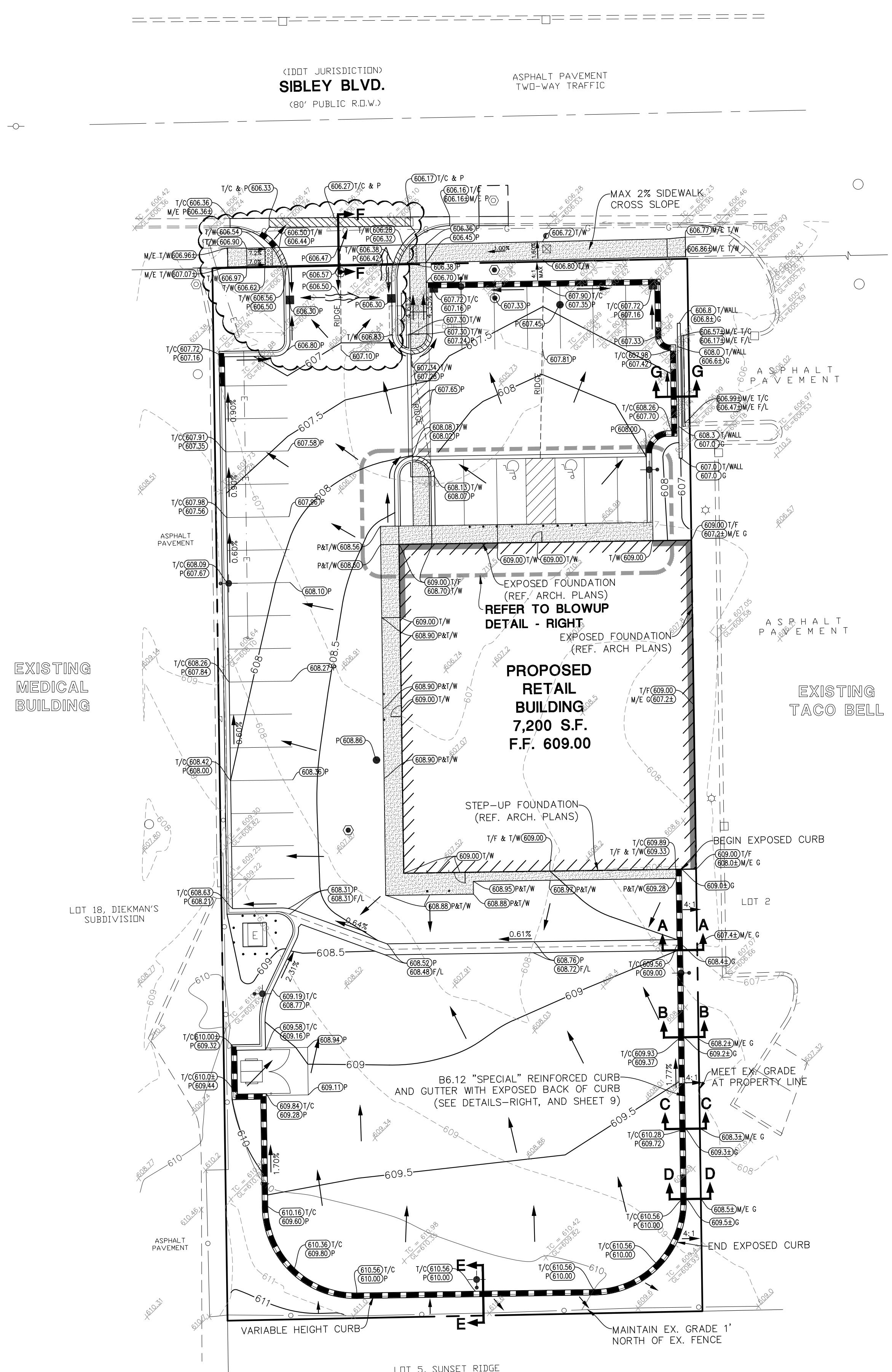
EXISTING CONDITIONS AND DEMOLITION PLAN

EXISTING CONDITIONS AND DEMOLITION PLAN

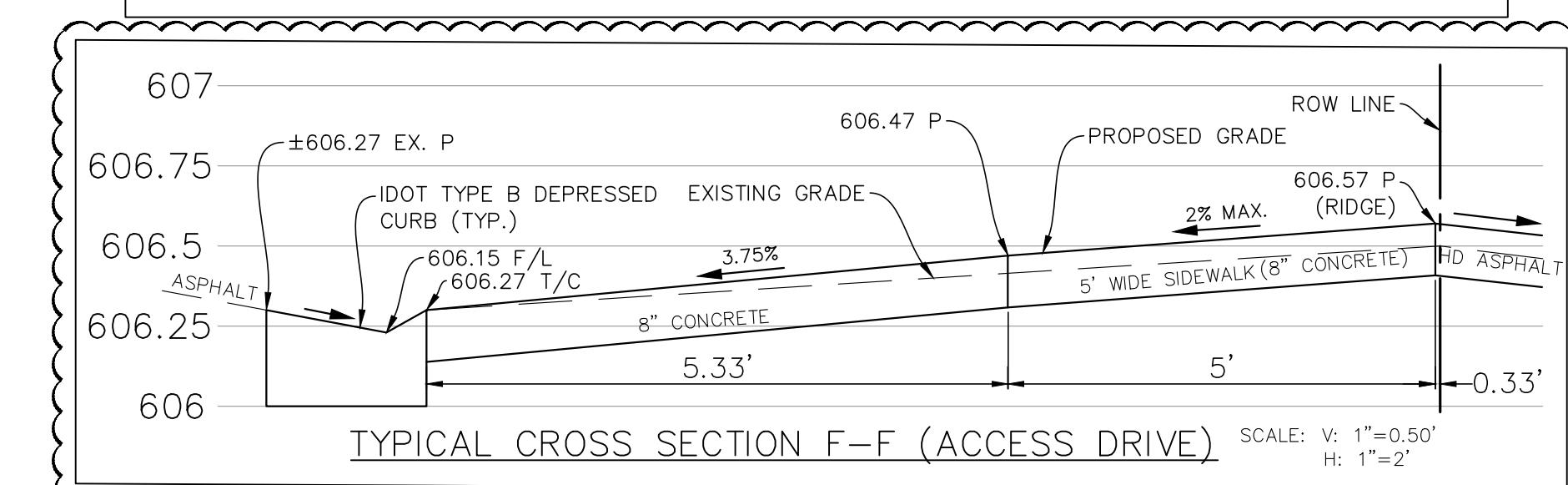
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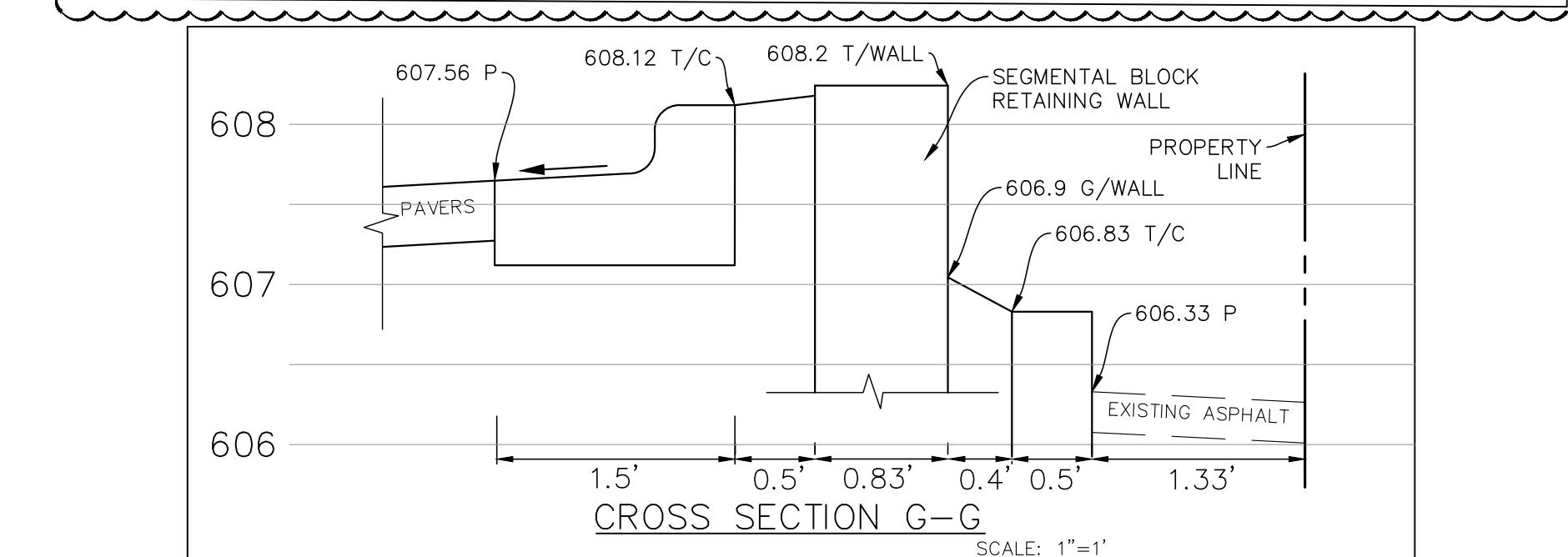
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	10-30-19 REVISED PER INTERNAL REVIEW	JRC
	10-15-19 REVISED PER VILLAGE REVIEW	JRC



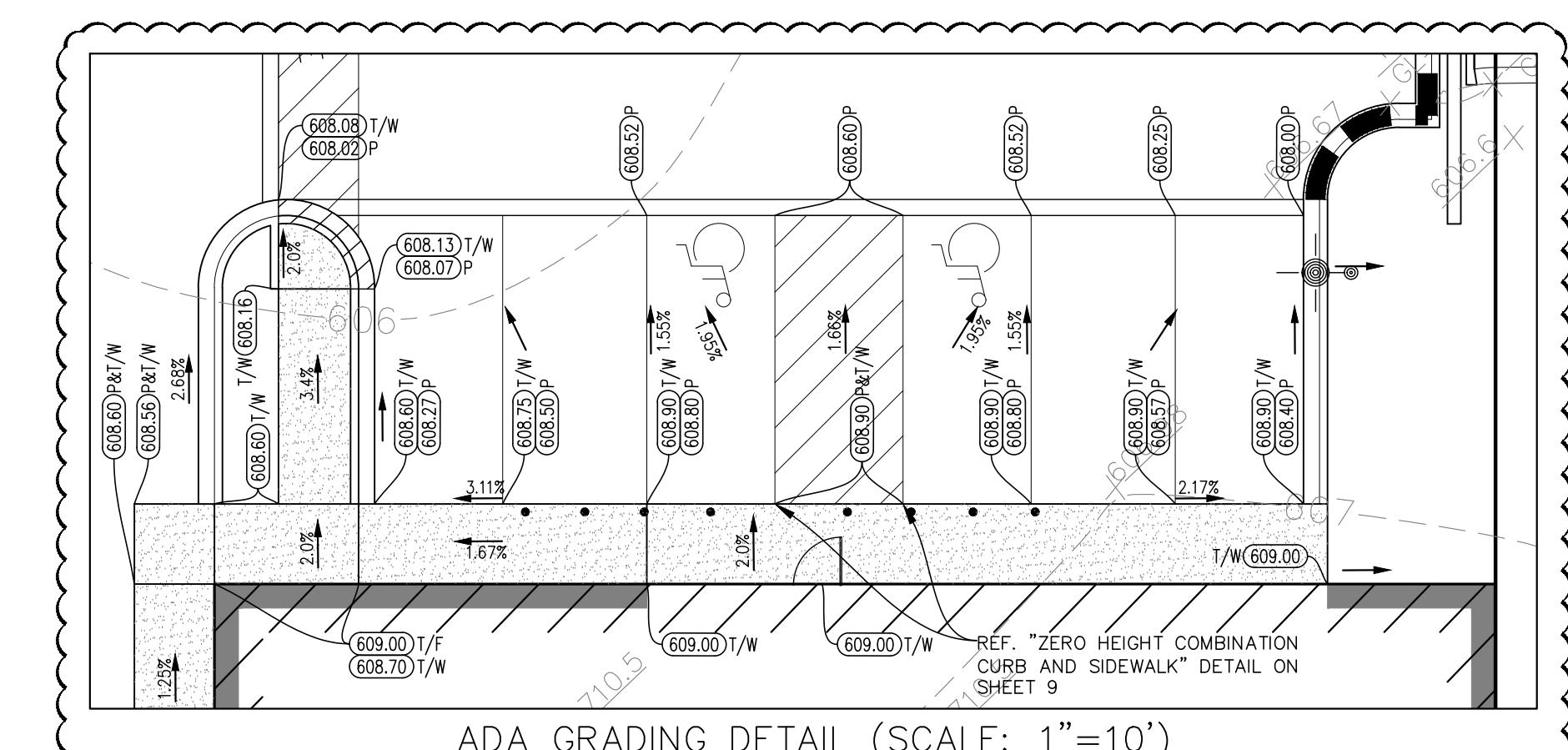
TYPICAL CROSS SECTION E-E



TYPICAL CROSS SECTION E-E (ACCESS DRI



CROSS SECTION G

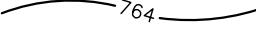
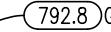


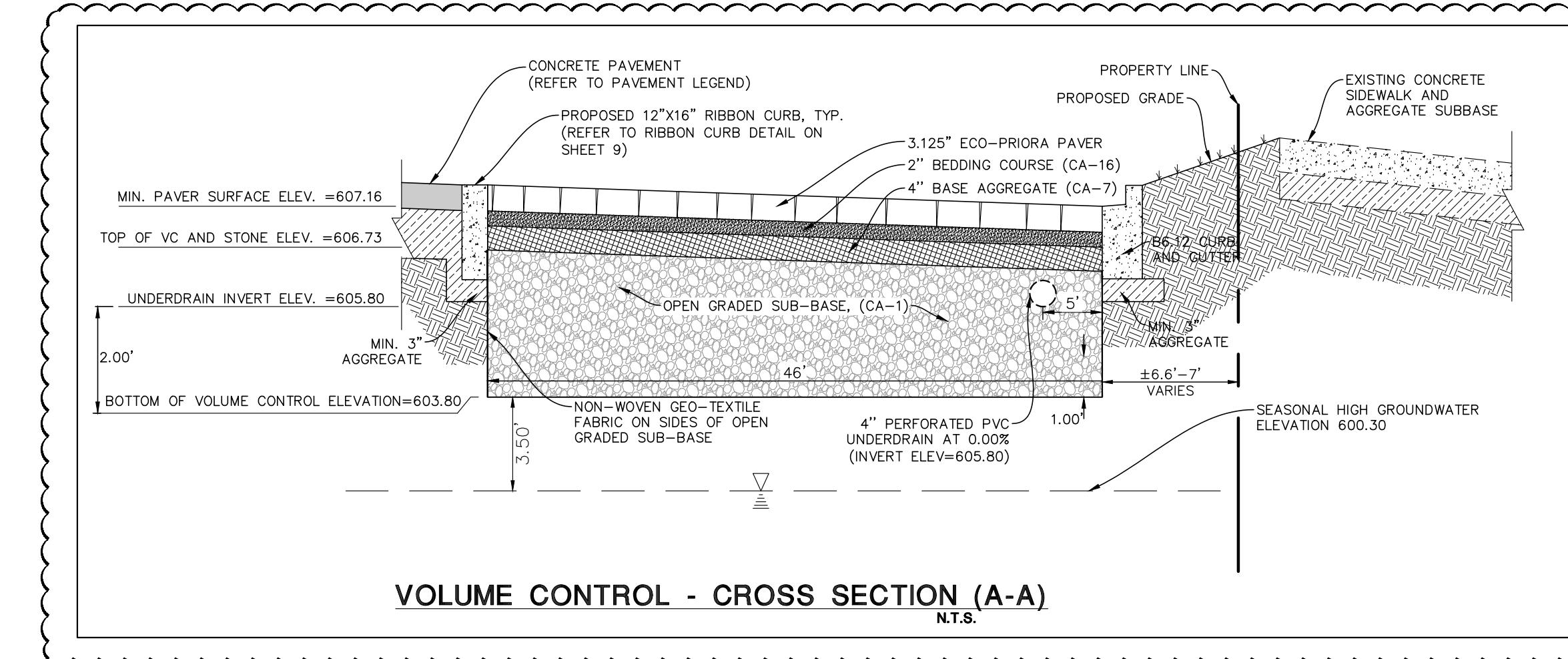
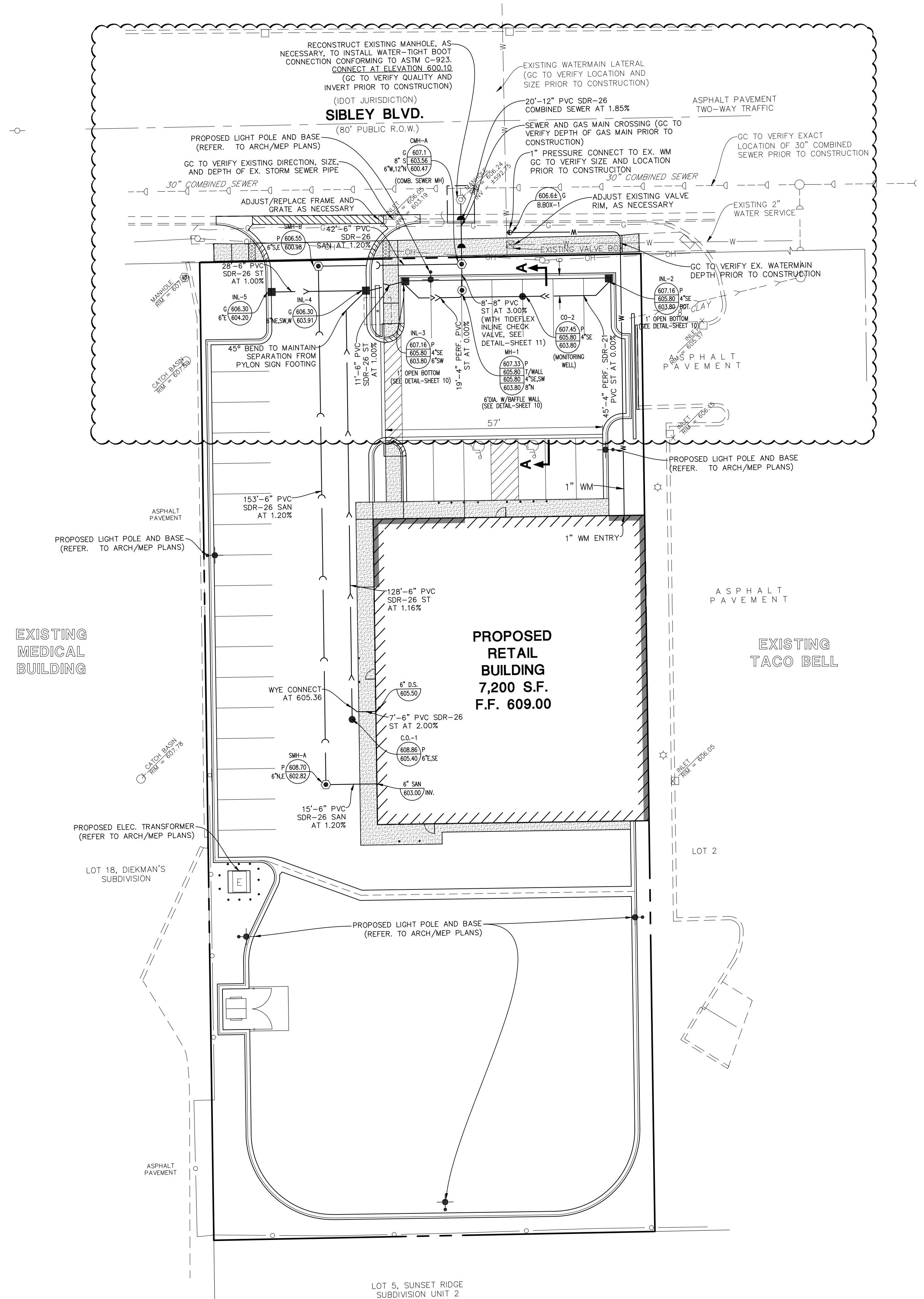
ADA GRADING DETAIL (SCALE: 1"=10')

