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INTERIOR RENOVATIONS FOR:  
**BIG FOUR DEPOT**

127 N. WASHINGTON STREET, GALION, OHIO 44833

PREPARED FOR

**THE CITY OF GALION**

**TOM O'LEARY**  
MAYOR

**ERIC WEBBER**  
CITY COUNCIL PRESIDENT

**NICOLE WARD**  
SAFETY-SERVICE DIRECTOR

**KEN BODKINS**  
1ST WARD

**MELISSA FRANK**  
2ND WARD

**MIKE RICHART**  
3RD WARD

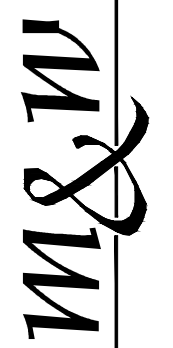
**CARRIE ZEGER**  
4TH WARD

**KARA AULT**  
COUNCIL AT-LARGE

**CARL W. WATT**  
COUNCIL AT-LARGE

**PAULA DURBIN**  
COUNCIL AT-LARGE

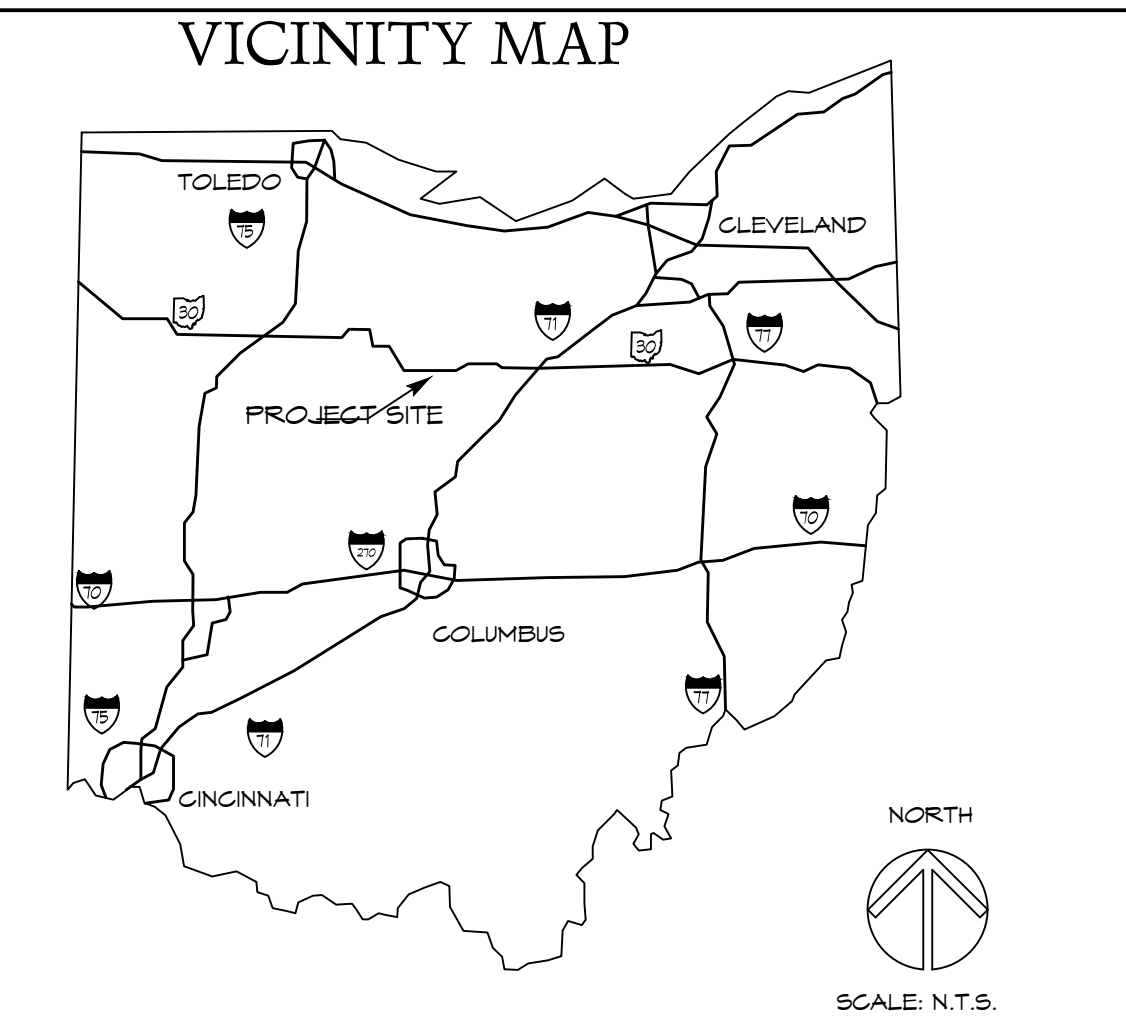
Phase I Early Sitemap Package for:  
**Galion Big Four Depot Renovation**  
 127 N. Washington Street  
 Galion, Ohio 44833



*mull & weithman architects, inc.*  
 4525 indianola avenue, columbus, ohio 43214  
 614-267-6960 614-267-6978 fax

Issued for Bidding  
 3 november 2023  
 commission no. 2213

**TS**  
**1.0**

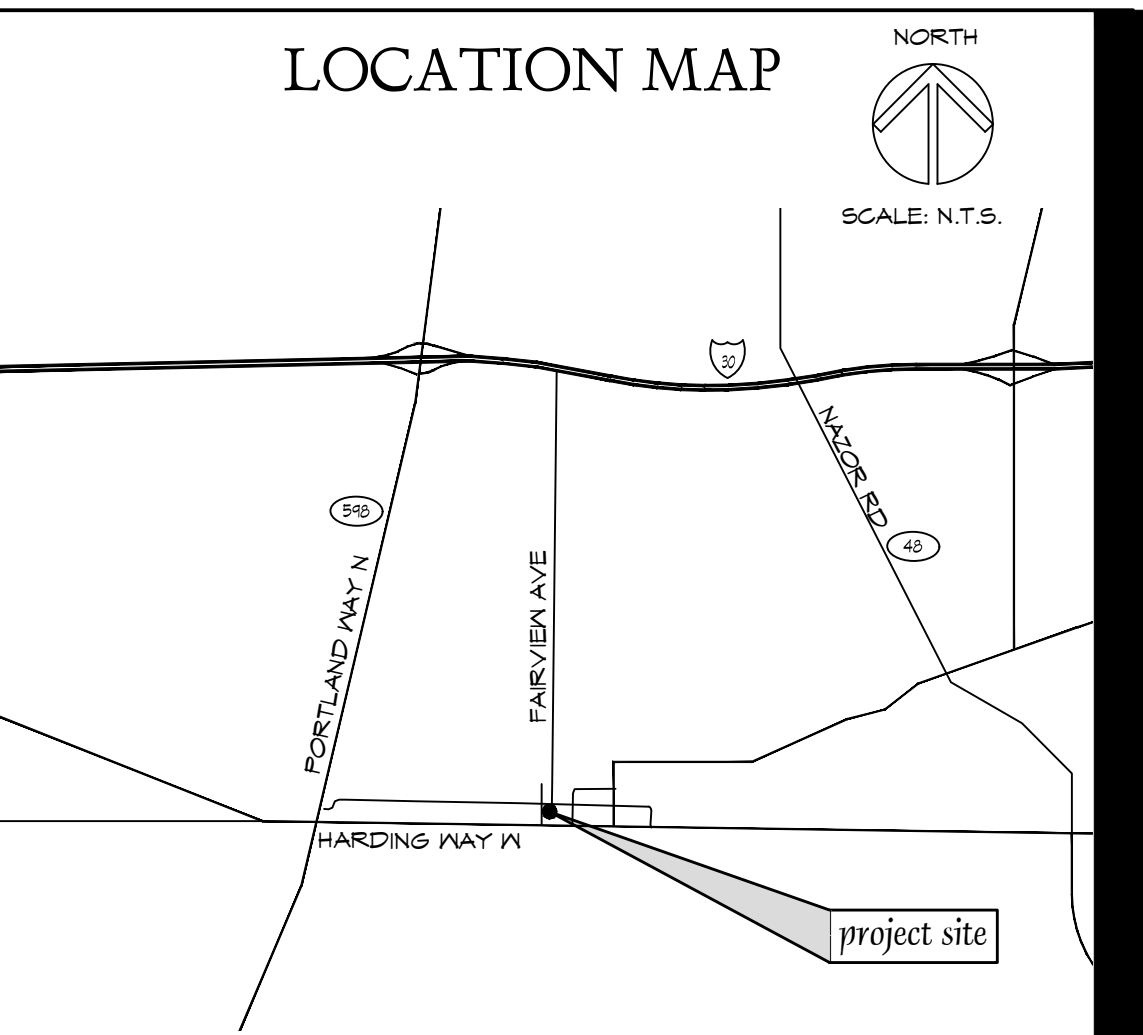


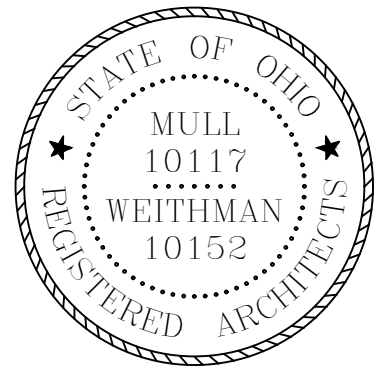
PREPARED BY

CIVIL ENGINEERING <i>Karpinski Engineering</i> 8800 lyra drive, suite 530, columbus, ohio 43240	MECHANICAL & ELECTRICAL ENGINEERING <i>Karpinski Engineering</i> 8800 lyra drive, suite 530, columbus, ohio 43240
STRUCTURAL ENGINEERING <i>Korda / Nemeth Engineering</i> 1650 watermark drive, columbus, ohio 43215	TECHNOLOGY ENGINEERING <i>Karpinski Engineering</i> 8800 lyra drive, suite 530, columbus, ohio 43240

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REVISIONS	PROJECT STATUS
	<input type="radio"/> schematic design <input type="radio"/> design development <input type="radio"/> construction documents <input type="radio"/> permit submittal <input checked="" type="radio"/> issued for bidding
	3 november 2023