06-01-16

GRADING NOTES:

1. RETAINING WALL DESIGN TO BE PROVIDED BY OTHERS.
2. PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE PARKING AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION.
3. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
4. MEET EXISTING GRADE AT PROPERTY LIMITS UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL REFER TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN AND DETAILS FOR CONSTRUCTION SCHEDULING AND EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS.
6. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
7. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
8. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITION OR BETTER.
9. ALL UNPAVED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 6 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
10. EXISTING TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS AS PREPARED BY ZARKO SEKEREZ AND ASSOCIATES, INC. ON APRIL 9, 2019. CONTRACTOR SHALL FIELD CHECK EXISTING ELEVATIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
11. TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.

01-01-16	GRADING PLAN LEGEND	
	764	PROPOSED 1 FOOT CONTOURS
	792.8 G	PROPOSED SPOT ELEVATION
F.F.		PROPOSED FINISHED FLOOR ELEVATION
G/F		PROPOSED GRADE AT FOUNDATION
P		PROPOSED PAVEMENT ELEVATION
T/C		PROPOSED TOP OF CURB
T/W		PROPOSED TOP OF WALK
T/WALL		PROPOSED TOP OF WALL
M/E		MEET EXISTING
G		PROPOSED GROUND GRADE OR GROUND AT BASE OF RETAINING WALL
P & T/W		PAVEMENT FLUSH WITH SIDEWALK GRADE
T/F		PROPOSED TOP OF FOUNDATION
		PROPOSED DITCH OR SWALE
		PROPOSED DIRECTION OF FLOW
		OVERFLOW RELIEF SWALE
	RIDGE	PROPOSED RIDGE LINE
 	0.5'	PROPOSED DEPTH OF PONDING
		RETAINING WALL
		PROPOSED SWALE LOW POINT
		PROPOSED SWALE SUMMIT



VOLUME CONTROL - CROSS SECTION (A-A)

SCALE: $1'' = 20'$

PROPOSED RETAIL DEVELOPMENT

Manhard

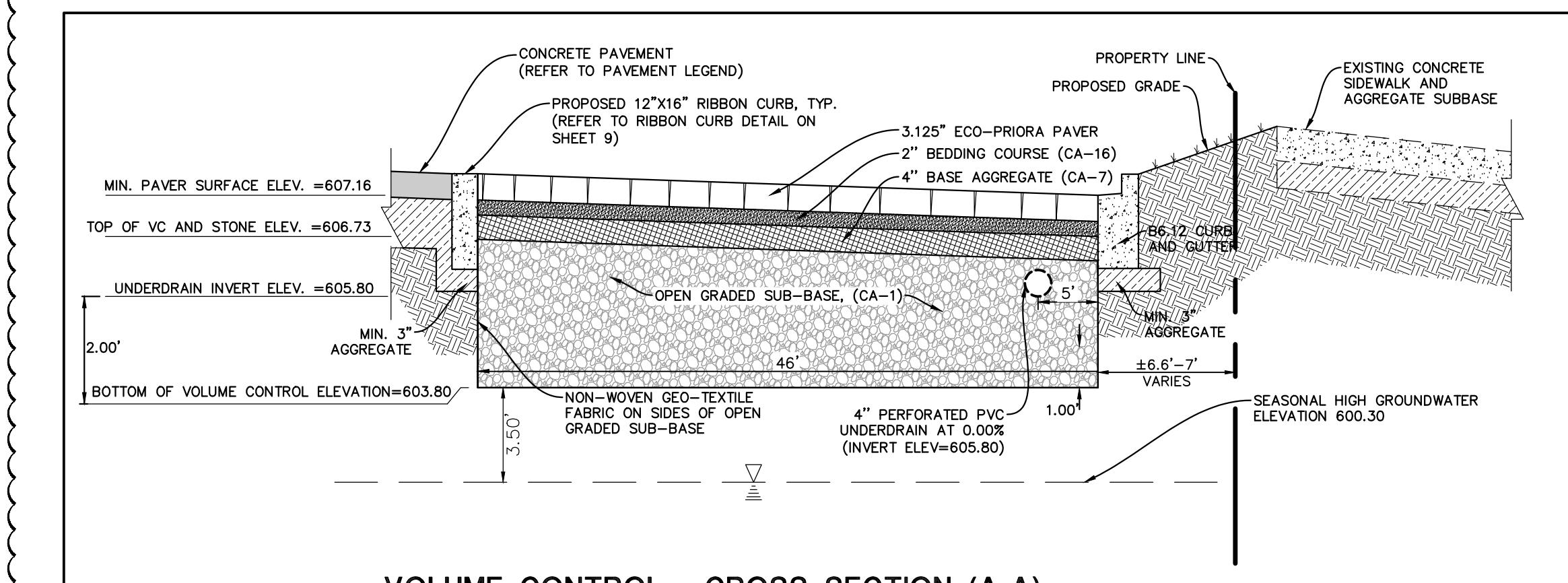
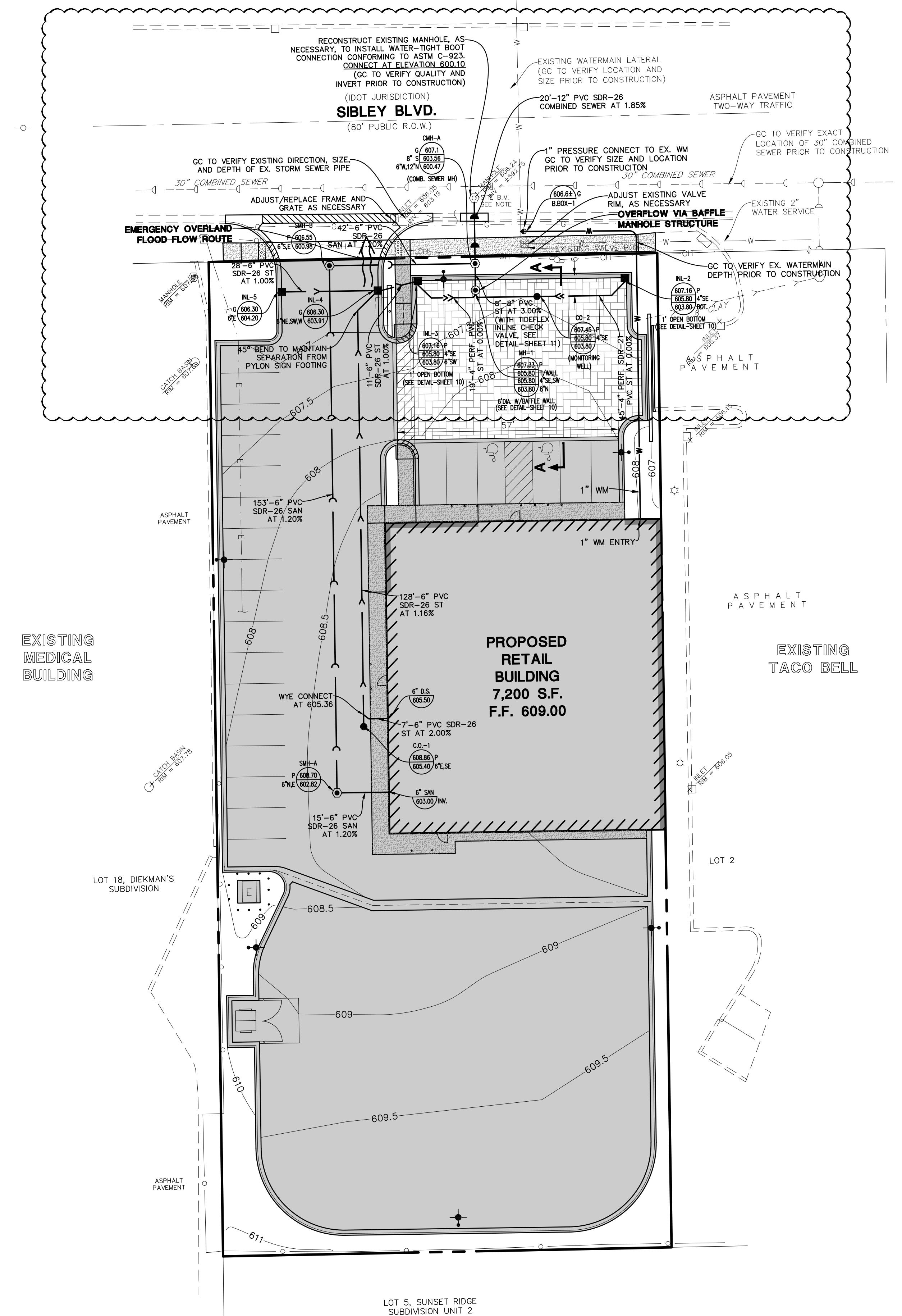
אנו למדנו

<u>STORM MANHOLE TABLE</u>			
MANHOLE LABEL	SIZE (IN.)	TYPE	FRAME AND GRATE
MH-1	72"	PRECAST CONCRETE OUTLET CONTROL STRUCTURE WITH BAFFLE WALL	(2) NEENAH R-1772 CLOSED LID
INL-2	24"	PRECAST CONCRETE W/ 1' DIA. OPEN BOTTOM	NEENAH R-2502-C
INL-3	24"	PRECAST CONCRETE W/ 1' DIA. OPEN BOTTOM	NEENAH R-2502-C
INL-4	24"	PRECAST CONCRETE	NEENAH R-2502-C
INL-5	24"	PRECAST CONCRETE	NEENAH R-2502-C

1. REFER TO SHEET 12—CONSTRUCTION DETAILS FOR NYOPLAST CONSTRUCTION DETAILS AND SPECIFICATIONS.
2. CLEANOUTS IN PAVEMENT SHALL HAVE PANELLA-TYPE HEAVY DUTY LID

- UTILITY NOTES:**

 1. ALL UTILITY DIMENSIONS ARE TO CENTER OF PIPE OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
 2. BUILDING DIMENSIONS AND ADJACENT UTILITY LAYOUT HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THEREFORE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 3. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
 4. ROUTING OF GAS, ELECTRIC AND TELEPHONE SERVICES IF SHOWN ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE BASED UPON FINAL REVIEW AND APPROVAL BY RESPECTIVE UTILITY COMPANIES AND OWNER. CONTRACTOR SHALL CONTACT EACH UTILITY COMPANY AND COORDINATE FINAL LOCATIONS FOR ALL UTILITY SERVICES PRIOR TO START OF CONSTRUCTION.
 5. CONTRACTOR SHALL EXCAVATE AND VERIFY ALL EXISTING SEWER, WATER MAIN AND DRY UTILITY LOCATIONS, SIZES, CONDITIONS & ELEVATIONS AT PROPOSED POINTS OF CONNECTION AND CROSSINGS PRIOR TO ANY UNDERGROUND CONSTRUCTION AND NOTIFY THE OWNER OF ANY DISCREPANCIES OR CONFLICTS.
 6. LIGHTING AND UNDERGROUND CABLE IF SHOWN ON PLANS ARE FOR APPROXIMATE LOCATION ONLY. REFER TO ARCHITECTURAL PLANS FOR SPECIFICATIONS AND DETAILS.
 7. THE CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF ALL EXISTING STRUCTURES TO PROPOSED FINISH GRADES.
 8. CONTRACTOR TO VERIFY LOCATION, SIZES, AND ELEVATION OF ALL BUILDING SERVICE LOCATIONS WITH ARCHITECTURAL PLANS.
 9. AT LOCATIONS WHERE WATER MAIN CROSSES BENEATH OR LESS THAN 18" ABOVE A SEWER, PROVIDE WATER MAIN PROTECTION PER STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION.
 0. ELEVATIONS GIVEN FOR STORM SEWER STRUCTURES LOCATED IN CURB LINE ARE PAVEMENT ELEVATIONS.
 1. ALL WATER MAIN SHALL BE 5'-6" BELOW FINISHED GRADE TO TOP OF MAINS UNLESS NOTED OTHERWISE.
 2. ALL EXISTING UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT ELEVATION OR LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES.
 3. THE UNDERGROUND UTILITY INFORMATION AS SHOWN HERE ON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED.
 4. ALL SANITARY AND STORM SEWER LENGTHS SHOWN ARE CENTER OF MANHOLE TO CENTER OF MANHOLE OR STORM MANHOLE TO FES.
 5. PROVIDE CONCRETE COLLAR FOR ALL DRAINAGE STRUCTURES IN PAVEMENT, NOT ADJACENT TO CURB. SEE CONCRETE COLLAR DETAIL ON DETAIL SHEET.
 6. CONTRACTOR SHALL CORE AND BOOT ALL PIPE ENTRANCES TO EXISTING SANITARY MANHOLES.
 7. EXTERNAL CHIMNEY SEALS ARE REQUIRED ON PROPOSED AND ADJUSTED EXISTING SANITARY MANHOLES.
 8. SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETED FROM THIS PLAN FOR CLARITY. SEE DEMOLITION PLAN FOR ITEMS DELETED.
 9. ALL D.I. WATERMAIN FITTINGS SHALL BE WRAPPED.