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SCHEDULE OF ALTERNATES	
NO.	DESCRIPTION
A-1	WASHINGTON STREET SIDEWALK REPLACEMENT

DRAWING INDEX	
SHEET	DESCRIPTION
GENERAL	
TS 1.0	TITLE SHEET
TS 1.1	INDEX, ABBREVIATIONS & SYMBOLS
G 1.0	ARCHITECTURAL SITE PLAN
GS 1.0	SITE SURVEY
SITE / CIVIL	
C 1.0	CIVIL GENERAL NOTES
C 1.1	EXISTING SITE / DEMOLITION PLAN
C 1.2	GRADING PLAN
C 1.3	SITE LAYOUT PLAN
C 1.4	SITE UTILITY PLAN
C 2.0	PROPOSED SWPPP PLAN
C 2.1	SWPPP SPECIFICATIONS & STANDARDS
C 2.2	SWPPP DETAILS
C 2.3	SWPPP DETAILS
C 2.4	SWPPP REPORT & INSPECTION LOGS
C 3.0	STANDARD CONSTRUCTION DETAILS
C 3.1	STANDARD CONSTRUCTION DETAILS
C 3.2	STANDARD CONSTRUCTION DETAILS
C 3.3	STANDARD CONSTRUCTION DETAILS
ELECTRICAL	
ES-1	ELECTRICAL SITE PLAN

### SYMBOLS

**SYMBOLS**

- CUT SYMBOLS:**
  - Direction of cut, section designation, sheet no. where section shown, sheet no. where section first cut.
  - Detail designation, sheet no. where detail shown, sheet no. where detail first cut.
  - Elevation designation, direction of elevation, sheet no. where elevation shown.
  - Enlarged plan designation, sheet no. where enlarged plan shown.
- GEOMETRIC SYMBOLS:**
  - Angle, center line, plate, perpendicular, diameter, bearing/elevation designation.
- MATERIAL PATTERNS:**
  - Earth, gravel or sand fill, concrete, grout/gypsum/plaster/particle board, steel, dimensional lumber, blocking / dimensional lumber ripped to size, wall construction type, wall type numeral - refer to partition legend.
  - Wood stud partition, structural wood post, roof insulation, brick veneer, concrete block, solid or grouted concrete block, plywood, batt insulation, rigid insulation/insulated sheathing, finish grade wood / fiber cement trim, stone.
- NOTES:**
  - Extend all walls full height to underside of deck above unless noted otherwise.
  - Item 24: Addendum revision, item number, addendum number.

### ABBREVIATIONS

A.B.	ANCHOR BOLT	EXP.	EXPANSION	PERF.	PERFORATED
ABV.	ABOVE	EXT.	EXTERIOR	PERIM.	PERIMETER
A/C	AIR CONDITIONING	FAB.	FABRICATED	PICT.	PICTURE
A.C.T.	ACOUSTICAL CEILING TILE	F.D.	FLOOR DRAIN	PL / PL	PLATE
A.F.F.	ABOVE FINISH FLOOR	F.E.	FIRE EXTINGUISHER	PLAM	PLASTIC LAMINATE
ALT.	ALTERNATE	FIN.	FINISH	PANL	PANEL
ALUM.	ALUMINUM	FLR.	FLOOR(ING)	PREFIN.	PREFINISHED
APPROX.	APPROXIMATE	FND./FOUND.	FOUNDATION	P.S.F.	POUNDS PER SQUARE FOOT
ARCH.	ARCHITECT	F.O.F.	FACE OF FINISH	P.S.I.	POUNDS PER SQUARE INCH
ATTEN.	ATTENUATION	F.O.M.	FACE OF MASONRY	P.T.	PRESSURE TREATED
BD.	BOARD	F.O.S.	FACE OF STUD	PT.	PAINT
BLDG.	BUILDING	FRZ.	FRIEZE	P.V.C.	POLYVINYL CHLORIDE
BLK.	BLOCK	FTG.	FOOTING	PVMT.	PAVEMENT
BLKS.	BLOCKING	F.V.	FIELD VERIFY	Q.T.	QUARRY TILE
BM.	BEAM	GA.	GAUGE	R.	RISER
B.M.	BENCH MARK	G.C.	GENERAL CONTRACT(OR)	R.A.	RETURN AIR
B.O.	BOTTOM OF	GL.	GLASS/GLAZING	R.D.	ROOF DRAIN
BOT.	BOTTOM	GYP. BD.	GYPSUM BOARD	REINF.	REINFORCED(ING)
BRG.	BEARING	H.C.	HOLLOW CORE	REQ./REQD.	REQUIRED
BRK.	BRICK	HDWD.	HARDWOOD	REV.	REVERSE
B.S.	BOTH SIDES	HDR.	HEADER	RFG.	ROOFING
BSMT.	BASEMENT	HGR.	HANGER	RM.	ROOM
BTWN.	BETWEEN	H.M.	HOLLOW METAL	R.O.	ROUGH OPENING
B/W	BOTH WAYS	HORIZ./HORIZ.	HORIZONTAL	R/W / R.O.M.	RIGHT OF WAY
CAB.	CABINET	HT.	HEIGHT	SAN.	SANITARY
CASEMT./CSMT.	CASEMENT	HTG.	HEATING	S.C.	SOLID CORE
C.B.	CATCH BASIN	HVAC	HEATING/VENTILATION/AIR CONDITIONING	SCHED.	SCHEDULE
C/G	CENTER TO CENTER	I.A.M.	IN ACCORDANCE WITH	SHT.	SHEET
CER.	CERAMIC	INS./INSUL.	INSULATED(ION)	SHTG.	SHEDDING
C.J.	CONTROL JOINT	INT.	INTERIOR	SM.	SIMILAR
CL.	CENTER LINE	INT.	INTERIOR	SPEC./SPECB.	SPECIFICATIONS
CLG.	CEILING	JST./JSTS.	JOIST(S)	SQ.	SQUARE
CLR.	CLEARANCE	LAM.	LAMINATED	S.S.	STAINLESS STEEL
C.M.U.	CONCRETE MASONRY UNIT	LAV.	LAVATORY	STD.	STANDARD
CNTR.	COUNTER	L.L.	LIVE LOAD	STL.	STEEL
COL.	COLUMN	MAS.	MASONRY	STM.	STORM
CONC.	CONCRETE	MATL.	MATERIAL	STRUCT.	STRUCTURAL
CONT.	CONTINUOUS	MAX.	MAXIMUM	T&G	TONGUE AND GROOVE
CPT.	CARPET	M.C.	MEDICINE CABINET	THK.	THICKNESS
CRS.	COURSE	MEGH.	MECHANICAL	T.O.	TOP OF
C.T.	CERAMIC TILE	MFR.	MANUFACTURE(R)	T.O.C.	TOP OF CONCRETE
C.Y.	CUBIC YARD	M.H.	MANHOLE	TRTD.	TREATED
DET./DTL.	DETAIL	MIN.	MINIMUM	T.V.	TELEVISION
DIA/DIAM/Ø	DIAMETER	M.O.	MASONRY OPENING	TYP.	TYPICAL
D.L.	DEAD LOAD	LAM.	LAMINATED	UN.O.	UNLESS NOTED OTHERWISE
DR.	DOOR	M.R.	MOISTURE RETARDANT	V.B.	VAPOR BARRIER
D.S.	DOWNSPOUT	MTD.	MOUNTED	V.C.T.	VINYL COMPOSITION TILE
D/W.	DISHWASHER	MTL.	METAL	VERT.	VERTICAL
DWSG./DWSGS.	DRAWING(S)	N.I.C.	NOT IN CONTRACT	V.N.T.	VINYL TILE
EA.	EACH	NO.	NUMBER	W/	WITH
E.C.	ELECTRICAL CONTRACTOR	NOM.	NOMINAL	WD.	WOOD
E.J.	EXPANSION JOINT	N.T.S.	NOT TO SCALE	W/O.	WITHOUT
ELEC.	ELECTRICAL	O/	OVER	W/O.	WITHOUT
ELEV.	ELEVATION	O.C.	ON CENTER	W/P.	WELDED WIRE FABRIC
EQ.	EQUAL	OPG.	OPENING	W/M.	WELDED WIRE MESH
ENC.	ELECTRIC WATER COOLER	OPF.	OPPOSITE	W/W.	WELDED WIRE FABRIC
EXIST.	EXISTING	OSB.	ORIENTED STRAND BOARD	W/W.	WELDED WIRE FABRIC
		OVHD./OVHD.	OVERHEAD	W/W.	WELDED WIRE FABRIC

Phase I Early Sitework Package for:  
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 Galion, Ohio 44833