PROPOSED RETAIL DEVELOPMENT

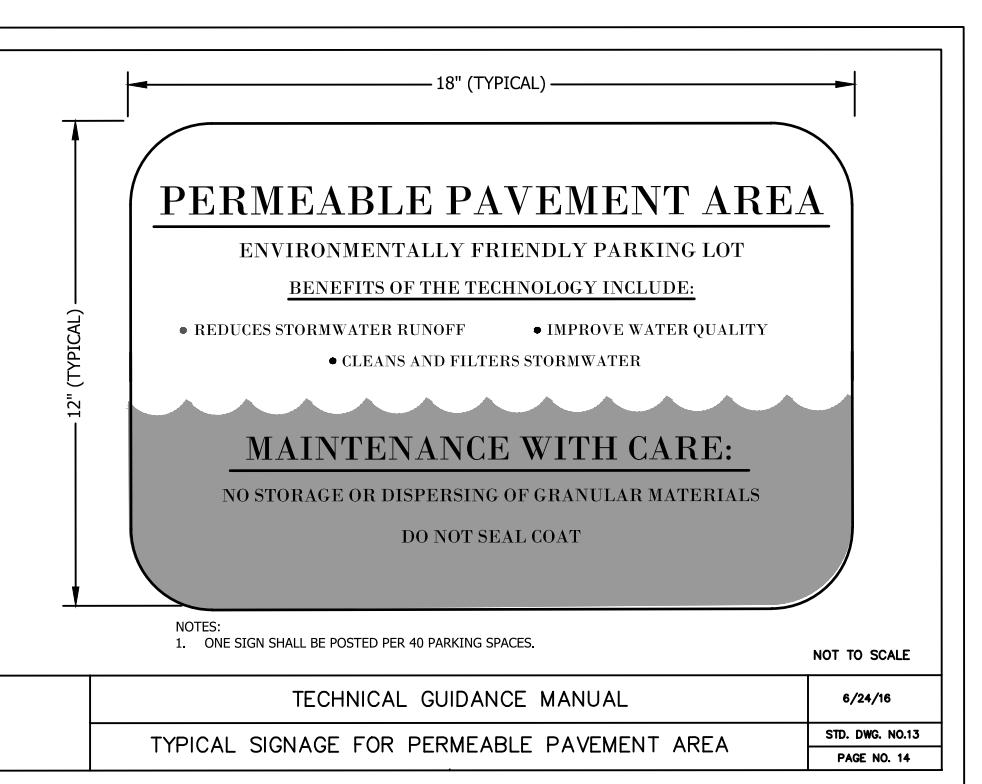
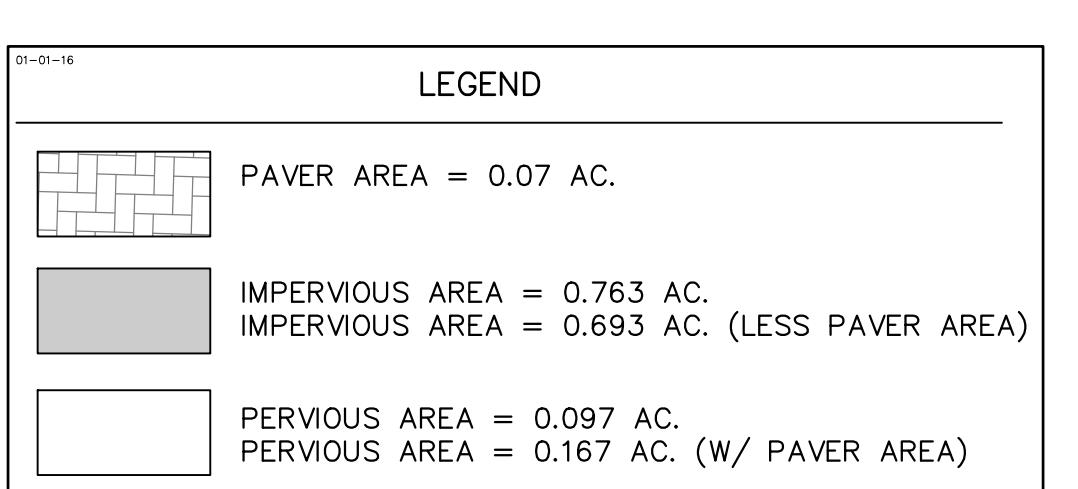
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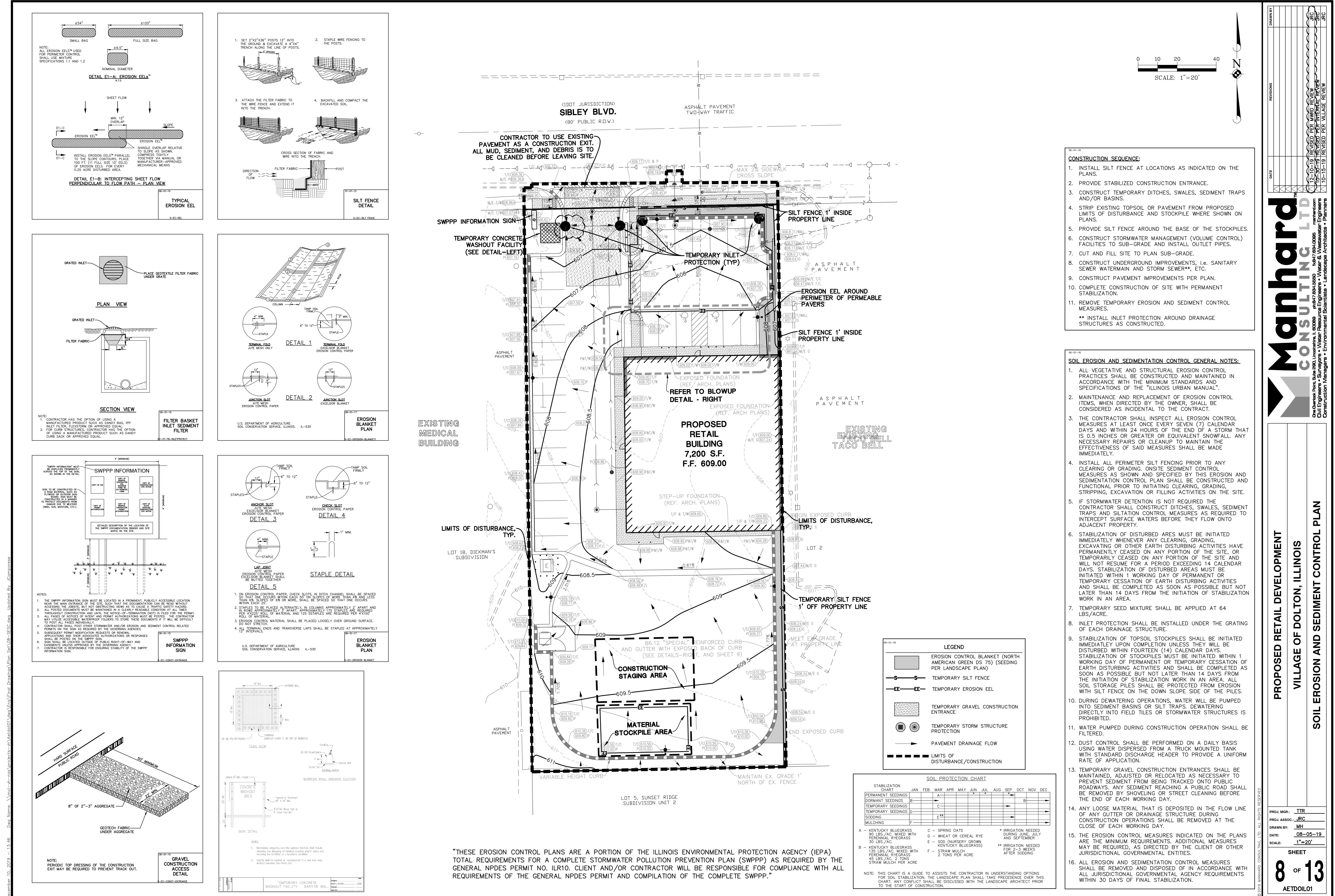
PROPOSED RETAIL DEVELOPMENT

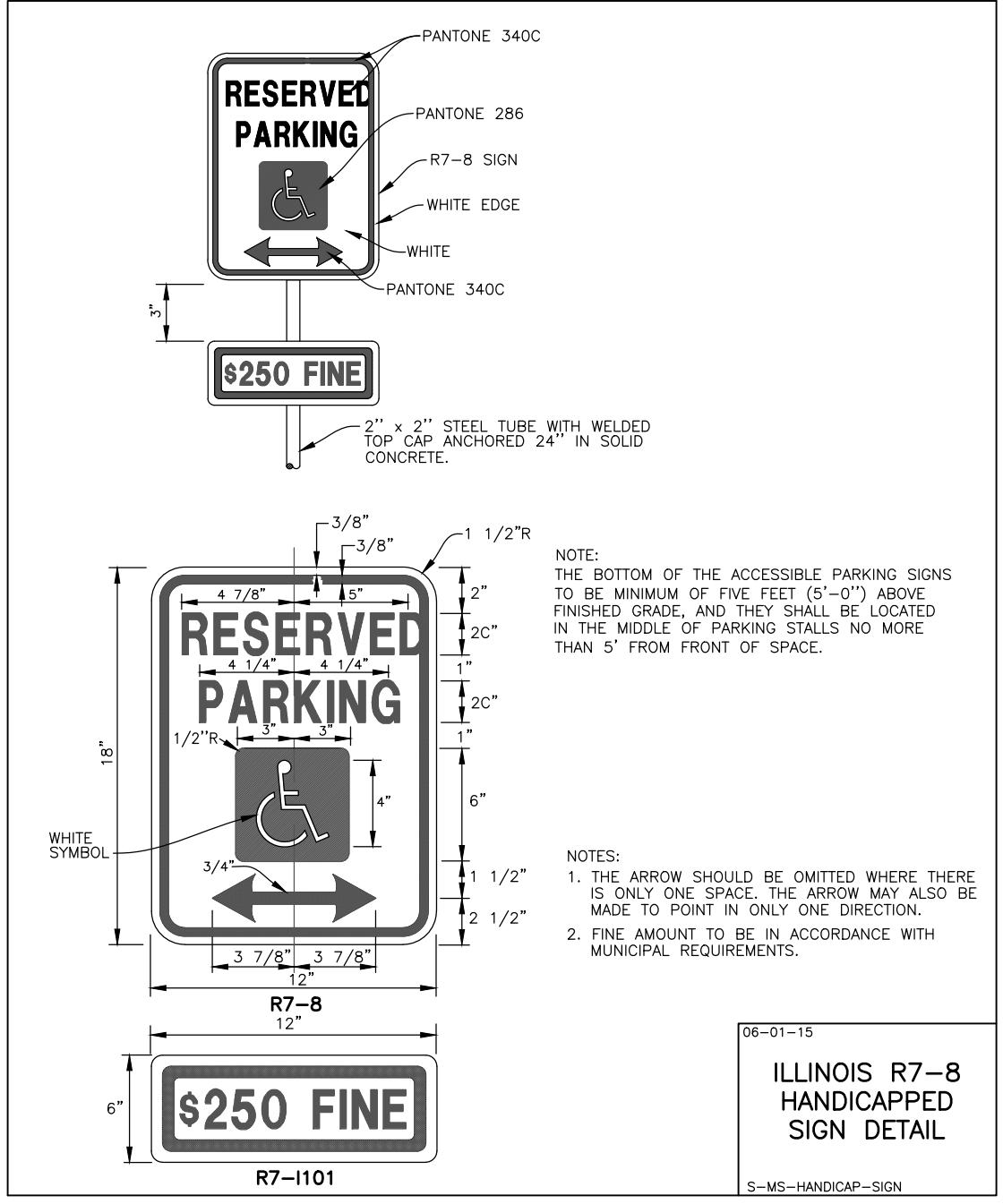
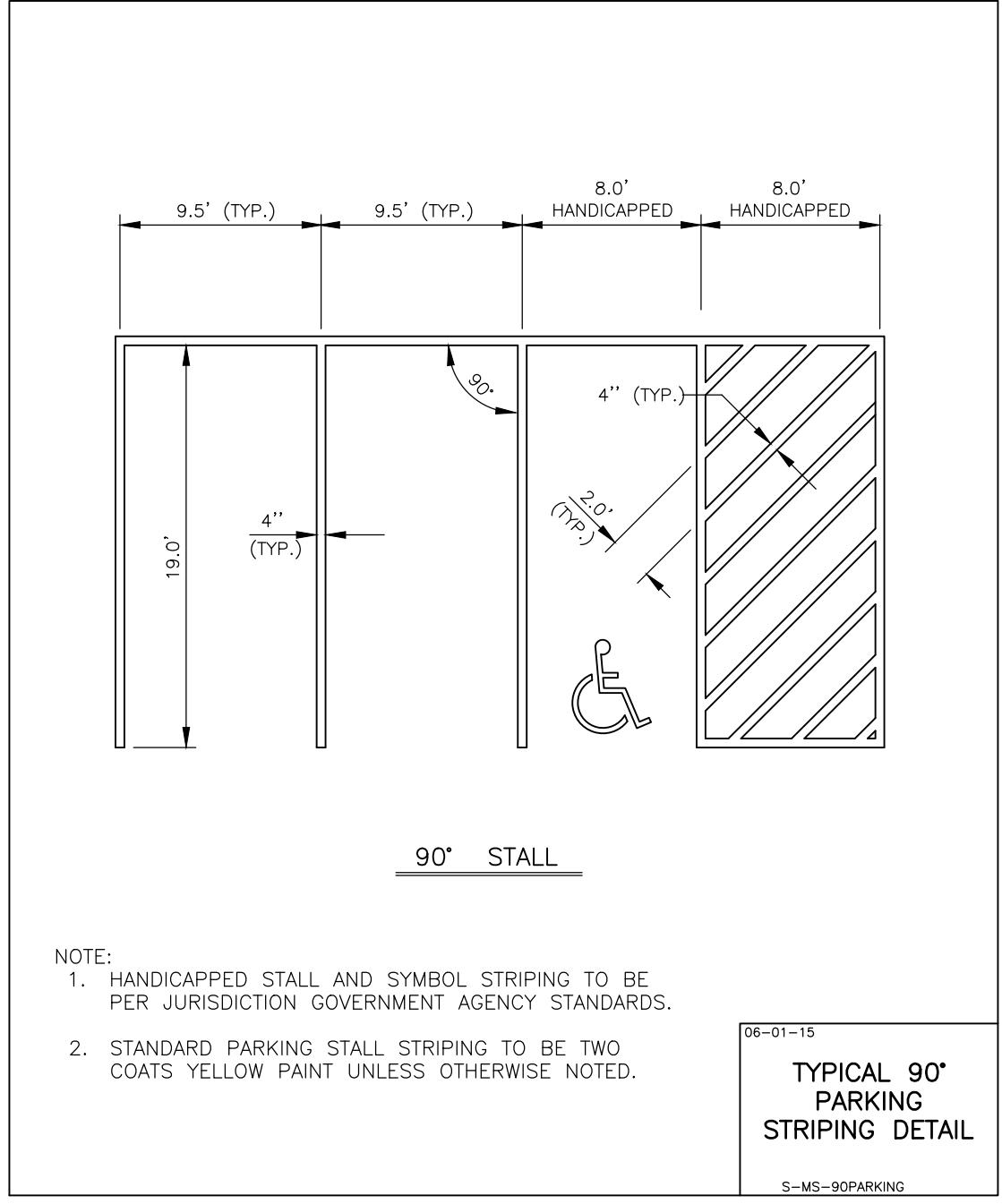
MWRRD EXHIBIT

-01-16	
VOLUME CONTROL REQUIREMENT	
SITE AREA	0.86 ACRES
SITE IMPERVIOUS AREA	0.693 ACRES
VOL CONTROL REQUIRED	$\begin{aligned} &= (0.693) * (0.083) \\ &= 0.0575 \text{ AC-FT} \\ &= 2,504.44 \text{ CF} \end{aligned}$
VOL CONTROL PROVIDED	$= 2,716.33 \text{ CF}$