**M&W**  
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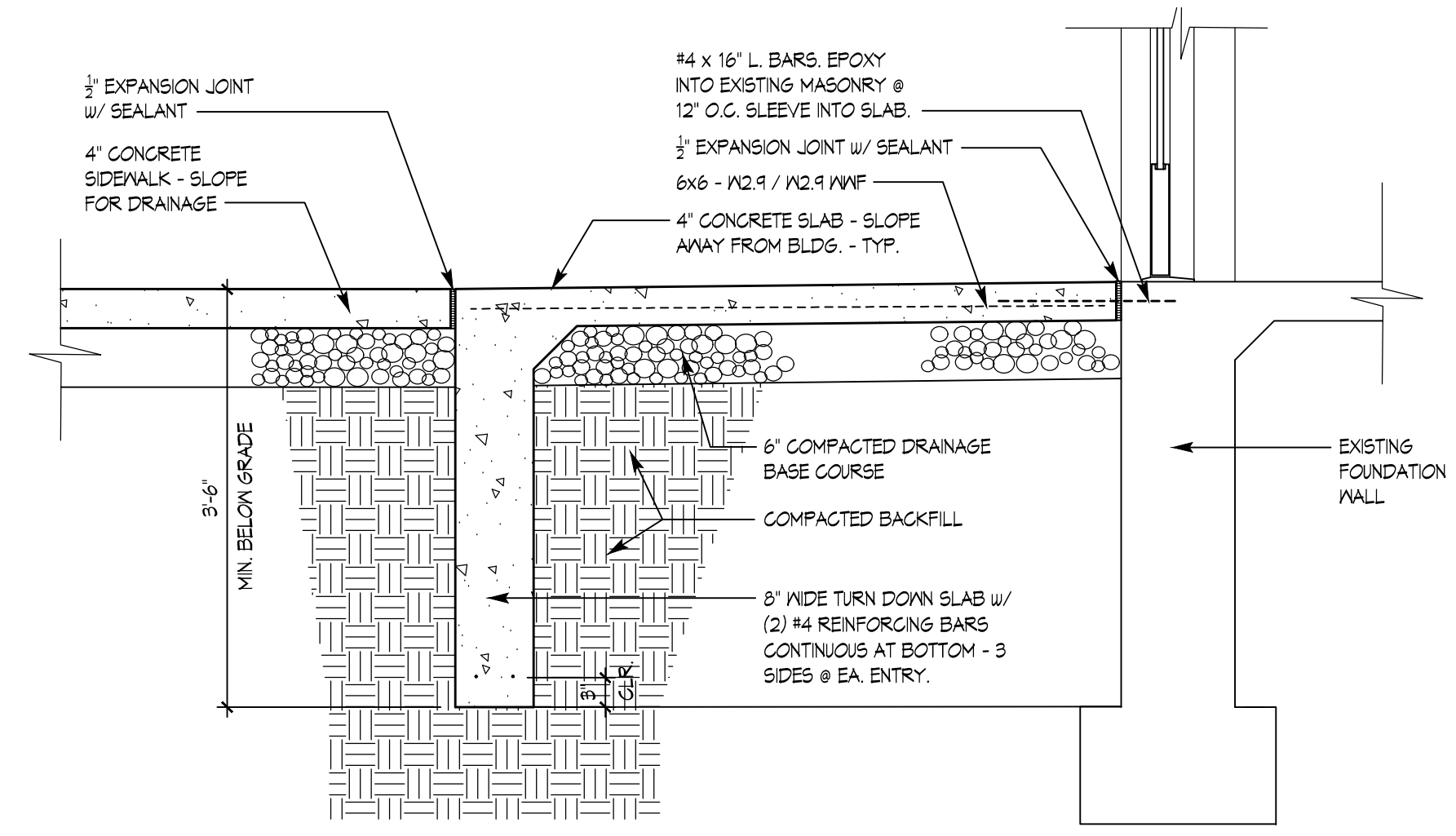
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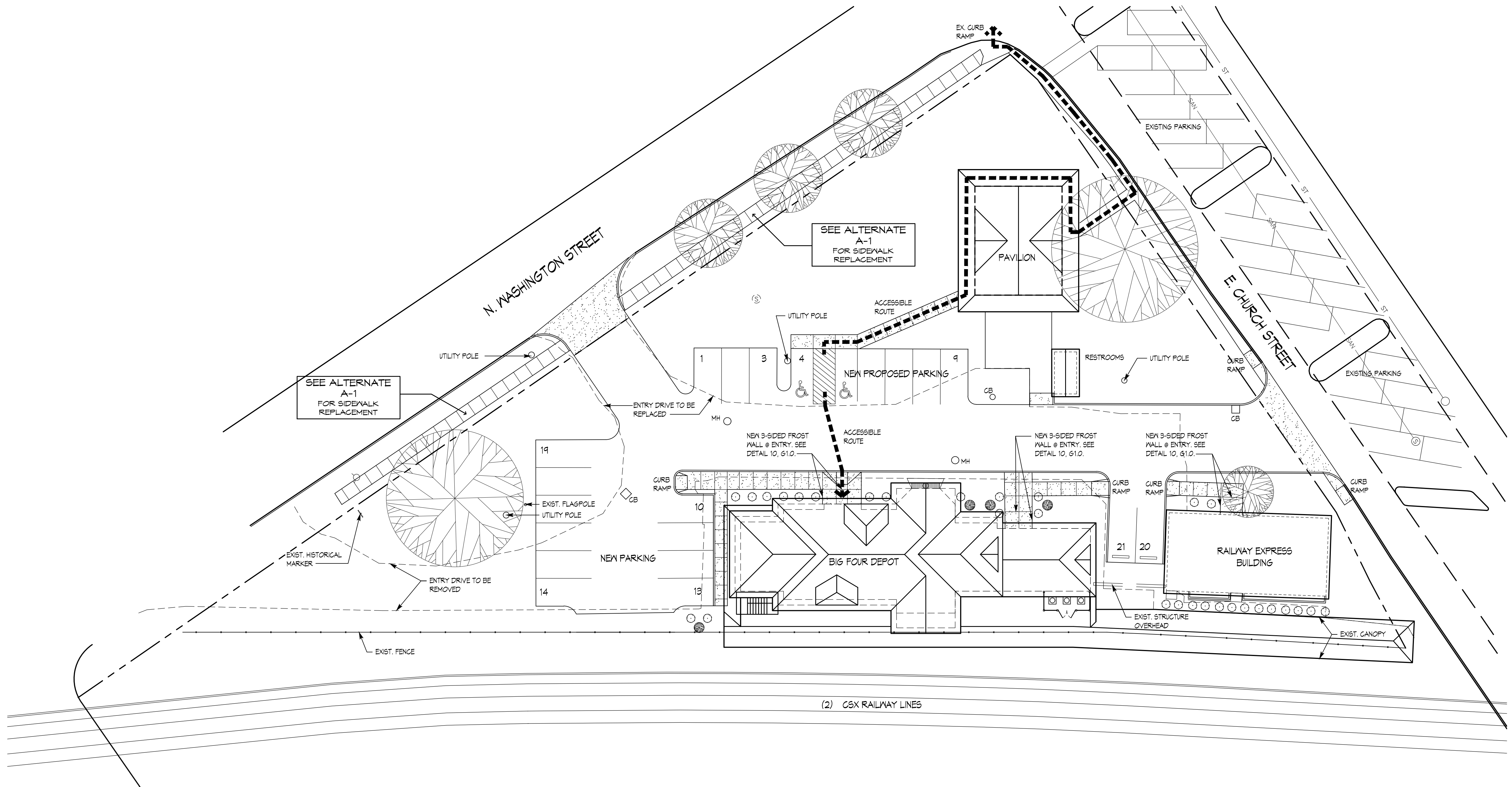
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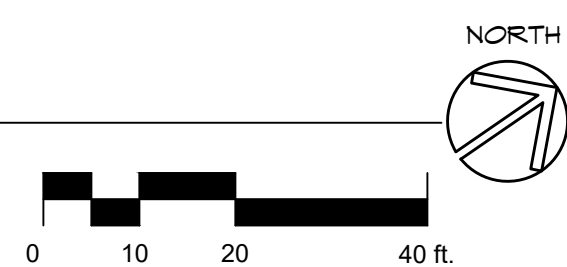
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SECTION TYPICAL FROST WALL @ EXTERIOR ENTRANCES  
SCALE: 3/4" = 1'-0"  
10  
G1.0



PROPOSED SITE PLAN  
SCALE: 1" = 20'-0"







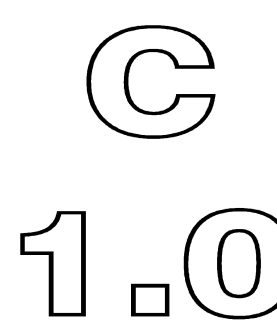
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# NOTES

- SCOPE OF WORK**  
THE FOLLOWING IS INTENDED TO CONVEY A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED FOR THIS PROJECT:

THE CONTRACTOR'S RESPONSIBILITIES INCLUDE, BUT ARE NOT LIMITED TO, CONSTRUCTION PROCEDURES, MATERIALS, INSTALLATION SEQUENCE, AND COORDINATION WITH THE OWNER.

THE CONTRACTOR SHALL SECURE AND PAY FOR ANY AND ALL LICENSES, GOVERNMENT FEES, AND PERMITS THAT MAY BE REQUIRED TO PROPERLY EXECUTE AND COMPLETE THE WORK. COMPLY WITH ALL APPLICABLE CODES, RULES, ORDINANCES AND OTHER LEGAL REQUIREMENTS.

CONTRACTOR SHALL IMMEDIATELY LOCATE ALL REFERENCE POINTS, LAYOUT WORK, AND BE RESPONSIBLE FOR ALL MEASUREMENTS AND OTHER WORK TO BE EXECUTED UNDER THE CONTRACT. VERIFY ALL FIGURES SHOWN ON THE PLANS, VERIFY ALL DIMENSIONS OF ANY EXISTING AND NEW WORK, BE RESPONSIBLE FOR THEIR ACCURACY AND SUBMIT ANY DIFFERENCES FOUND TO THE OWNER BEFORE PROCEEDING WITH THE WORK. NO EXTRA COMPENSATION WILL BE PERMITTED BECAUSE OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND MEASUREMENTS INDICATED ON THE DRAWINGS.
- STANDARDS & SPECIFICATIONS**  
CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND / OR MATERIAL INSIDE OR OUTSIDE CONTRACT LIMIT / PROPERTY LINE DUE TO CONSTRUCTION. ALL WORK MUST BE IN ACCORDANCE WITH LOCAL AND / OR STATE CODES AND REGULATIONS. CONTRACTOR IS TO COMPLY WITH ODOT ITEM 107.10. WORK IS TO BE SATISFACTORY TO THE PROPERTY OWNER.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS OF THE TOWNSHIP OR COUNTY, AND THE LATEST EDITION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. IN THE CASE OF A CONFLICT BETWEEN TOWNSHIP OR COUNTY AND ODOT REQUIREMENTS, THE VILLAGE REQUIREMENTS WILL TAKE PRECEDENCE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- PLAN DISCREPANCIES**  
ANY DISCREPANCIES FROM THE PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY SO THAT APPROPRIATE ADJUSTMENTS IN ALIGNMENT AND / OR GRADE MAY BE MADE PRIOR TO THE START OF CONSTRUCTION.

FAILURE BY THE CONTRACTOR TO VERIFY AND / OR DETERMINE EXISTING INFORMATION AS INDICATED WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ANY CHANGES NECESSARY TO COMPLETE THE WORK SPECIFIED WITHOUT ADDITIONAL COMPENSATION.
- PLAN MODIFICATION**  
ANY MODIFICATIONS TO THE NOTES, OR CHANGES TO THE WORK AS SHOWN ON THESE PLANS MUST HAVE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- SAFETY**  
IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF THE RESIDENTS (INCLUDING EMPLOYEES), WORKERS, GENERAL PUBLIC AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

THE CONTRACTOR SHALL PROPERLY SUPPORT AND / OR MAINTAIN ALL EXCAVATIONS PER APPLICABLE SAFETY REQUIREMENTS AND COMPLY WITH ALL OSHA REGULATIONS. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER OF THE PROJECT'S ASSIGNED "COMPETENT PERSON" IN OSHA EXCAVATION STANDARDS.

PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE OF DEBRIS (MUD, STONE, ETC.) AT ALL TIMES.

THE CONTRACTOR SHALL ALERT ALL LOCAL EMERGENCY AGENCIES (FIRE, POLICE, AMBULANCE, ETC.) OF THE NATURE OF THE PROPOSED PROJECT PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY. ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
- BASE MAPPING**  
SURVEY INFORMATION HAS BEEN PROVIDED BY MAKEEVER & ASSOCIATES, INC. ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR. BENCHMARKS SHOWN ON PLAN ESTABLISHED BY OR FOUND BY MAKEEVER & ASSOCIATES, INC. CONDITION OF BENCHMARK MUST BE VERIFIED PRIOR TO CONSTRUCTION.
- EXISTING UTILITIES**  
VIEW THE SITE AND COORDINATE WITH THE OWNER REGARDING LOCATION OF EXISTING FACILITIES AND ANY POSSIBLE UTILITY SERVICE INTERRUPTION OR RELOCATION. THE CONTRACTOR'S RESPONSIBILITIES INCLUDE, BUT ARE NOT LIMITED TO, THE INVESTIGATION, VERIFICATION OF EXISTING UTILITY DIMENSIONS AND LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT.

THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITY PROTECTION SERVICE (OUPS) AT 1-800-362-2764, THE TOWNSHIP OR COUNTY ENGINEER, AND ALL PRIVATE UTILITY OWNERS A MINIMUM OF 48 HOURS PRIOR TO ANY EARTH DISTURBING ACTIVITY.

ALL UTILITY INFORMATION SHOWN ON THESE PLANS IS BASED UPON THE SURVEY COMPLETED BY MAKEEVER & ASSOCIATES, INC. AND RECORD DRAWINGS, AND IS PROVIDED AS A REFERENCE ONLY. IT IS BELIEVED THAT THESE LOCATIONS ARE ESSENTIALLY CORRECT. HOWEVER, THE OWNER AND ENGINEER DO NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THESE EXISTING UTILITIES. CONTRACTOR MAY DIG TEST PITS AT THEIR OWN EXPENSE.
- EXISTING MONUMENTATION**  
THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS AND / OR ANY TYPE OF LAND MONUMENT. ALL MONUMENTS IN THE PROXIMITY OF THE WORK SHALL BE REFERENCED. THE CONTRACTOR SHALL REPLACE / RESET ANY DISTURBED OR DAMAGED MONUMENTS, AND SHALL FURNISH A CERTIFICATION BY A REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED TO THEIR ORIGINAL STATE.
- DEWATERING OPERATIONS**  
WHEN DEEMED NECESSARY, THE CONTRACTOR MAY PLAN AND INSTALL DEWATERING EQUIPMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND PLANS FOR THE INSTALLATION AND SUBSEQUENT REMOVAL OF DEWATERING EQUIPMENT AS MAY BE NECESSARY PER STATE AND LOCAL GOVERNING AGENCIES.

THE CONTRACTOR SHALL CONSTANTLY MAINTAIN ALL EXCAVATIONS IN A DEWATERED, WORKABLE CONDITION AND SHALL BE RESPONSIBLE FOR INSTALLING, OPERATING, MAINTAINING, AND REMOVING SUCH DEWATERING SYSTEMS AS ARE REQUIRED.
- INSPECTION**  
ALL WORK REQUIRED FOR THIS IMPROVEMENT PLAN SHALL BE SUBJECT TO INSPECTION BY THE CITY OR THEIR DESIGNATED REPRESENTATIVE. THE CONTRACTOR SHALL GIVE A 48 HOUR NOTICE BEFORE STARTING ANY WORK ON THIS PROJECT AND SHALL KEEP THE CITY OR COUNTY AND THE OWNER INFORMED OF HIS / HER CONSTRUCTION SCHEDULE. NO WORK SHALL BE PERFORMED AND / OR BURIED UNLESS AN AUTHORIZED INSPECTOR IS PRESENT.
- CONSTRUCTION NOISE**  
CONSTRUCTION NOISE ASSOCIATED WITH ANY IMPROVEMENT PROJECT, SHALL BE LIMITED TO LEVELS COMMENSURABLE WITH ADJOINING LAND AND THEIR ASSOCIATED USAGE AS DETERMINED BY THE CITY OR COUNTY ENGINEER. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICE SHALL NOT BE OPERATED BETWEEN THE HOURS OF 7:00 P.M. AND 8:00 A.M. UNLESS AUTHORIZED BY THE OWNER AND CITY OR COUNTY ENGINEER.

CONSTRUCTION HOURS AND ACCEPTABLE NOISE LEVELS ARE TO BE APPROVED BY THE OWNER.
- DUST CONTROL**  
THE CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE OWNER AND / OR CITY OR COUNTY ENGINEER. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL.
- MAINTENANCE OF TRAFFIC**  
THE CONTRACTOR IS TO MAINTAIN ACCESS ALONG N. WASHINGTON AND E. CHURCH STREETS AT ALL TIMES. THE CONTRACTOR MUST SUBMIT A MAINTENANCE OF TRAFFIC PLAN TO THE CITY (IF APPLICABLE) FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.

USE SIGNS, BARRICADES, FLAGMEN OR GUARDS AS REQUIRED DURING CONSTRUCTION ACTIVITIES TO ENSURE THE SAFETY FOR ALL VEHICULAR AND PEDESTRIAN TRAFFIC. NO UNMANNED EXCAVATION SHALL BE LEFT UNPROTECTED. ALL TEMPORARY TRAFFIC CONTROL / FLAGGING ARE TO BE IN ACCORDANCE WITH ODOT ITEM 614, AS WELL AS OHIO REVISED CODE SECTION 4571.09.

- DIMENSION**  
ALL DIMENSIONS ARE TO EDGE OF PAVEMENT, FACE OF CURB, AND FACE OF BUILDING, UNLESS OTHERWISE NOTED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REGULATIONS AND RELATIONS TO OTHER WORK BEFORE FABRICATION AND / OR INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT OF WORK.
- CONSTRUCTION AREA**  
CONFINE OPERATIONS TO AREAS BEING CONSTRUCTED OR REPAIRED. DO NOT UNREASONABLY ENCUMBER THE SITE WITH MATERIALS OR EQUIPMENT. COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE OWNER.

TAKE ALL PRECAUTIONS TO PREVENT INTERFERENCE WITH NORMAL OPERATIONS OF THE OWNER. DO NOT BLOCK OR INTERFERE WITH REQUIRED LEGAL EXITING.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER THAT LOCAL TRAFFIC SHALL HAVE ACCESS THROUGHOUT THE PROJECT IN A MANNER APPROVED BY THE CITY OR COUNTY ENGINEER.

NO TRENCH OR EXCAVATION SHALL BE LEFT OPEN OVERNIGHT. OPEN AREAS ARE TO BE BACKFILLED OR STEEL PLATED. IN CASE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH SHALL BE BACKFILLED OR STEEL PLATED AT THE DIRECTION OF THE ENGINEER OR THE AUTHORITY HAVING JURISDICTION. NO TRENCH MAY BE BACKFILLED WITHOUT INSTALLED UTILITIES BEING REVIEWED BY ASSOCIATED INSPECTOR(S).

THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE SITE CLEAN AT ALL TIMES, TAKE RESPONSIBILITY FOR FINAL CLEANING AND REMOVAL OF ALL TOOLS, EQUIPMENT AND SURPLUS MATERIALS FROM THE SITE AT COMPLETION OF THE WORK. DO NOT STOCKPILE ANY EXCESS CUT MATERIAL THAT IS NOT TO BE USED FOR ON-SITE FILL. HAUL AWAY AND PROPERLY DISPOSE OF ALL EXCESS CUT MATERIAL AT NO ADDITIONAL EXPENSE TO THE OWNER.
- GENERAL**  
THE CONTRACTOR SHALL FURNISH A CERTIFICATE FROM A REGISTERED PROFESSIONAL SURVEYOR STATING THAT ALL HORIZONTAL AND VERTICAL CONTROL MONUMENTS AFFECTED BY THE PROJECT WERE REMOVED AND REPLACED TO THEIR ORIGINAL REFERENCE LOCATIONS AND ELEVATIONS.

ALL ROAD SURFACES, UTILITIES, BUILDINGS, STRUCTURES, SITE CONDITIONS, OR RIGHT-OF-WAYS DISTURBED BY CONSTRUCTION OF ANY PART OF THIS IMPROVEMENT ARE TO BE RESTORED COMPLETELY TO THE BEFORE CONSTRUCTION CONDITION. ALL ITEMS ARE INCLUDED IN THE PAY ITEMS.

ALL EXISTING SITE PAVEMENT MATERIAL REMOVED AS PART OF THIS IMPROVEMENT SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR.

ALL DISTURBED SIGNS, GUARDRAIL, MAIL AND / OR PAPER BOXES, DRIVES AND DRIVE CULVERTS SHALL BE REPAIRED AND / OR REPLACED AS DIRECTED BY THE ENGINEER.

ALL DISTURBED AND / OR DAMAGED STORM SEWER PIPES, STORM SEWER APPURTENANCES, PAVEMENTS, BERMS AND DITCHES SHALL BE REPAIRED AND / OR REPLACED AS DIRECTED BY THE ENGINEER.