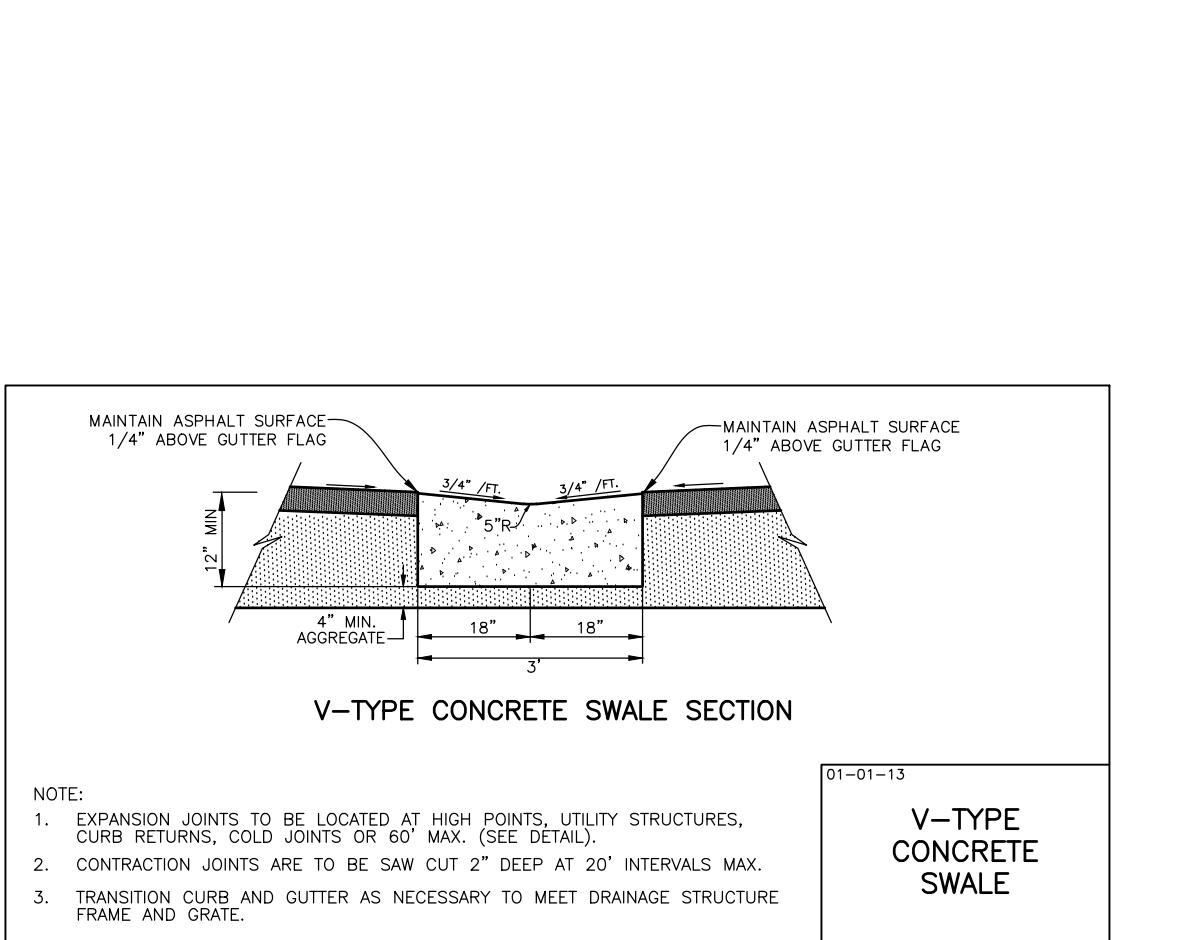
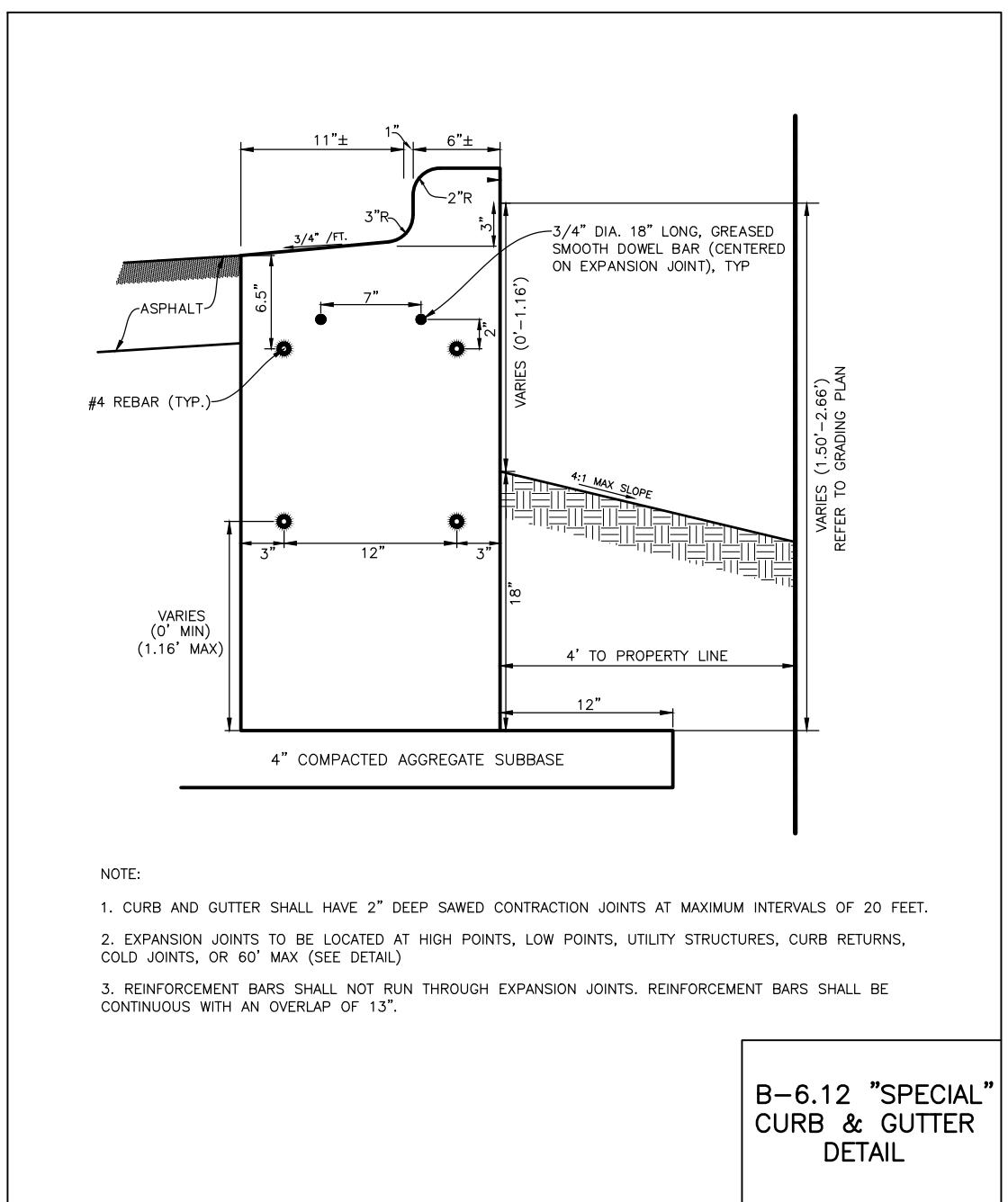
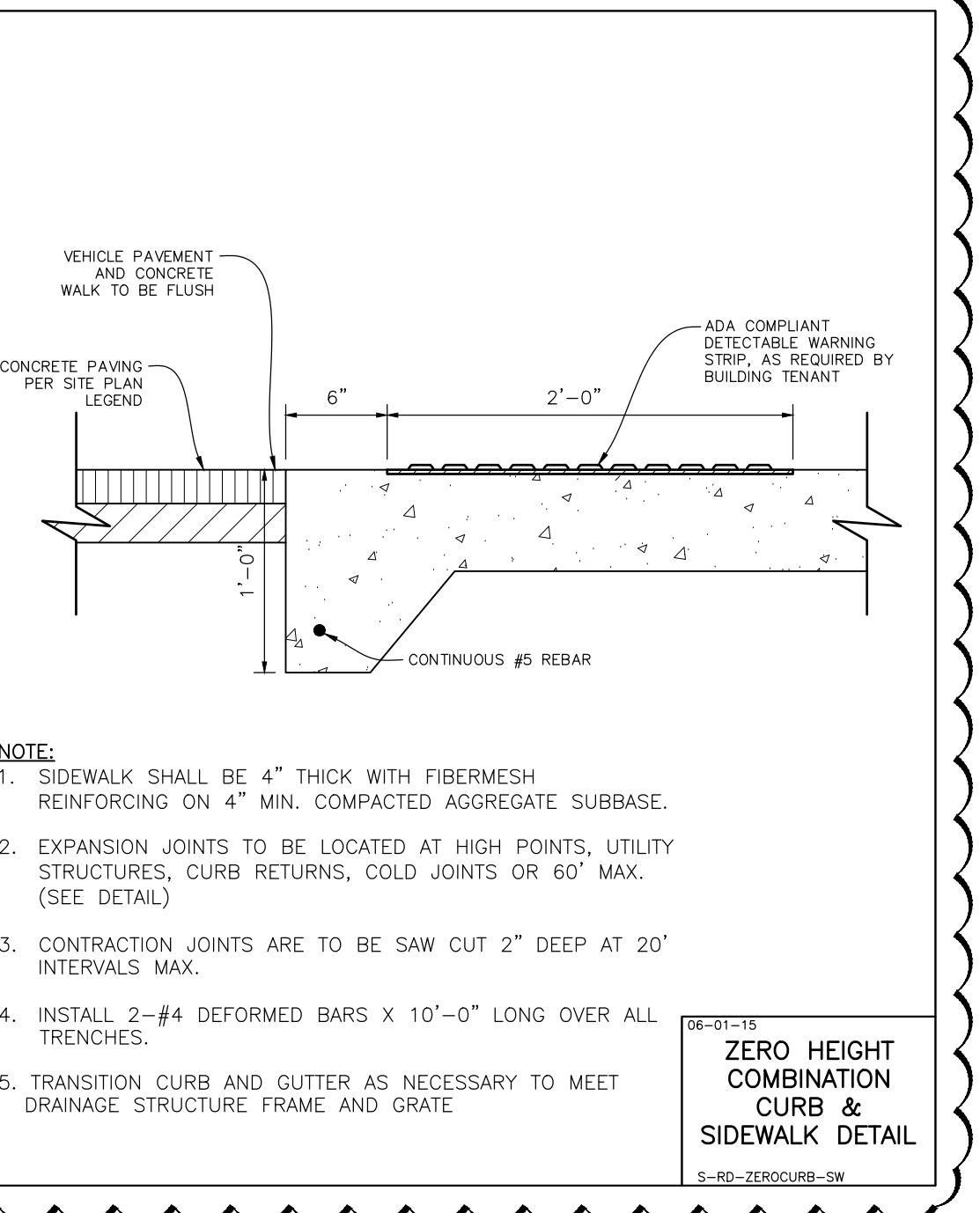
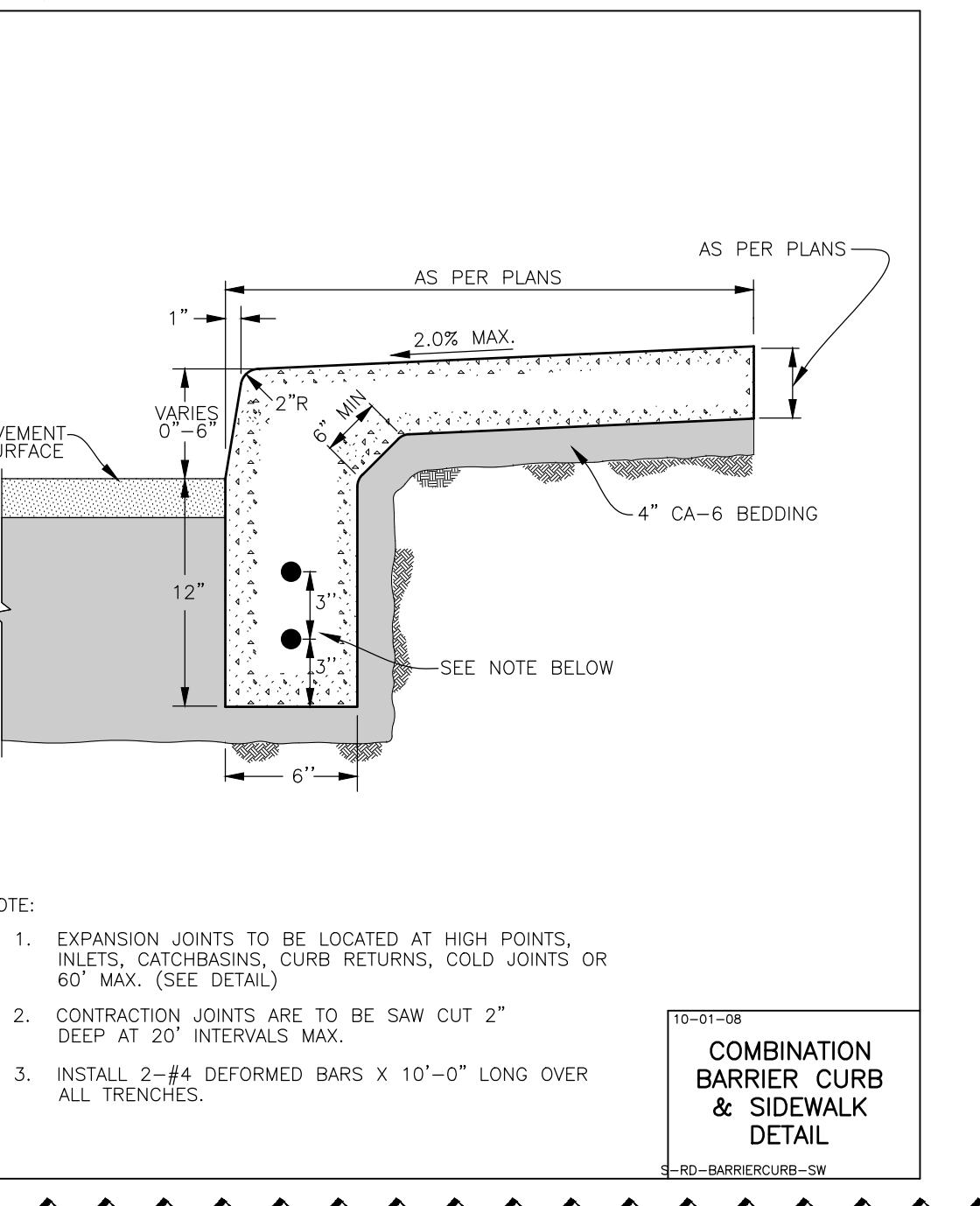
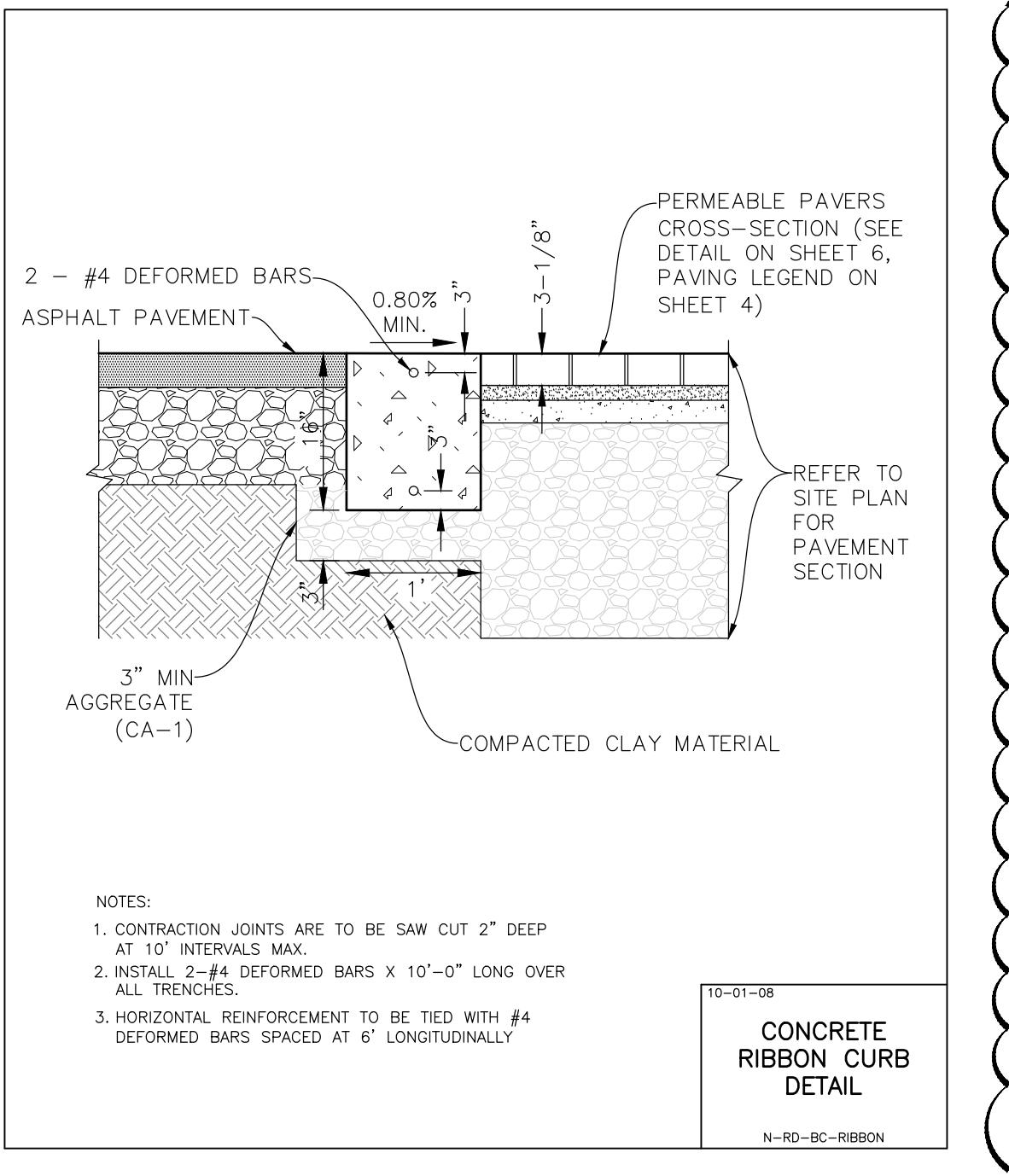
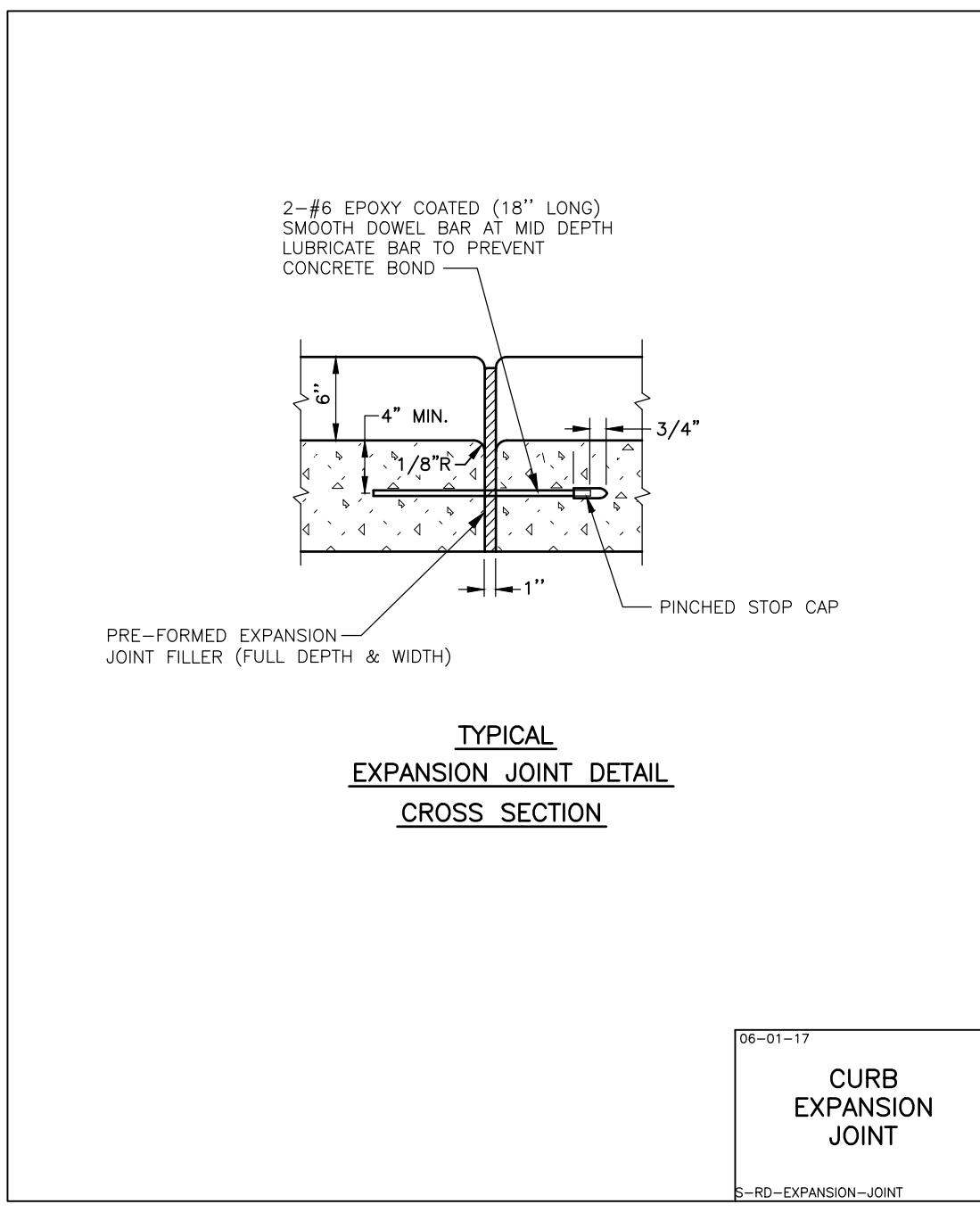
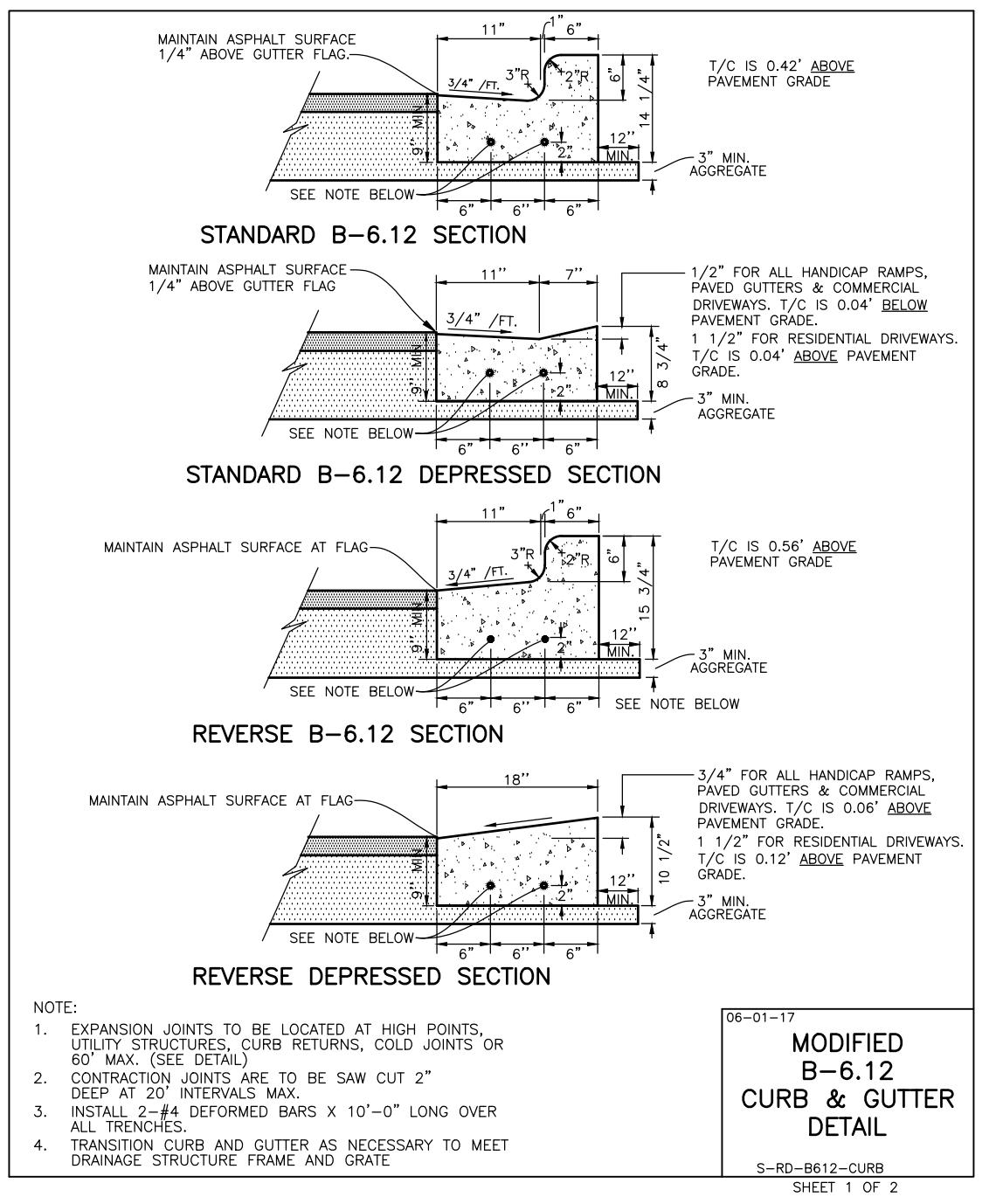
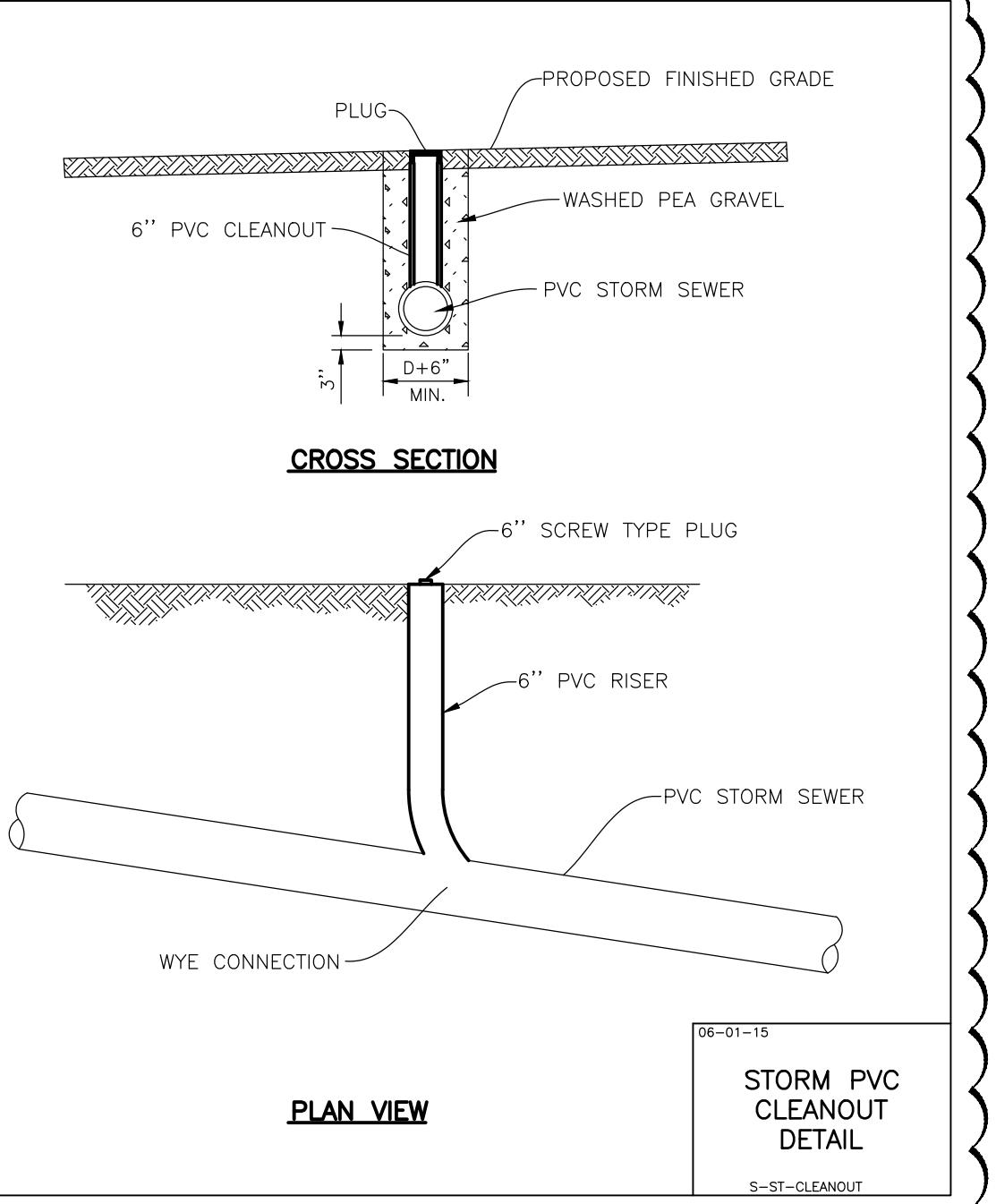
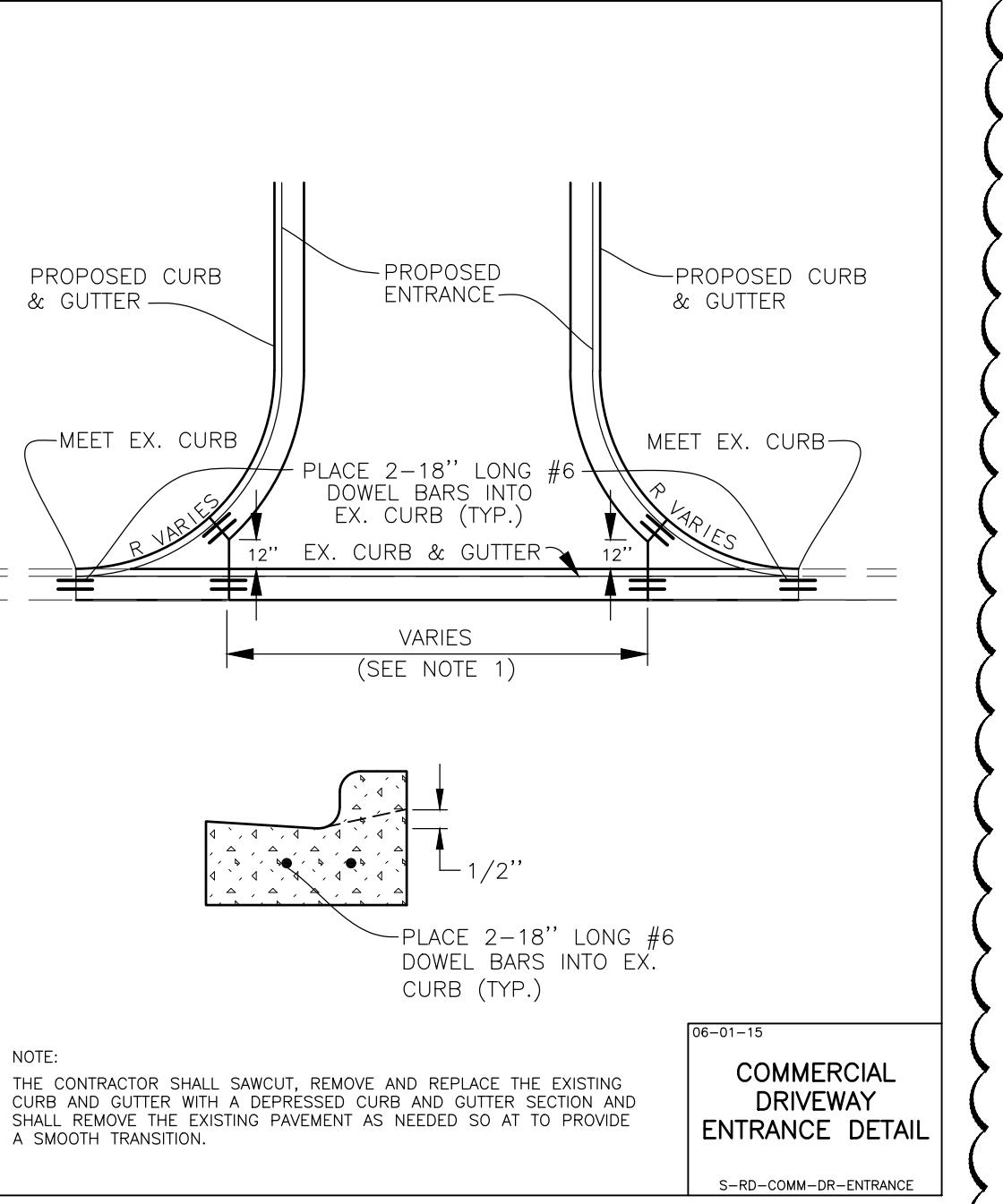
MAINTENANCE SUMMARY