ANY DEFECTS IN CONSTRUCTION INCLUDING MATERIALS OR WORKMANSHIP SHALL BE REPLACED OR CORRECTED BY REMOVAL AND REPLACEMENT OR OTHER APPROVED METHOD PRIOR TO ACCEPTANCE BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT AND PERFORM SUB-GRADE PREPARATION WORK ACCORDING TO THE GEOTECHNICAL ENGINEER'S REQUIREMENTS AND FIELD DIRECTION. ACTUAL FIELD CONDITIONS MAY REQUIRE DECISIONS ON MATERIAL HANDLING AND USAGE. THE CONTRACTOR SHALL CONTINUALLY MONITOR AND MAINTAIN OVERALL SITE BALANCE AND COORDINATE ANY REVISIONS WITH THE OWNER AND ENGINEER. ANY EXCESS TOPSOIL OR ORGANIC MATERIAL MAY BE SPOILED ON-SITE IF APPROVED BY THE OWNER.

BEFORE ACCEPTANCE OF THE SUB-GRADE BY THE ENGINEER, PROOF-ROLLING SHALL BE REQUIRED ON ALL AREAS TO BE PAVED PER ODOT ITEM 204.06 CMS (LATEST EDITION), IN ADDITION, FOR ANY FILL IN EXCESS OF TWO (2) FEET, NUCLEAR COMPACTION TESTS SHALL BE PERFORMED BY AN APPROVED ODOT COMPANY AS PER ODOT ITEM 203. THESE TESTS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY PAVEMENT CONSTRUCTION.

ALL MATERIALS USED MUST BE OBTAINED FROM A SOURCE APPROVED BY ODOT.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO PERFORM THE WORK SPECIFIED IN THE CONTRACT DOCUMENTS.

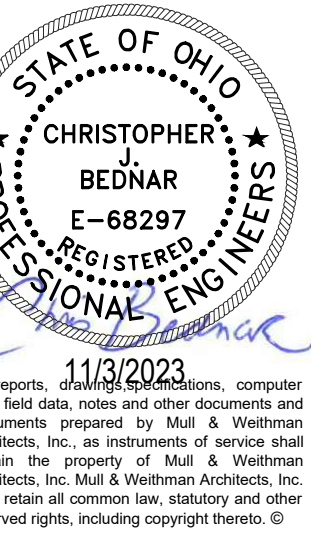
**EXISTING CONDITIONS NOTES**

UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER KARPINSKI ENGINEERING OR MAKEEVER & ASSOCIATES, INC NOR ANY OF THEIR EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES AND/OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION BY CALLING 811. REFERENCE NUMBERS A830-902-745, A830-902-749, A830-902-765, & A830-902-771.

CIVIL LINE TYPE LEGEND		
DESCRIPTION	EXISTING	PROPOSED
APPROXIMATE LIMIT OF CONST.	--- LOCN ---	--- LOCN ---
CABLE TELEVISION (UG)	--- CATV ---	--- CATV ---
CENTER LINE	--- C ---	--- C ---
COMBINATION SEWER LINE	--- COMB ---	--- COMB ---
COMMUNICATION LINE (UG)	--- COMM ---	--- COMM ---
CONTOUR (MAJOR)	--- XXX ---	--- XXX ---
CONTOUR (MINOR)	--- XXX ---	--- XXX ---
FENCE	--- X ---	--- X ---
FILTER SOCK	--- FS ---	--- FS ---
FIRE LINE	--- F ---	--- F ---
FORCE MAIN	--- FM ---	--- FM ---
GAS LINE	--- G ---	--- G ---
IRRIGATION	--- IRRG ---	--- IRRG ---
ORANGE CONSTRUCTION FENCE	--- OCF ---	--- OCF ---
POWER LINE (OVH)	--- OH ---	--- OH ---
POWER LINE (UG)	--- E ---	--- E ---
PROPERTY LINE	--- P ---	--- P ---
RIGHT-OF-WAY LINE	--- R/W ---	--- R / W ---
LEASE LINE	--- LL ---	--- LL ---
SILT FENCE	--- SF ---	--- SF ---
STEAM LINE	--- STEAM ---	--- STEAM ---
STORM LINE	--- ST ---	--- ST ---
SANITARY LINE	--- SAN ---	--- SAN ---
WATER LINE	--- W ---	--- W ---
UNDERDRAIN	---	--- 6" UB ---

CIVIL SYMBOL LEGEND		
DESCRIPTION	EXISTING	PROPOSED
BUILDING		
SIGN		
CURB STOP		
PIPE BOLLARD		
GAS LINE MARKER		
MONITORING WELL		
GAS METER		
GAS VALVE		
MONUMENT BOX		
POWER POLE WITH LIGHT		
POWER POLE		
PARKING LOT / PEDESTRIAN LIGHT POLE		
TELEPHONE POLE		
GUY WIRE		
TELECOM MANHOLE		
TREE		
SANITARY & STORM MANHOLE		
CATCH BASIN / CURB INLET		
CLEANOUT		
FIRE HYDRANT		
POST INDICATOR VALVE		
ELECTRIC MANHOLE		
WATER CURB STOP		
WATER METER VAULT		
WATER VALVE		
ELECTRIC TRANSFORMER		





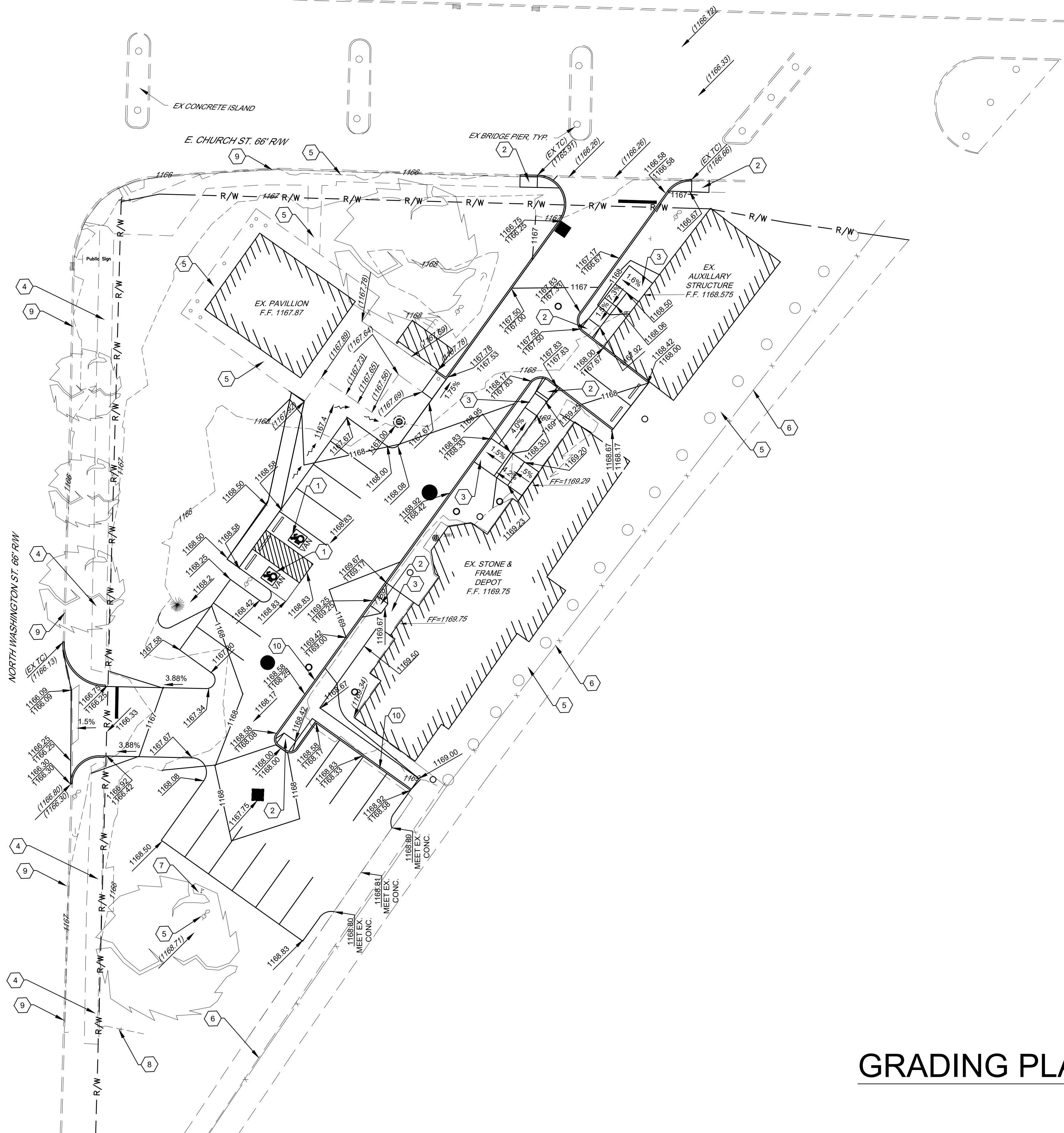
CIVIL LINE TYPE LEGEND		
DESCRIPTION	EXISTING	PROPOSED
CONTOUR (MAJOR)	--- 1165 ---	==== 1165
CONTOUR (MINOR)	--- 1168 ---	==== 1168

**LEGEND**

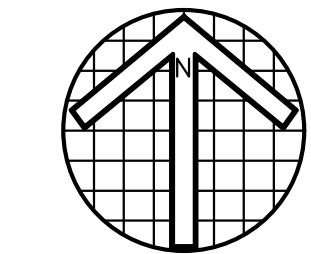
- 1167.25 → PROPOSED TOP OF CURB ELEVATION
- 1166.75 → PROPOSED BOTTOM OF CURB ELEVATION
- 1166.83 → PROPOSED SPOT ELEVATION
- (1167.25)---  
---(1166.75)--- → EXISTING TOP OF CURB ELEVATION  
EXISTING BOTTOM OF CURB ELEVATION
- (1168.71)--- → EXISTING SPOT ELEVATION

**(X) GRADING NOTES**

1. SLOPES WITHIN ADA PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.00% IN ANY DIRECTION
2. CURB RAMP WITH TRUNCATED DOMES
3. LANDING AREA (LESS THAN 2.00% ALL DIRECTIONS, MINIMUM 6'-0" LONG)
4. EXISTING SIDEWALK TO BE REPLACED UNDER ALTERNATE A-3
5. EXISTING SIDEWALK TO REMAIN
6. EXISTING FENCE TO REMAIN
7. EXISTING FLAGPOLE TO REMAIN
8. EXISTING HISTORICAL MARKER TO REMAIN
9. EXISTING CURB TO REMAIN
10. CURB HEIGHT VARIES SEE SPOT ELEVATIONS
11. RAMP NO TRUNCATED DOMES



**GRADING PLAN**



FULL SIZE SHEET (24"x36")  
SCALE: 1" = 20'-0"

Phase I Early Sitework Package for:

**Galion Big Four Depot Renovation**  
127 N. Washington Street  
Galion, Ohio 44833



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commission no. 2213

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11/13/2023  
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**GENERAL NOTES**

- A. AREA OF MINIMAL FLOOD HAZARD ZONE X, PER FEMA 39033C0256D EFFECTIVE 1/19/2011
- B. ALL CONSTRUCTION SHALL CONFORM TO CITY STANDARDS AND REGULATION, ODOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, WHICHEVER IS MORE STRINGENT.
- C. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER, ARCHITECT AND/OR OWNER, IN ORDER TO OBTAIN AND/OR PAY ALL THE NECESSARY LOCAL PERMITS, FEES AND BONDS.
- D. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (O.M.U.T.C.D.) AND ODOT STANDARDS AND ODOT SPECIFICATIONS (NON-REFLECTORIZED PAVEMENT MARKINGS), UNLESS OTHERWISE NOTED.
- E. ALL PARKING STALLS SHALL BE SEPARATED USING 4" WIDE SOLID STRIPES STRIPING APPLICATIONS AND MATERIAL SHALL COMPLY WITH DETAILS.
- F. ALL STOP BARS SHALL BE 12" IN WIDTH IN A COLOR OF WHITE. ALL TRAFFIC FLOW ARROWS SHALL BE PAINTED IN A COLOR OF WHITE. CROSSWALK SHALL BE PAINTED IN COLOR OF WHITE.
- G. ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL AND STRUCTURAL PLANS PROVIDED BY THE OWNER. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER PRIOR TO THE START OF CONSTRUCTION. BUILDING DIMENSIONS AND AREAS TO BE TO OUTSIDE OF THE MASONRY, UNLESS OTHERWISE NOTED.

**LEGEND**

- HEAVY DUTY ASPHALT PAVEMENT IN AISLES
- STANDARD DUTY ASPHALT PAVEMENT IN PARKING SPACES
- CONCRETE PAVEMENT NON REINFORCED IN ADA SPACES
- 4" CONCRETE SIDEWALK ALTERNATE A-1 4" CONCRETE SIDEWALK ALONG RIGHT OF WAY

**SITE LAYOUT NOTES**

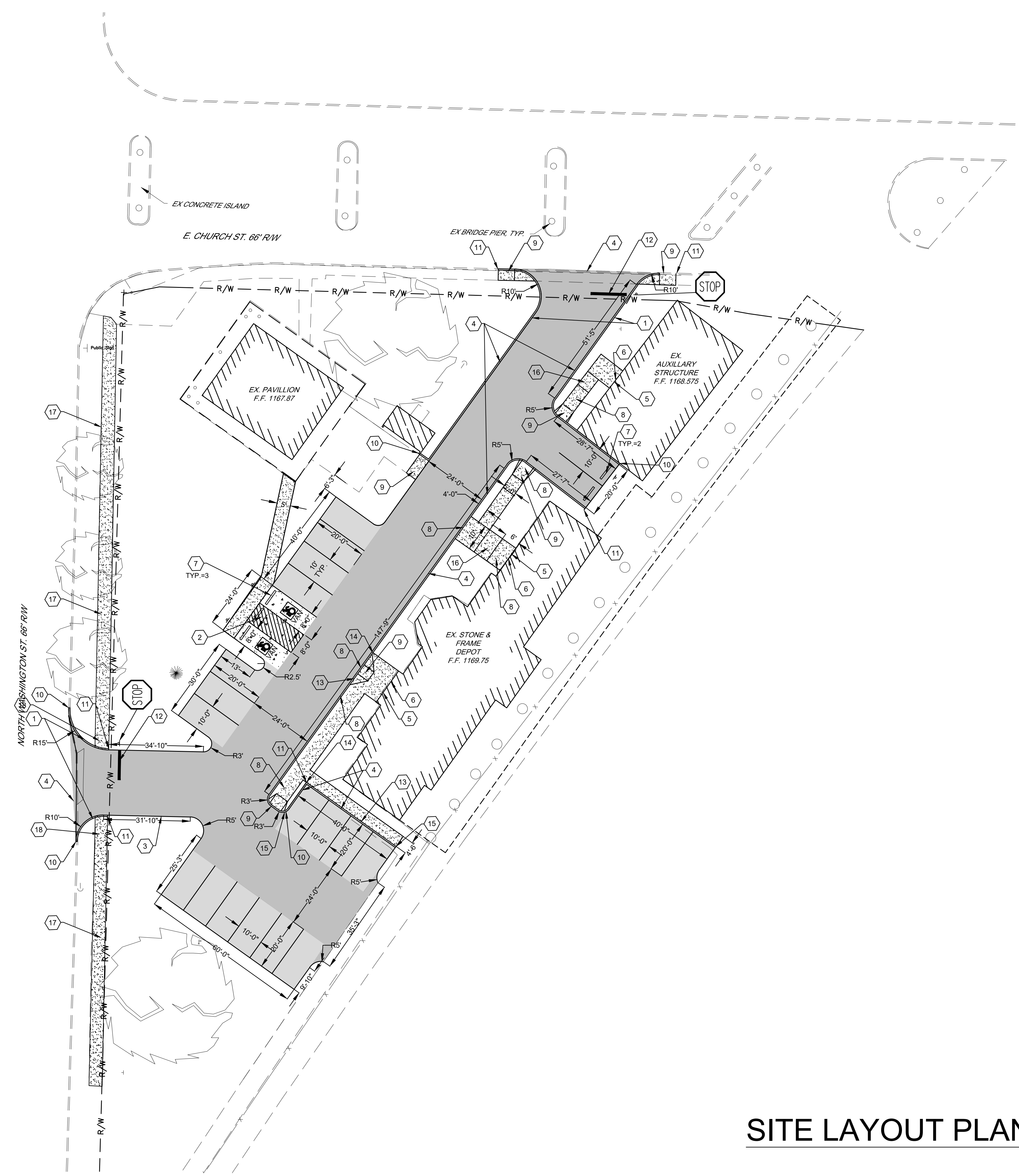
1. 6" CONCRETE CURB
2. CONCRETE ADA SPACES WITH SIGNS
3. ALL DIMENSIONS TO FACE OF CURB / EDGE OF PAVEMENT
4. SEE ALL JOINTS WHERE ASPHALT ABUTS CONCRETE, CURBS AND EXISTING ASPHALT PAVEMENT
5. EXPANSION JOINT
6. INSTALL FROST SLAB AT ALL DOORS
7. INSTALL WHEEL STOPS
8. LANDING AREA
9. PROPOSED ADA RAMP
10. BEGIN CURB
11. END CURB
12. 12" WIDE STOP BAR PLACE 4" BEHIND WALK
13. INTEGRAL CURB & SIDEWALK
14. BEGIN INTEGRAL CURB & SIDEWALK
15. END INTEGRAL CURB & SIDEWALK
16. RAMP WITHOUT TRUNCATED DOMES MAX. LENGTH 6'-0" / MAX RISE 5"
17. REPLACE SIDEWALK BID ALTERNATE A-1
18. CURB RAMP WITH TRUNCATED DOMES BID ALTERNATE A-1

**BID ALTERNATE # A-1**

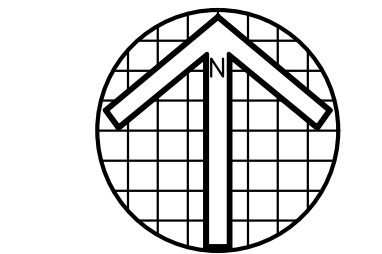
REMOVE AND REPLACE EXISTING SIDEWALK ALONG NORTH WASHINGTON STREET TO THE NEW WALK AT EAST CHURCH STREET. CONTRACTOR SHALL GUARANTEE BID PRICE FOR SIX MONTHS.

**CONSTRUCTION STAKING NOTE**

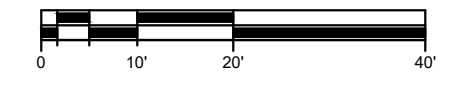
THE CONTRACTOR'S REGISTERED SURVEYOR SHALL CONTACT THE ENGINEER OF RECORD TO OBTAIN A COPY OF THE AUTOCAD FILE FOR CONSTRUCTION STAKING.