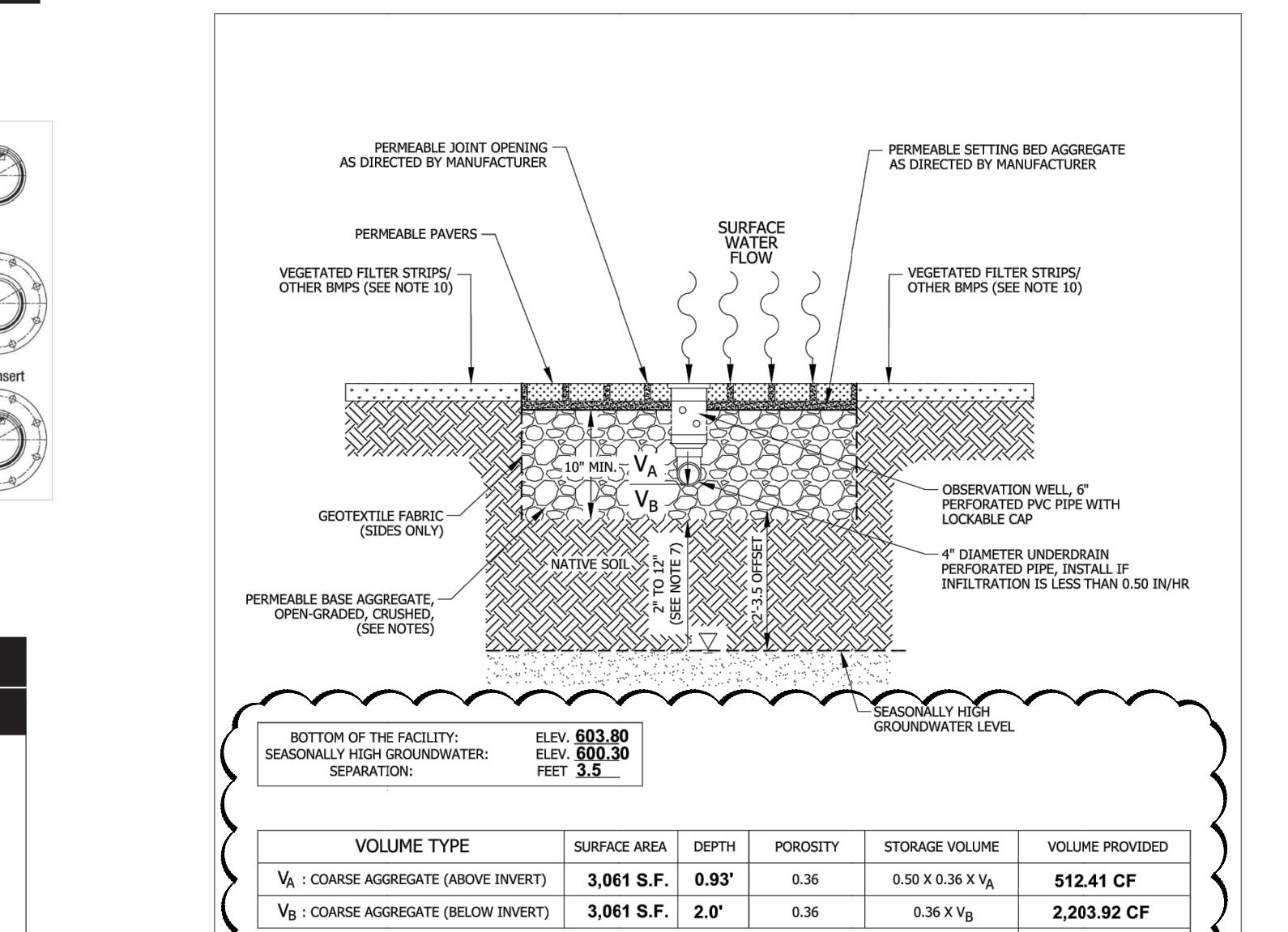
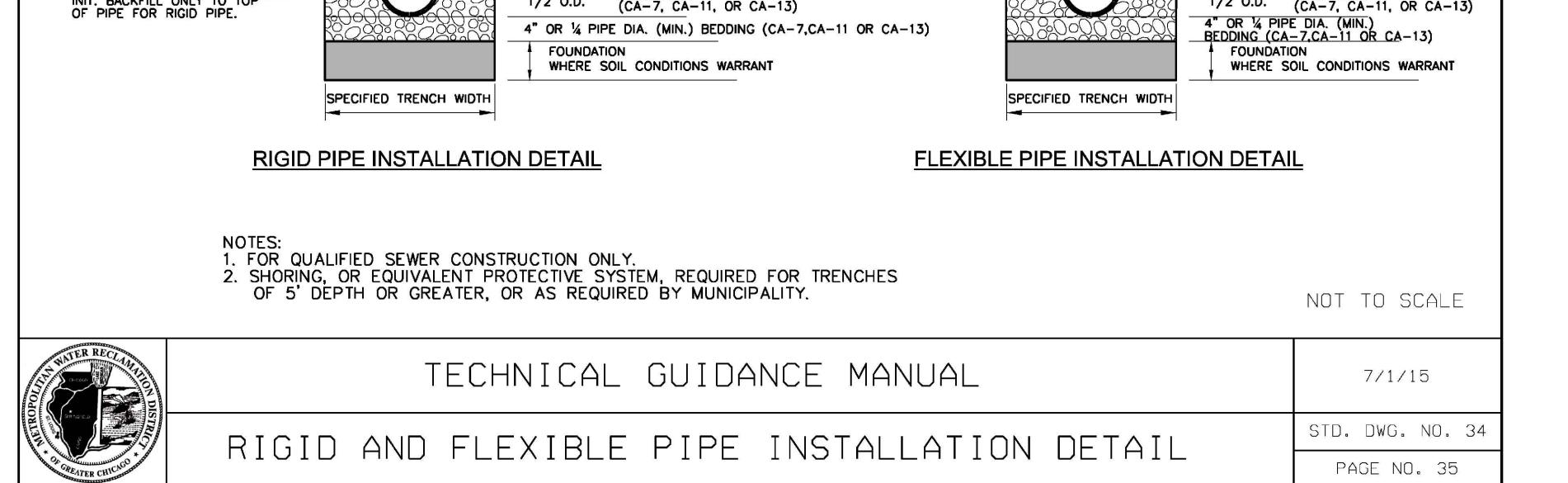
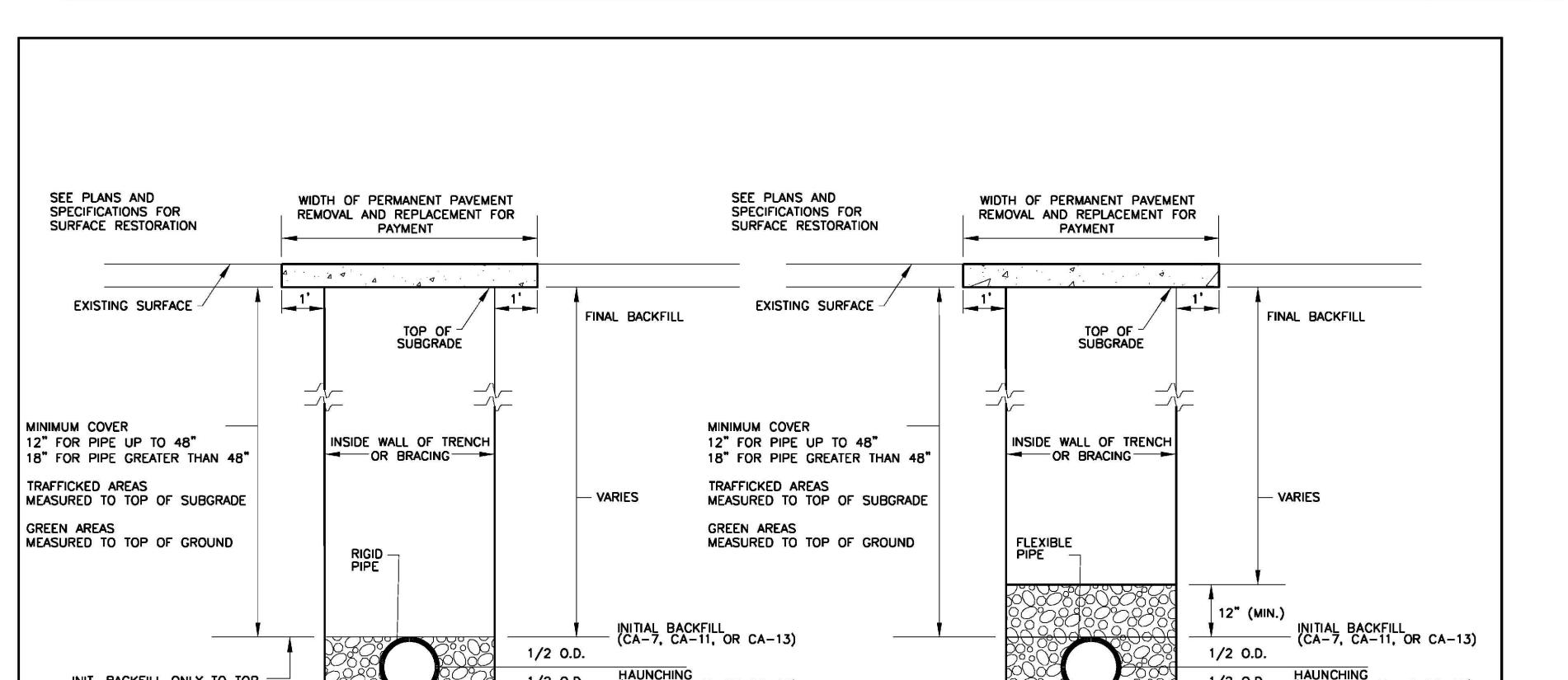
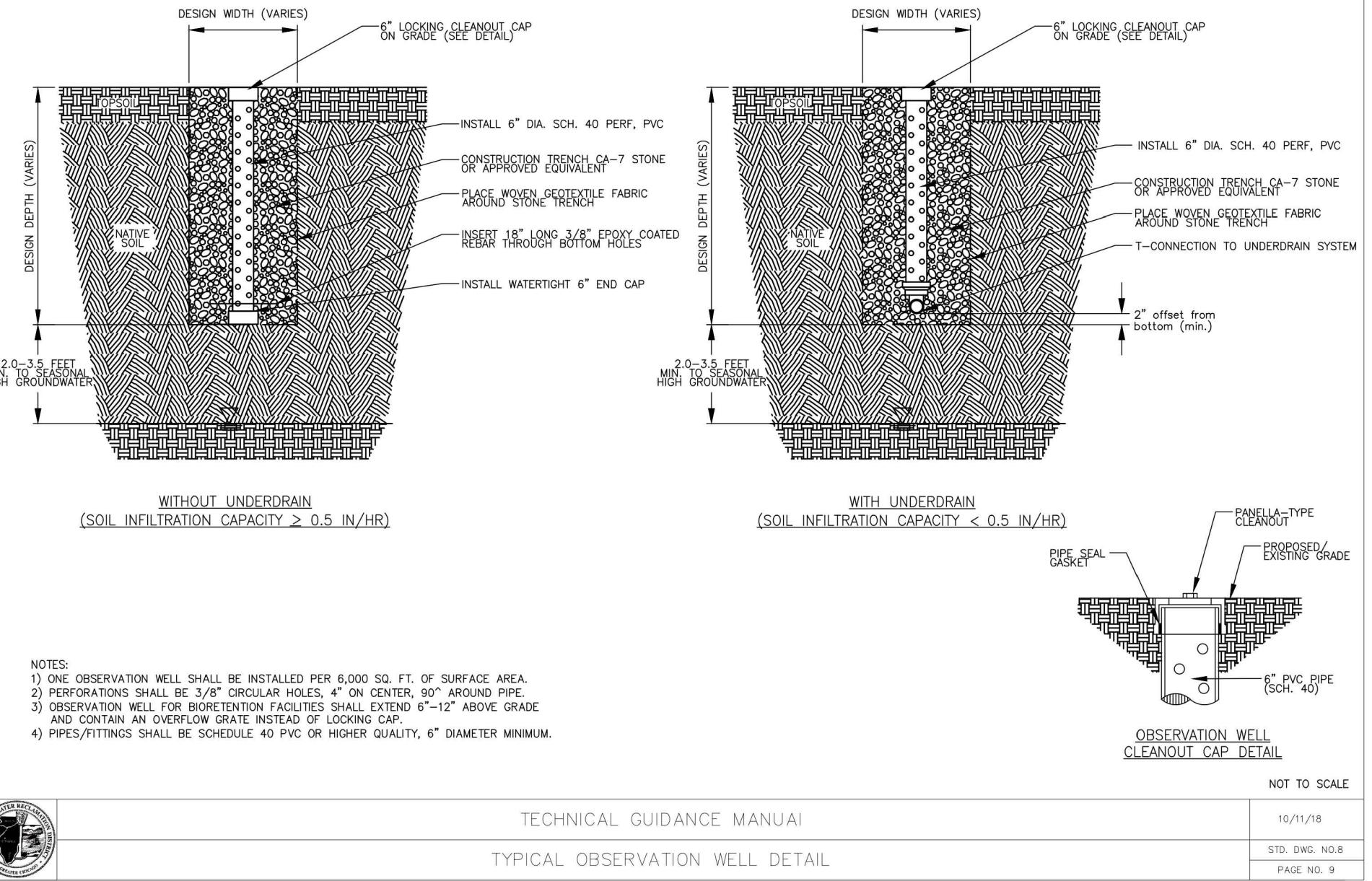
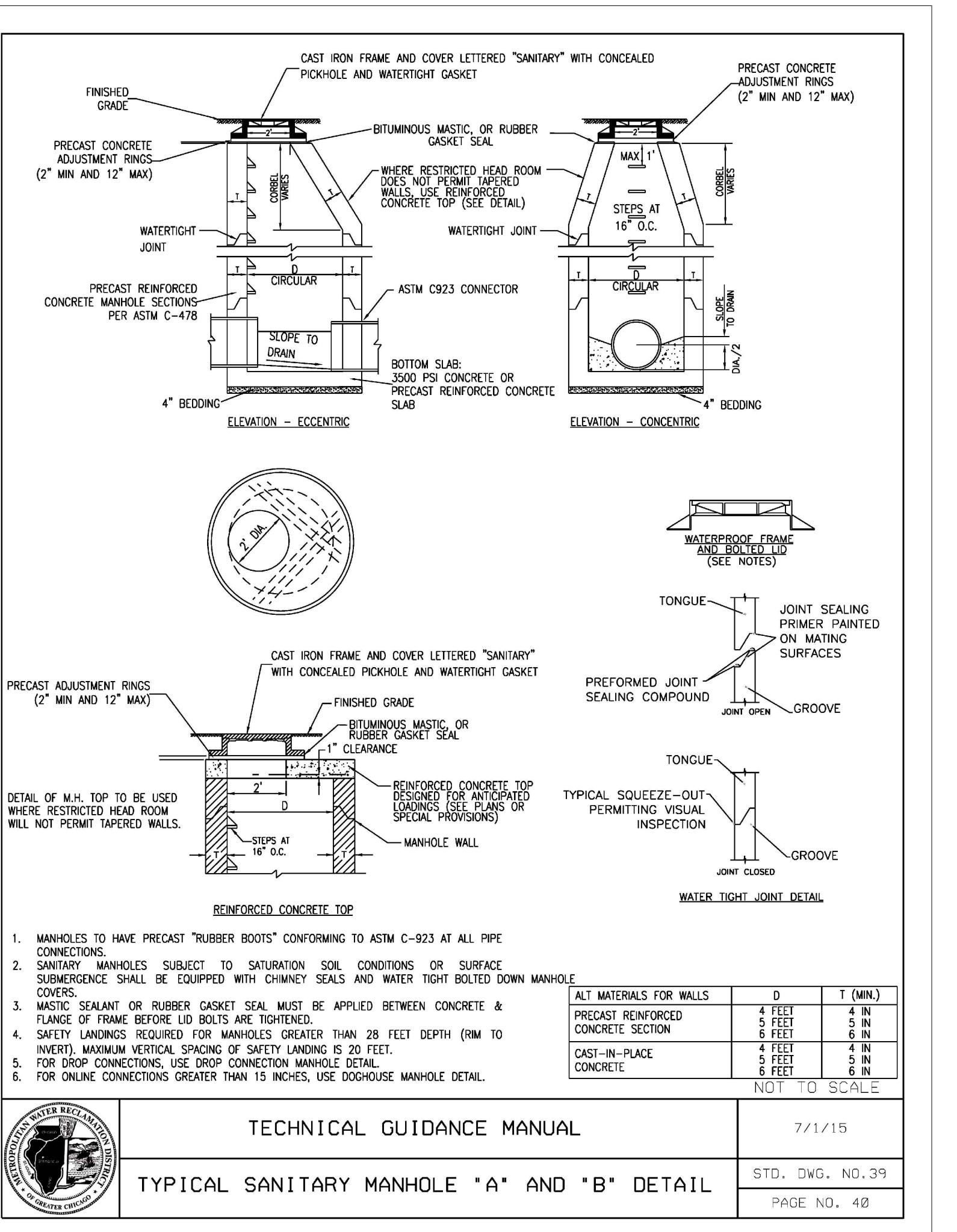
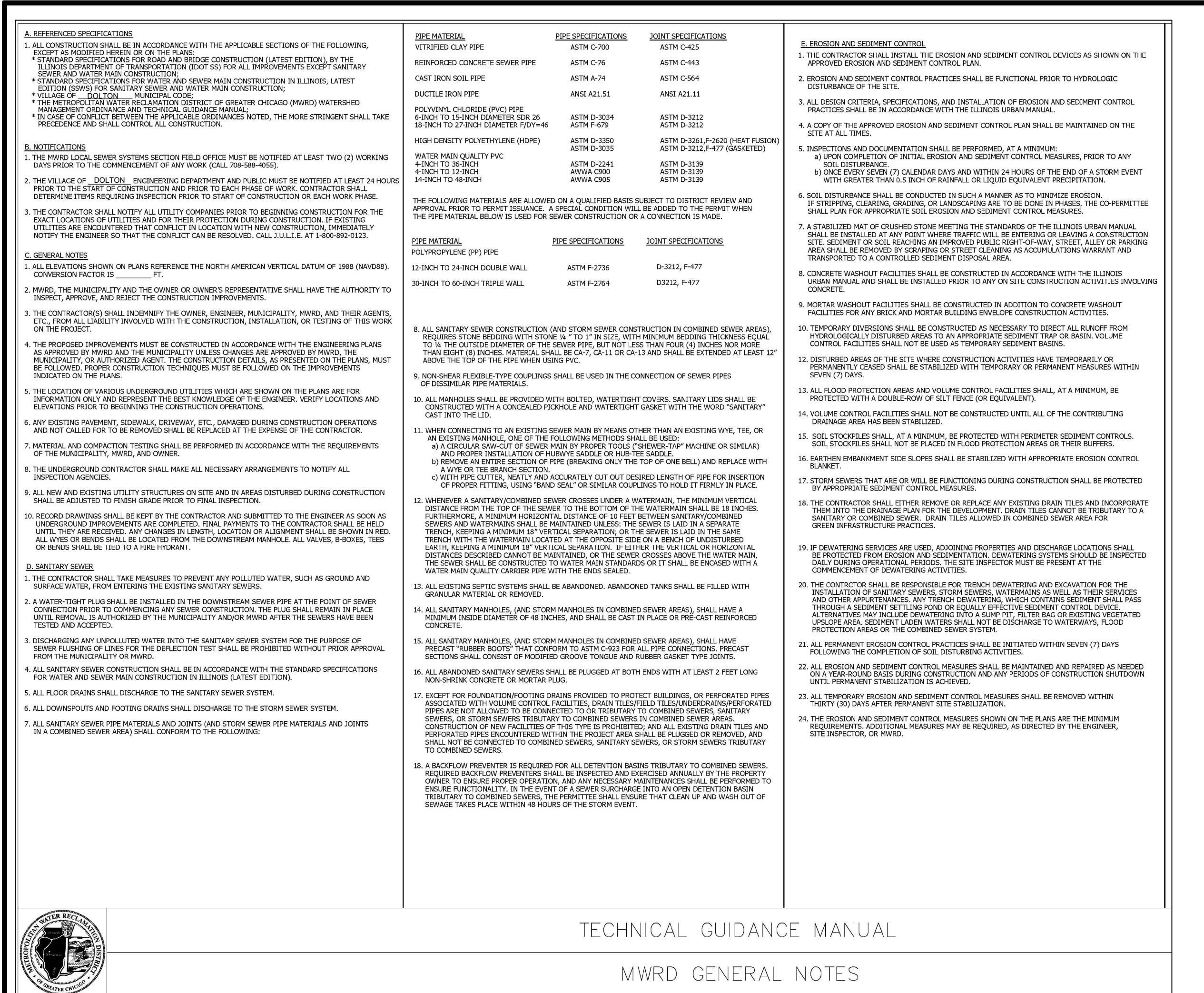