**SITE LAYOUT PLAN**



FULL SIZE SHEET (24"x36")  
 SCALE: 1" = 20'-0"



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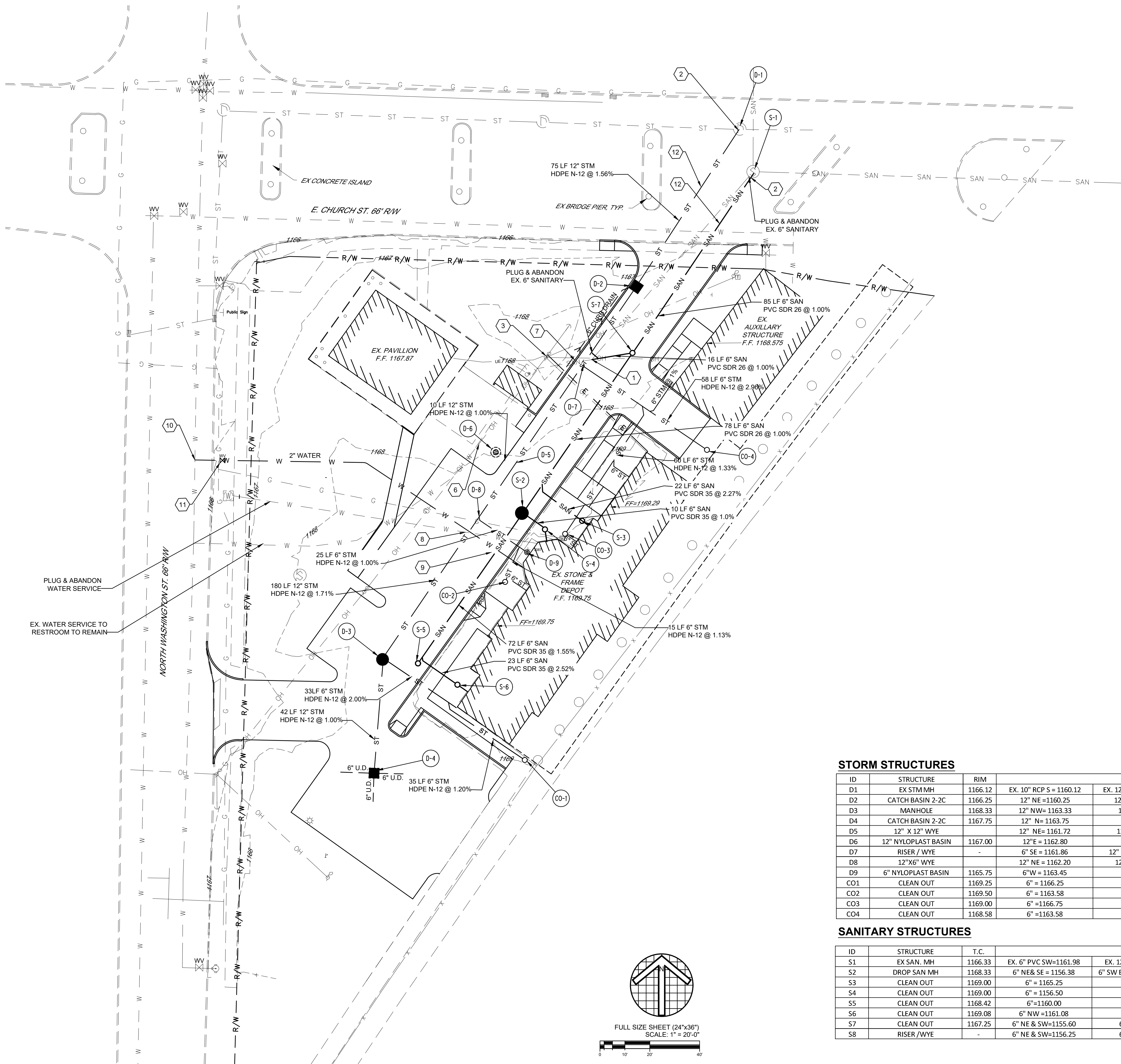
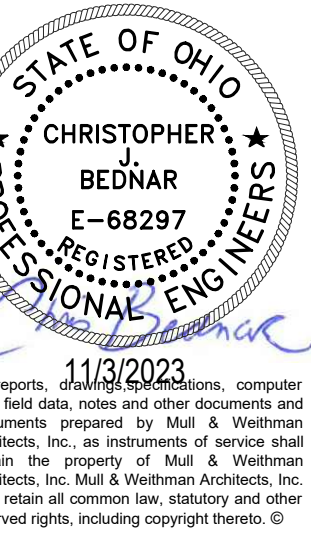


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**PIPE MATERIAL NOTES**

NATURAL GAS SERVICE BY GAS COMPANY, EXISTING METER AND SERVICE TO REMAIN.

WATER: COPPER TYPE K, NSF 61 PIPE

FIRE: DUCTILE IRON CL 52

STORM SEWER: HDPE N-12 SOIL TIGHT PIPE.

SANITARY - PVC SDR 26 AND SDR 35 (SEE PLANS)

ELECTRIC - SEE ELECTRICAL SITE PLAN

EXISTING STORM SEWER: RCP = CONCRETE  
VCP = CLAY  
UNK = UNKNOWN

EXISTING SANITARY SEWER: VCP = CLAY  
PVC = POLYVINYL CHLORIDE

**UTILITIES AND SERVICES**

WATER  
CITY OF GALION

WASTEWATER/SEWER  
CITY OF GALION

ELECTRIC  
CITY OF GALION

NATURAL GAS  
COLUMBIA GAS

**LEGEND**

- (DH) STORM STRUCTURE I.D.
- (SH) SANITARY STRUCTURE I.D.
- (WH) WATER/FIRE MAIN I.D.
- (H#) HYDRANT AND VALVE ASSEMBLY I.D.
- (CO#) STORM CLEAN OUT I.D.

**UTILITY NOTES**

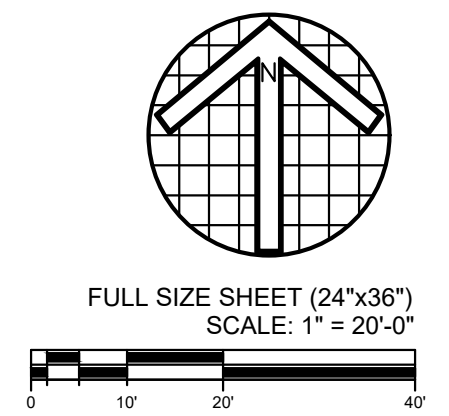
1. CUT EXISTING 6" SANITARY PVC INSTALL WATERTIGHT JOINT AND CONTINUE 6" SANITARY TO NEW 6" SANITARY SEWER IN DRIVEWAY. ABANDON EXISTING 6" SANITARY IN PLACE.
2. CORE EXISTING MANHOLE AND INSTALL NEW SEWER WITH WATERTIGHT CONNECTION.
3. INSTALL NEW ELECTRIC SERVICE FROM EXISTING TRANSFORMERS ON POLE. INSTALL NEW CONDUIT DOWN POLE AND UNDERGROUND AS SHOWN TO EXISTING DEPOT. SEE ELECTRICAL PLANS.
4. EXISTING WATER SERVICE SHALL BE PLUGGED AND ABANDONED IN PLACE.
5. EXISTING SANITARY CONNECTION SHALL BE PLUGGED AND ABANDONED IN PLACE.
6. FIELD LOCATE EXISTING WATER CONNECTION AND OFFSET NEW NYLOPLAST INLET 6 FEET AWAY FROM WATER CONNECTION
7. FIELD VERIFY EX. 6" INVERT AND REPROT TO ENGINEER OF RECORD PRIOR TO ORDERING SANITARY SEWER MANHOLES
8. DEFLECT WATER MAIN UNDER STORM TO PROVIDE 18" MIN. CLEARANCE
9. PROVIDE MINIMUM 18" CLEARANCE BETWEEN SANITARY AND WATER
10. PROVIDE NEW TAP AT MAIN AND REMOVE AND REPLACEMENT PAVEMENT OVER SEWER TRENCH PER DETAIL ON PLANS
11. INSTALL WATER SERVICE SHUT OFF VALVE
12. REPAIR PAVEMENT OVER SEWER TRENCH PER THE DETAIL ON THE PLANS

**STORM STRUCTURES**

ID	STRUCTURE	RIM	INVERTS				
D1	EX STM MH	1166.12	EX. 10" RCP S = 1160.12	EX. 12" CLAY N = 1158.92	EX. 15" RCP W = 1158.92	EX. 15" RCP E = 1158.82	12" SW = 1159.08
D2	CATCH BASIN 2-2C	1166.25	12" NE = 1160.25	12" SW = 1160.25			
D3	MANHOLE	1168.33	12" NW = 1163.33	12" S = 1163.33	6" SE = 1165.50		
D4	CATCH BASIN 2-2C	1167.75	12" N = 1163.75				
D5	12" X 12" WYE	-	12" NE = 1161.72	12" W = 1162.72			
D6	12" NYLOPLAST BASIN	1167.00	12" E = 1162.80				
D7	RISER / WYE	-	6" SE = 1161.86	12" NE & SW = 1160.86			
D8	12" X 6" WYE	-	12" NE = 1162.20	12" SW = 1162.20	6" SE = 1163.20		
D9	6" NYLOPLAST BASIN	1165.75	6" W = 1163.45				
CO1	CLEAN OUT	1169.25	6" = 1166.25				
CO2	CLEAN OUT	1169.50	6" = 1163.58				
CO3	CLEAN OUT	1169.00	6" = 1166.75				
CO4	CLEAN OUT	1168.58	6" = 1163.58				

**SANITARY STRUCTURES**

ID	STRUCTURE	T.C.	INVERTS			
S1	EX SAN. MH	1166.33	EX. 6" PVC SW = 1161.98	EX. 12" CLAY E = 1153.99	EX. 15" CLAY N = 1153.97	6" PVC SW = 1154.75
S2	DROP SAN MH	1168.33	6" NE & SE = 1156.38	6" SW BOT DROP = 1156.38	6" TOP SW DROP = 1158.88	
S3	CLEAN OUT	1169.00	6" = 1165.25			
S4	CLEAN OUT	1169.00	6" = 1156.50			
S5	CLEAN OUT	1168.42	6" = 1160.00			
S6	CLEAN OUT	1169.08	6" NW = 1161.08			
S7	CLEAN OUT	1167.25	6" NE & SW = 1155.60	6" W = 1155.60		
S8	RISER / WYE	-	6" NE & SW = 1156.25	6" W = 1164.75		



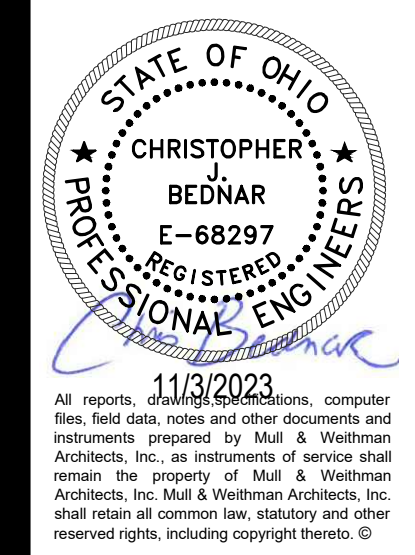
**SITE UTILITY PLAN**

Phase I Early Sitework Package for:  
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 Galion, Ohio 44833