MATERIAL STANDARDS		
ITEM	BRAND	PRODUCT
<u>FIRE HYDRANTS</u> (TRAFFIC MODEL)	MUELLER SUPER CENTURION WATEROUS PACER	A-423 WB-67
<u>GATE VALVES</u> SPECIFY SIZE NON-RISING STEM, 2" NUT, M.J., OPEN LEFT	MUELLER (SIZE) AMERICAN FLOW CONTROL	A-2360-20L SERIES 2500
<u>VALVE BOXES</u> 3 PIECE	EAST JORDAN TYLER/UNION	SCREW ADJUSTING EXTENSION TYPE
<u>CURB STOPS</u> (SPECIFY SIZE)	MUELLER FORD	300 BALL VALVE BALL VALVE
<u>CORPORATION VALVE</u> (SPECIFY SIZE)	MUELLER FORD	H-15000 FB600 (AWWA/CC THREAD)
<u>MANHOLES/CATCHBASINS/INLETS</u> IN OPEN AREAS AND PAVEMENT (SELF-SEALING LID WITH PROPER UTILITY MARKINGS)	NEENAH CLOSED LID OPEN LID *1 SWALES AND DITCHES	R-1772 R-2502 C R-4340 B
<u>MANHOLES/CATCH BASINS/INLETS</u> IN COMBINATION CURB & GUTTER (BICYCLE SAFE)	NEENAH ROLL/MOUNTABLE CURB B6.12 CURB	R-3501-D2A R-3281A *-3281-AL
<u>WATER SERVICE SADDLES</u> (ALL SERVICE SADDLES SHALL BE DOUBLE STRAP; BRONZE, NYLON COATED OR STAINLESS STEEL)	MUELLER FORD SMITH-BLAIR 3/4" & 1"	DR2S FS 303 # 317
<u>B-BOX</u> (AT LEAST 1 1/4" TOP SECTION) ARCH PATTERN PLUG STYLE LID	FORD MUELLER	EA2 CURB BOX
 *1 WHEREVER STORMWATER COULD POSSIBLY ENTER STORM STRUCTURE		06-01-15
		MATERIAL STANDARDS
		S-MS-MATERIALSTNDS





SHOULD A CONFLICT ARISE BETWEEN MANHARD DETAILS AND THE VILLAGE DETAILS, THE VILLAGE DETAILS SHALL TAKE PREFERENCE

PROPOSED RETAIL DEVELOPMENT

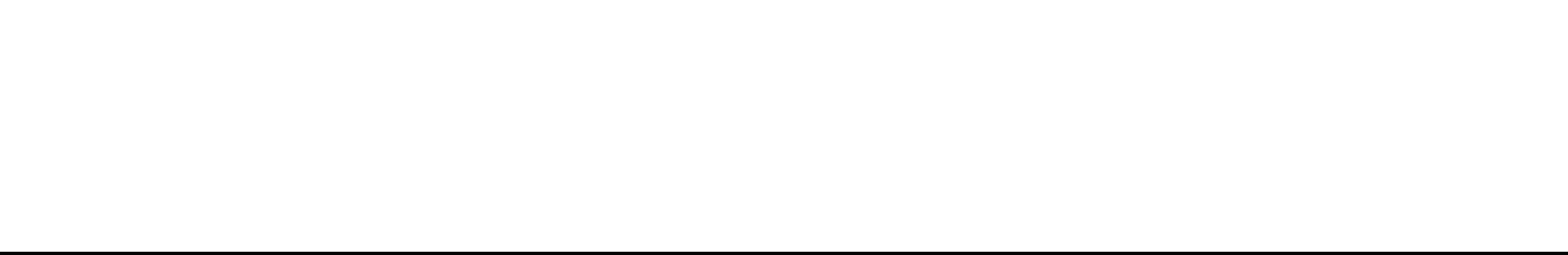
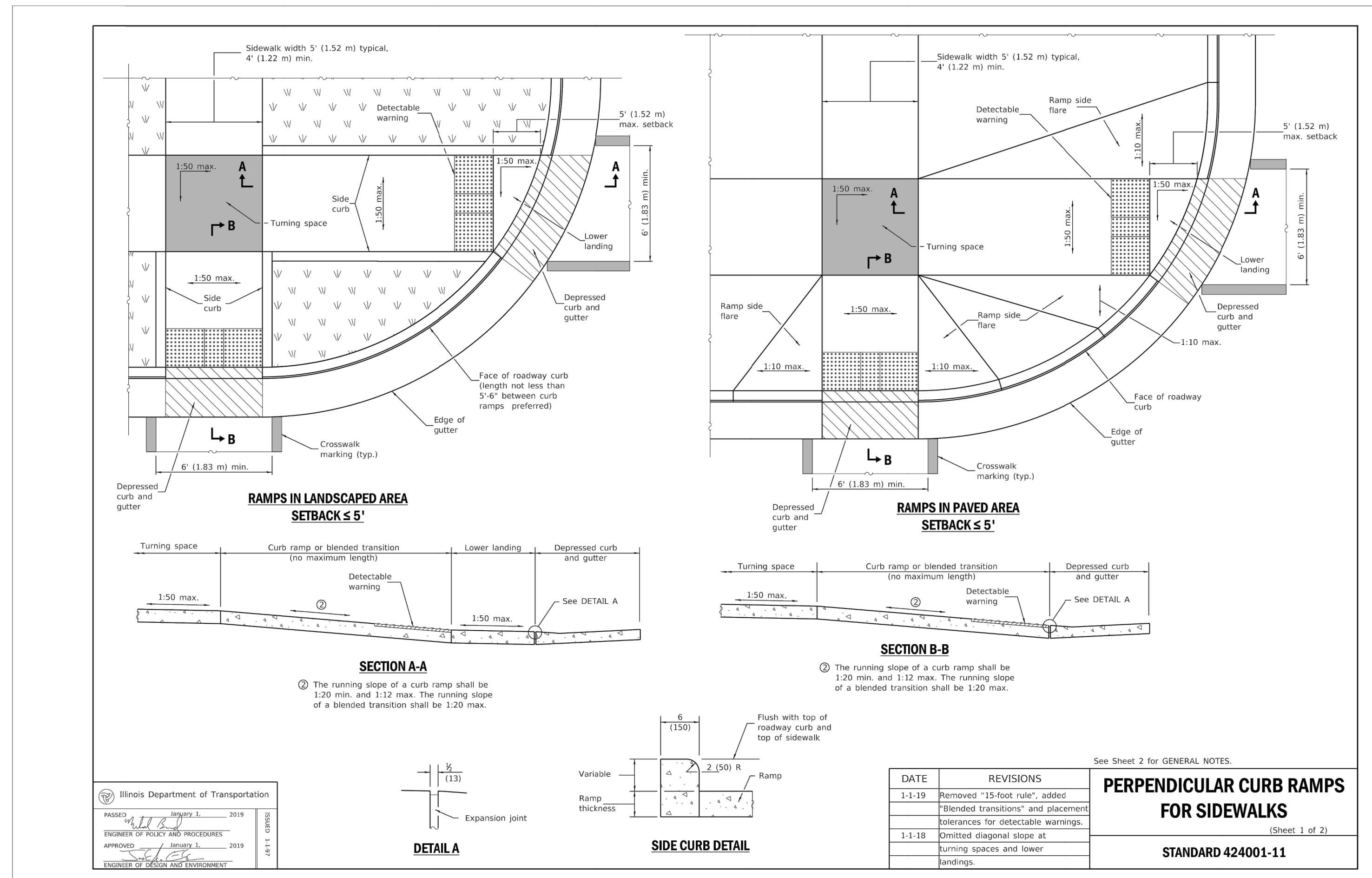
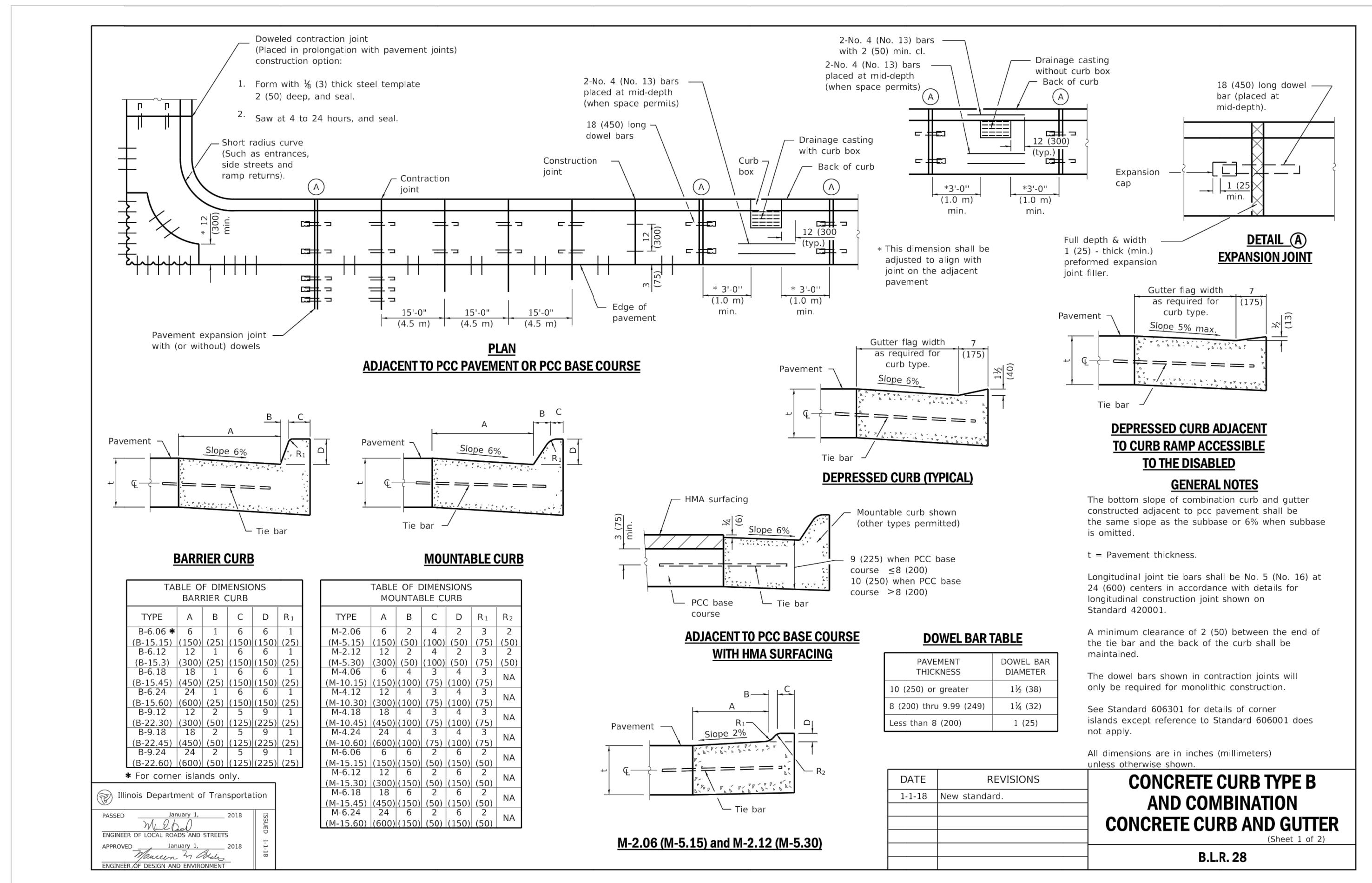
VILLAGE OF DOLTON, ILLINOIS

CONSTRUCTION DETAILS

PROJ. MGR.: TTR
PROJ. ASSOC.: JRC
DRAWN BY: _____
DATE: 08-05-19
SCALE: N.T.S.
SHEET: _____

12 OF 13
AETDOILO1

SHOULD A CONFLICT ARISE BETWEEN MANHARD DETAILS AND THE VILLAGE DETAILS, THE VILLAGE DETAILS SHALL TAKE PRECEDENCE.



MANHARD CONSULTING, LTD. STANDARD SPECIFICATIONS

GENERAL CONDITIONS

- CONTRACTOR acknowledges and agrees that the use and reliance of these Plans and Specifications is sufficient consideration for CONTRACTOR's covenants stated herein.
- TERMS OF CONTRACT**
- a. "CLIENT" shall mean AETNA DEVELOPMENT CORP., which is the person or entity with whom Manhard Consulting, Ltd. has contracted with to prepare Civil Engineering PLANS and SPECIFICATIONS.
 - b. "ENGINEER" shall mean Manhard Consulting, Ltd., a Civil Engineering consultant on the subject project.
 - c. "PPC" or "SPECIFICATIONS" shall mean the Civil Engineering PLANS and SPECIFICATIONS prepared by the ENGINEER, which may be a part of the contract documents for the subject project.
 - d. "CONTRACTOR" shall mean any person or entity performing any work described in the PLANS and SPECIFICATIONS.
 - e. "JURISDICTIONAL GOVERNING ENTITY" shall mean any municipal, county, state or federal unit of government from whom an approval, permit and/or review is required for any aspect of the subject project.

INTENT OF THE PLANS AND SPECIFICATIONS

The intent of the PLANS and SPECIFICATIONS is to set forth certain requirements of performance, type of equipment and structures, and standards of materials and construction. They may also identify labor and materials, equipment and transportation necessary for the proper execution of the work but are not intended to be infinitely determinate so as to include minor items usually required as part of the work. The PLANS and SPECIFICATIONS require new material and equipment unless otherwise indicated, and to require complete performance of the work in spite of omissions of specific references to any minor component parts. It is the intent of the CONTRACTOR that materials or work not covered by or properly inferred from any heading, branch, class or trade of the SPECIFICATIONS shall be supplied under subcontracted work. Materials or work described in words, which so applied have a well-known technical or trade meaning, shall be referred to such recognized standards.

INTERPRETATION OF PLANS AND SPECIFICATIONS

- a. The CLIENT and/or CONTRACTOR shall promptly report any errors or ambiguities in the PLANS and SPECIFICATIONS to the ENGINEER. Questions as to meaning of PLANS and SPECIFICATIONS shall be interpreted by the ENGINEER, whose decision shall be final and binding on all parties concerned.
- b. The ENGINEER will provide the CLIENT with such information as may be required to show revised or additional details of construction.
- c. Should any discrepancies or conflicts on the PLANS or SPECIFICATIONS be discovered either prior to or after award of the contract, the ENGINEER's attention shall be called to the same before the work is begun thereon and the proper corrections made. Neither the CLIENT nor the CONTRACTOR may take advantage of any error or omission in the PLANS and SPECIFICATIONS. The ENGINEER will provide information when errors or omissions are discovered.

GOVERNING BODIES

All work to be performed shall be completed in accordance with all requirements of any JURISDICTIONAL GOVERNING ENTITY, and all such pertinent laws, directives, ordinances and the like shall be considered to be a part of these SPECIFICATIONS. If a discrepancy is noted between the PLANS and SPECIFICATIONS and requirements of any JURISDICTIONAL GOVERNING ENTITY, the CLIENT and/or the CONTRACTOR shall immediately notify the ENGINEER in writing.

LOCATION OF UNDERGROUND FACILITIES AND UTILITIES

When the PLANS and SPECIFICATIONS include information pertaining to the location of existing underground facilities and utilities (including but not limited to water mains, sanitary sewers, storm sewers, electric, telephone, gas and cable TV lines), such information represents only the opinion of the ENGINEER as to the approximate location and nature of such facilities and utilities. All locations where detailed positions of these facilities and utilities have been noted on the PLANS and SPECIFICATIONS shall be determined by the CONTRACTOR and located to the best of his ability, and the horizontal location, elevation, size and material (if appropriate) of the facility and utility. The CONTRACTOR shall notify the ENGINEER at least 48 hours prior to construction if any discrepancies in existing utility information or conflicts with existing utilities exist. The ENGINEER reserves no responsibility whatever with respect to the sufficiency or accuracy of the information shown on the PLANS and SPECIFICATIONS relative to the location of underground facilities and utilities, nor the manner in which they are removed or adjusted.

It shall be the CONTRACTOR's responsibility prior to construction, to notify all Utility Companies of the intent to begin construction and to verify the actual location of all such facilities and utilities. The CONTRACTOR shall also obtain from the respective Utility Companies the working schedules for removing or adjusting these facilities.

UNSUITABLE SOILS

The soils to be used shall be selected by the ENGINEER based on the assumption that all soils on the project are suitable to support the proposed improvements shown. The CLIENT or CONTRACTOR shall immediately notify the ENGINEER if he discovers or encounters an obstruction that prevents the installation of the improvement according to the line and grades shown on the PLANS.

PROTECTION OF TREES

All trees that are not to be removed shall be protected from damage. Trees shall not be removed unless requested to do so in writing by the CLIENT.

NOTIFICATION OF OWNERS OF FACILITIES AND UTILITIES

The CONTRACTOR shall notify all applicable Jurisdictional Governmental Entities or utility companies, i.e., water, sewer, electric, telephone, gas and cable TV prior to beginning any construction so that said entity or company can establish the location and elevation of underground pipes, conduits or cables adjoining or crossing proposed construction.

TRAFFIC CONTROL

The CONTRACTOR shall provide when required by any JURISDICTIONAL GOVERNING ENTITY, all signs, equipment, and personnel necessary to provide for safe and efficient traffic flow in all areas where the work will interrupt, interfere or cause to change in any form, the conditions of traffic flow that existed prior to the commencement of any portions of the work. The CLIENT may, at his discretion, request the CONTRACTOR to furnish traffic control under these circumstances in which it is necessary for the protection of life and property. Emergency vehicle access shall be maintained at all times. Unless authorized by the CLIENT or CLIENT's construction representative, all existing access points shall be maintained at all times by the CONTRACTOR. The need for traffic control shall be anticipated by the CLIENT.

WORK AREA

The CONTRACTOR, his agents and employees and all equipment, machinery and vehicles shall confine their work within the boundaries of the project or work area specified by the Client. The CONTRACTOR shall be solely liable for damage caused by him or his agents and employees and their equipment, machinery and vehicles on adjacent property or areas outside designated work areas.

UTILITY POLES

It shall be the responsibility of the CONTRACTOR to arrange for the relocation or bracing of existing utility poles that may be within the working limits of the contract. It is expressly understood that all work and costs connected with the maintenance of these utility poles, their temporary relocations, etc., shall be the responsibility of the CLIENT and CONTRACTOR.

RESTORATION

It is the intent of these SPECIFICATIONS that cleanup and final restoration shall be performed immediately upon completion of each phase of the work, both inside and outside the Project, or when directed by the CLIENT so that these areas will be restored as nearly as possible to their original condition or better, and shall include but not be limited to, restoration of maintained lawns and rights-of-way, roadways, driveways, sidewalks, ditches, bushes, hedges, trees, shrubs, fences, mailboxes, sewers, drains, tiles, water mains, etc.

CLEANING UP

The CONTRACTOR shall maintain roadways adjoining the project site free from mud and debris at all times. If mud and/or debris is carried onto the roadways from vehicles entering onto the highway from either the CONTRACTOR's trucks, his employees' vehicles, or his material suppliers, the CONTRACTOR shall immediately remove said mud and/or debris.

SAFETY AND PROTECTION

The CONTRACTOR shall be solely and completely responsible for the conditions of the job site, including safety of all persons and property during performance of the work. The CONTRACTOR shall also be responsible for the safety of his employees and the safety of the public. The CONTRACTOR shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. CONTRACTOR's duties and responsibilities for safety and for protection of the work shall continue until such time as all work is completed and the CLIENT has notified CONTRACTOR that the work is acceptable. The duties of the ENGINEER do not include review of the adequacy of either the CONTRACTOR's or the general public's safety in, or near the construction site.

HOLD HARMLESS

To the fullest extent permitted by law, any CONTRACTOR, material supplier or other entity by use of these plans and specifications hereby waives any right of common law or statutory action to indemnify, block, defend and hold harmless the CLIENT and ENGINEER and its agents, employees and consultants from and against all manner of claims, causes, losses or expenses, including but not limited to, attorney fees arising out of, resulting from or in connection with the performance of any work, or with respect to these plans and specifications. However, this indemnity shall not be construed to indemnify ENGINEER, its consultants, agents or employees against its own negligence.

Claims, damages, losses and expenses as these words are used in the Agreement shall mean and include, but not be limited to (1) injury or damage occurring by reason of the failure or use or misuse of any rigging, blocking, scaffolding or any form or all other kinds of items of equipment, whether or not caused by the negligence of the client or any party, or by the negligence of any part of the project, including the contractor, (2) all attorneys' fees and costs incurred in bringing an action to enforce the terms of the contract, (3) all expenses incurred by the client or any party in defending itself against any claim, and (4) consequential damages.

In any and all claims against the CLIENT or ENGINEER or any of their agents or employees and consultants by any party, including any employee of the CONTRACTOR or any Subcontractor, anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, the indemnification obligation shall be limited in any way by limitation on the amount of type of damages, compensation or benefits payable by or for the CONTRACTOR or any Subcontractor under workers' or workers' compensation acts, disability benefit acts or other employee benefit acts or any insurance maintained by CONTRACTOR or any Subcontractor or any other party.

INSURANCE

Any party using or relying on these plans, including any contractor, material supplier, or other entity shall obtain, (prior to commencing any work) general liability insurance insuring against all damages and claims for any bodily injuries, death or property damage arising out of any work, including the construction work provided for in these plans, and shall name the CLIENT and ENGINEER and his consultants, agents and representatives as additional insureds under such insurance policy; provided that any party using or relying on these plans having obligations to maintain specific insurance by reason of any agreement with CLIENT or any CONTRACTOR or ENGINEER shall provide evidence and certificates of insurance as required by such contract or agreement. Such insurance must contain a clause stating that the insurance is primary coverage for ENGINEER and ENGINEER's other applicable coverage is considered secondary. Such insurance shall not limit any liability of any party providing work or services or providing materials.

THIRD PARTY BENEFICIARY

Manhard Consulting, Ltd., the ENGINEER, is intended to be a third party beneficiary of this willing agreement and requirement.

Note: These Specifications are for Northern Illinois.

DETAILED SPECIFICATIONS

I. DEMOLITION

The CONTRACTOR shall coordinate with the utility companies prior to the removal and/or relocation of utilities. The CONTRACTOR shall coordinate with the utility companies prior to the removal and/or relocation of utilities. The CONTRACTOR shall coordinate with the utility company for their service. The CONTRACTOR is responsible for the removal of all utility lines.

Should removal and/or relocation activities damage features indicated to remain, the CONTRACTOR shall provide new materials/structures in accordance with the contract documents. Except for materials to be retained to be relocated on this plan, all other construction materials shall be new.

Prior to demolition occurring, all erosion control devices are to be installed.

All existing utility lines and conduits located under proposed buildings shall be removed and properly backfilled. All utility lines and conduits located under drives, on-site roads, parking lots or walkways shall be filled with a flexible backfill and end plugged. All existing structures shall be removed. All existing utility lines located under landscape areas shall be left in place and plaged at all structures.

The CONTRACTOR is responsible for demolition, removal and disposal in a location approved by all JURISDICTIONAL GOVERNING ENTITIES of all structures, pads, walls, flumes, foundations, road, parking facilities, drainage structures, utilities, etc., such that the improvements shown on these plans can be constructed. All demolition shall be in accordance with all applicable federal, state and local requirements. All facilities to be removed shall be undercut to suitable material and brought to grade with suitable compacted fill material per the specification.

The CONTRACTOR is responsible for obtaining all permits required for demolition and disposal.

Electrical, telephone, cable, water, fiber optic cable and/or gas line needing to be removed shall be coordinated by the CONTRACTOR with the affected utility company. CONTRACTOR must protect the AST at all times with fencing, barricades, enclosures, and other appropriate best management practices.

Continuous access shall be maintained for surrounding properties at all times during demolition.

All fire access lanes within the project area shall remain in service, clean of debris, and accessible for use by emergency vehicles.

The CONTRACTOR shall coordinate water main with the Fire Department and the JURISDICTIONAL GOVERNING ENTITY to plan the proposed improvements and to ensure adequate fire protection with the JURISDICTIONAL GOVERNING ENTITY during construction. Any costs associated with water main shut offs will be the responsibility of the CONTRACTOR and no extra compensation will be provided.

CONTRACTOR shall maintain all existing parking areas, sidewalks, drives, etc. clear and free from any construction activity and/or material to ensure easy and safe pedestrian and vehicular traffic to and from the site. CONTRACTOR shall coordinate/phase all construction activity within proximity of the building and utility interruptions with the facility manager to minimize disturbance and inconvenience to facility operations.

CONTRACTOR may limit saw-cut and pavement removal to only those areas where it is required as shown on these construction plans, however if any damage is incurred on any of the surrounding pavement, etc. the CONTRACTOR shall be responsible for its removal and repair.

Any existing wells encountered shall be exposed and sealed '3' below proposed grade by the CONTRACTOR in accordance with Section 920.120 (latest edition) of the Illinois Water Construction Code, Department of Public Health, and all applicable local rules and regulations. CONTRACTOR is responsible for obtaining all permits required by the JURISDICTIONAL GOVERNING ENTITIES for abandoning existing wells.

Any existing tanks and grease traps encountered shall have all liquids and solids removed and disposed of by a licensed commercial hauler in accordance with JURISDICTIONAL GOVERNING ENTITY regulations, and the tank and grease traps shall then be filled with suitable materials or removed from the site and disposed of by the CONTRACTOR.

Voids left by any item removed under any proposed building, pavement, walk, etc. or within 24" thereof shall be filled and compacted with suitable materials by the CONTRACTOR.

The CONTRACTOR shall be responsible for the disconnection of utility services to the existing buildings prior to demolition of the buildings.

Any material containing asbestos found within existing structures shall be removed from the site and disposed of by the CONTRACTOR in accordance with County, State and Federal regulations.

CONTRACTOR shall remove and/or relocate daily a program of dust control and shall submit and obtain JURISDICTIONAL GOVERNING ENTITY approval of dust control measures prior to demolition of any structures. Modification of dust control procedures shall be performed by the CONTRACTOR to the satisfaction of the JURISDICTIONAL GOVERNING ENTITY as requested.

The CONTRACTOR shall coordinate all demolition with the JURISDICTIONAL GOVERNING ENTITY and CLIENT to ensure protection and maintenance of sanitary sewer and water lines as necessary and to provide stormwater conveyance until new facilities are constructed, tested and placed into operation.

The locations of all existing utilities shown on this plan have been determined from the best information available and are given for the convenience of the CONTRACTOR and are not to be taken as the only obstacles that may occur on the site. The ENGINEER assumes no responsibility for any damage to any structures or property unless otherwise indicated, and to require complete performance of the work in spite of omissions of specific references to any minor component parts. It is the intent of the CONTRACTOR to not materially affect materials or work not covered by or properly inferred from any heading, branch, class or trade of the SPECIFICATIONS. CONTRACTOR shall supply any missing information as directed by the ENGINEER.

The CONTRACTOR is responsible for removing the existing irrigation system in the areas of proposed improvements. The contractor shall cap the existing irrigation system to remain such that the remaining system shall continue to function properly.

The parking lot shall be completed in sections such that it does not interrupt the facility operations. The CONTRACTOR shall coordinate with the construction manager for work to be performed.

This work shall be completed in conformance with the applicable sections of the Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition except as modified below.

SOIL BORING DATA

Copies of results of all borings and reports, if such borings were taken by the CLIENT in the vicinity of the proposed construction site, should be made available by the CLIENT to the CONTRACTOR. These borings are presented for whatever purpose the CONTRACTOR chooses to make of them. The ENGINEER makes no representation or warranty regarding the borings taken, nor of the accuracy or reliability of the information given in the results thereof.

Further, the ENGINEER does not assume responsibility for the possibility that during construction, the soil and groundwater condition may be different than indicated. Neither does the ENGINEER assume responsibility for variations of soil and groundwater at location, type, spacing or depth of borings taken, nor of the accuracy or reliability of the information given in the results thereof.

All sanitary borings shall be tested for water tightness in accordance with ASTM C669 "Standard Practice for Infiltration and Exfiltration Acceptance Testing of Concrete Precast Concrete Pipe Sewer Lines", or ASTM C1244 "Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test".

EARTHWORK CALCULATIONS AND CROSS SECTIONS

The CONTRACTOR understands that any earthwork calculations, quantities or cross sections that have been furnished by the ENGINEER are for information only and are provided without any guarantee by the CLIENT or ENGINEER whatsoever as to their sufficiency or accuracy. CONTRACTOR warrants that he has performed his own subsurface investigations as necessary and his own calculations and cross sections to determine site soil conditions and earthwork volumes. The ENGINEER makes no representation or guarantee regarding earthwork quantities or that the earthwork for this project will balance due to the varying field conditions, changing soil types, allowable construction to tolerances and construction methods that are beyond the control of the ENGINEER.

CLEARING, GRUBBING AND TREE REMOVAL

The site shall be cleared, grubbed, trees and stumps removed where designated on the PLANS. Trees designated to remain shall be protected from damage.

TOPSOIL STRIPPING

Upon completion of demolition, clearing, grubbing and tree removal, all topsoil shall be stripped from under all buildings and pavements areas, and other areas necessary to complete the work. Topsoil stripped shall be placed in stockpiles in locations as designated by the CLIENT.

TOPSOIL RESTRIPPING

Upon completion of topsoil stripping, the CONTRACTOR shall apply seed and fertilizer to all stripped areas in accordance with the landscape drawings and specifications provided by the CLIENT.

SEEDING

Upon completion of roadway and/or parking lot improvements and installation of underground utilities a minimum of six inches (6") of topsoil shall be respread over all unpaved areas which have been disturbed by earthwork construction, except building pads and other designated areas, which shall be kept free from topsoil.

SODDING

Upon completion of topsoil respread, the CONTRACTOR shall install sod to all areas designated on the plans or as designated on the landscape drawings and specifications provided by the CLIENT.

EXCAVATION AND EMBANKMENT

Upon completion of topsoil stripping, all excavation and embankments shall be completed as shown on the PLANS. All suitable excavated materials shall be hauled, placed (moisture conditioned if necessary) and compacted in the embankment areas. The CONTRACTOR shall include all dewatering, temporary ditching and culverts necessary to complete the excavation and embankment.

Specifically included in the scope of Excavation and Embankments is grading and shaping of all cut or fill areas including swales and ditches; handling of seep soil, spoil, etc., and all work required to provide positive drainage at the end of each working day and upon completion of a section.

The CONTRACTOR shall be responsible for the excavation of all swales and ditches and for the excavation or filling of roads, building pads and parking lots with the work limits to meet the required grades as shown on the plans. He shall be responsible for obtaining permission in accordance with the minimum values listed in the table below for all embankments unless more stringent values are listed in the soils report or are approved by the CLIENT, and to use any method approved by the CLIENT necessary to obtain this compaction (i.e., soil fabric or any underdraining that may be required).

EXCAVATION AND EMBANKMENT

Upon completion of excavation and shaping of the water retention areas intended to maintain a permanent pool of water, all silt seams and granular or sandy soils shall be removed to a minimum depth of three feet below the substrate and replaced with an impermeable clay liner, including adjacent to and under stone sewer walls and outlets. It is the intent of these PLANS and SPECIFICATIONS that the CONTRACTOR shall prepare the lake bottoms, side slopes, and compaction thereof such that the lakes will maintain the proposed normal water level and that leakage does not exceed 1/8 inch per week.

Ditches and swales are to be excavated to the lines and grades indicated on the PLANS. All suitable materials excavated from the construction of the embankments shall be used in the backfill.

Claims, damages, losses and expenses as these words are used in the Agreement shall mean and include, but not be limited to (1) injury or damage occurring by reason of the failure or use or