**M&W**

*mull & weisman architects, inc.*  
 4525 indianola avenue, columbus, ohio 43214  
 614-267-6960 614-267-6978 fax

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SWPPP LEGEND		BMPs UTILIZED ON THIS PROJECT "X"
	STORM DRAIN INLET PROTECTION AT ALL INLETS	X
	TEMPORARY SEEDING	X
	PERMANENT SEEDING	X
	DUST CONTROL	X
	CONCRETE WASHOUT	X
	FILTER SOCK	X
	SILT FENCE	X
	CONSTRUCTION DEBRIS DUMPSTER	X
	FUEL CONTAINMENT DYKE	X
	CONSTRUCTION ENTRANCE MAY USE EX ASPHALT IN PLACE	X

**EXISTING DISCHARGE QUALITY**  
 STORM WATER DISCHARGE QUALITY FROM SITE HAS NOT BEEN TESTED AND IS ASSUMED TO BE CONSISTENT WITH THAT OF TYPICAL DEVELOPED PROPERTIES IN THE AREA

**SITE DATA**

(MARK ONE)

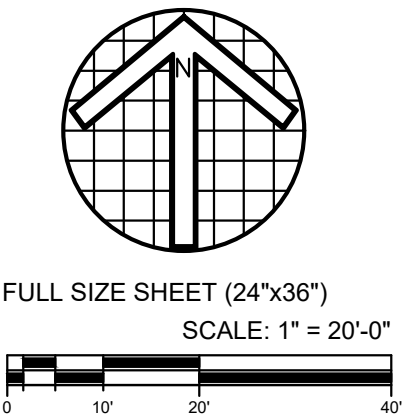
SUBDIVISION	( )	
COMMERCIAL	( )	
RESIDENTIAL	( )	
P.U.D.	( )	
ROADWAY	( )	
OTHER	( X )	TRAIN DEPOT
SITE AREA		± 1.35 ACRES
DISTURBED AREA		± 0.71 ACRES

**SOILS**

SOILS: URBAN LAND & BENNINGTON-URBAN LAND  
 HYDRAULIC GROUP: URBAN (UR) UNRANKED - ASSUMED HSG D  
 BENNINGTON (BhB) - HSG C/D

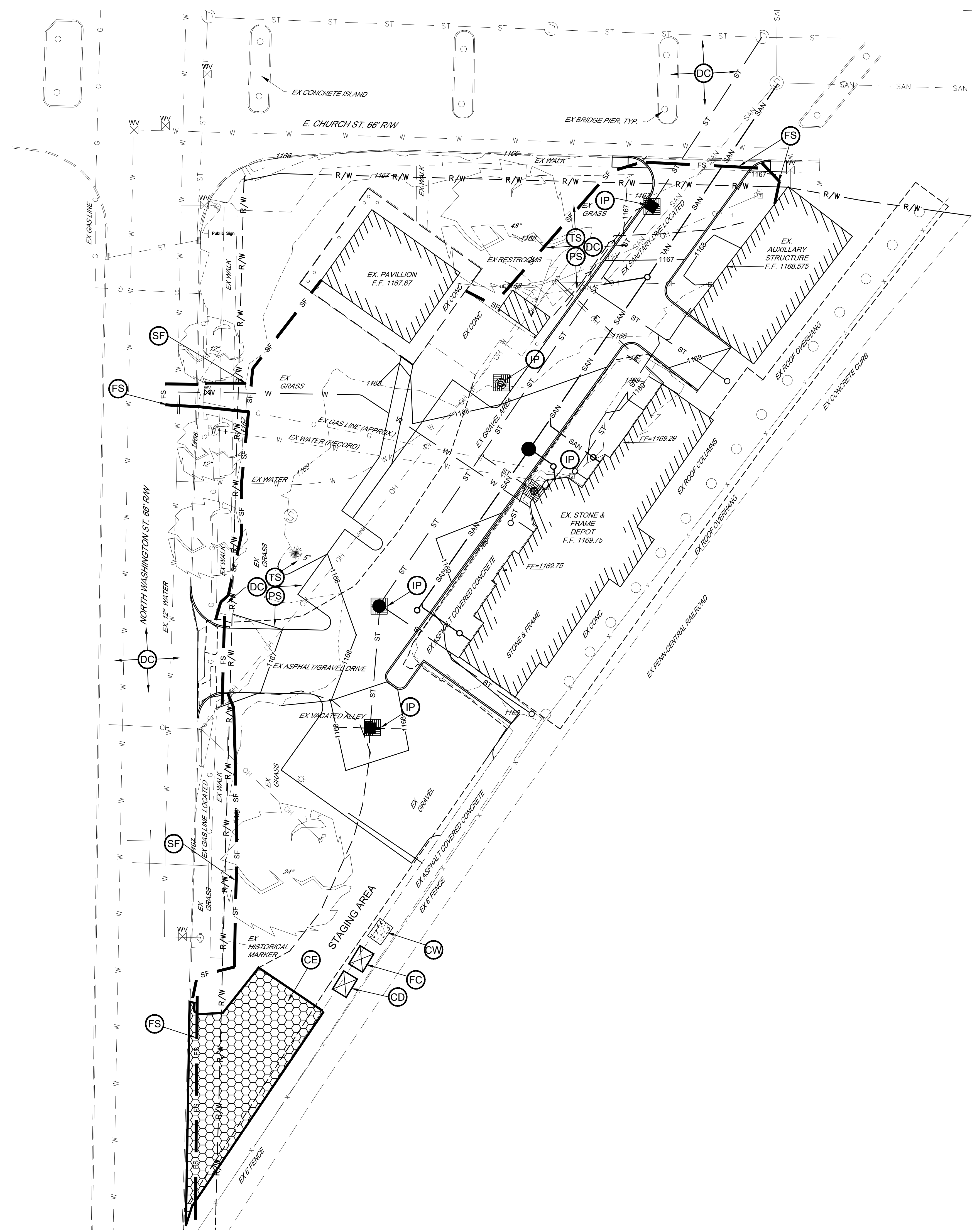
**SITE LOCATION**

CITY: GALION  
 COUNTY: CRAWFORD  
 STATE: OHIO  
 LATITUDE: 40° 40' 22"  
 LONGITUDE: 82° 35' 11"  
 SITE ADDRESS: 127 N. WASHINGTON STREET  
 OWNER ADDRESS: CITY OF GALION  
 301 HARDING WAY EAST  
 GALION, OHIO 44833  
 CONTACT: ERIC BALDINGER, BUILDING INSPECTOR  
 PHONE: 419-468-2842  
 EMAIL: ERICBALDINGER@GALION.CITY



FULL SIZE SHEET (24"x36")  
 SCALE: 1" = 20'-0"

# SWPP PLAN



Phase I Early Sitework Package for:

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**CONSTRUCTION SEQUENCE**

- PRE-CONSTRUCTION MEETING.
- ESTABLISH CONSTRUCTION OFFICE ON SITE. ESTABLISH TEMPORARY UTILITIES AS NEEDED. ALL TEMPORARY UTILITY SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- STAKEOUT LIMITS OF DISTURBANCE.
- INSTALL INLET PROTECTION (DANDY BAGS OR APPROVED EQUAL) FOR ANY GRATED STORM STRUCTURES.
- INSTALL SILT FENCE, FILTER SOCK (OR APPROVED EQUAL) AROUND PERIMETER OF ENTIRE SITE EXCEPT AT MAN GATES AND VEHICLE CONSTRUCTION ENTRANCES/ GATES.
- REMOVE SOIL AS NEEDED AND CONSTRUCT TEMPORARY GRAVEL CONSTRUCTION ROAD AS SHOWN ON PLANS. GRAVEL ROAD IS TO BE CONSTRUCTED OVER A WELL COMPACTED SUBGRADE (ODOT ITEM 204) AND CONSIST OF GEOTEXTILE FABRIC (ODOT ITEM 712.09, ITEM D), 9" THICK LAYER OF (AASHTO M 43) NO. 1'S & NO. 2'S, AND CHOKED OFF WITH 6" ODOT 57 CRUSHED STONE. PORTIONS OF THIS GRAVEL ROAD WILL SERVE AS A CONSTRUCTION ENTRANCES WHERE GATES ARE NOTED. POWER BROOM AND/OR CLEAN ADJACENT ROADWAYS ON A DAILY BASIS AND AS REQUIRED. REMOVE ALL DEBRIS FROM SITE. TEMPORARY CONSTRUCTION DRIVE IS TO BE REMOVED NEAR SUBSTANTIAL COMPLETION AND REPLACED WITH TOPSOIL & SEED OR WALKS & DRIVES AS SHOWN ON SITE PLAN.
- CONSTRUCTION MANAGER/CONTRACTOR TO ANNOTATE LOCATION OF TEMPORARY FACILITIES (WORK TRAILERS, SANITARY FACILITIES, CONTRACTOR PARKING, STORAGE AREAS, LAYDOWN AREAS, ETC.) ON THE APPROVED PLAN SET AND LOG THE CHANGES.
- MAINTAIN TEMPORARY CONTROLS UNTIL REMOVAL IS WARRANTED DUE TO PROGRESSION OF WORK AND STABILIZATION OF SITE
- BEGIN EARTHWORK OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER OF LOCATION AND EROSION SEDIMENTATION CONTROL MEASURES IMPLEMENTED AT BORROW OR SPILL SITE OF IMPORT/EXPORT MATERIAL.
- STORM SEWER AND UTILITY LINE CONSTRUCTION MAY BEGIN IMMEDIATELY FOLLOWING ESTABLISHMENT OF GRADE AND PERMISSION OF THE OWNER/CM
- STABILIZE ALL UTILITY TRENCHES AT THE END OF EACH WORKDAY BY MEANS OF GRAVEL BACKFILL TO SURFACE, RE-PAVING OR MULCHING.
- STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, PERMANENT SEED AND MULCHING IMMEDIATELY UPON REACHING FINAL GRADE.
- INSTALL PAVEMENT BASE, WALK, AND PAVEMENT.
- COMPLETE SITE WORK, FINAL LANDSCAPING AND CLEANUP.
- RESEED AND REDRESS ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY.
- ALL EROSION MEASURES SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED. ALL AREAS OF VEGETATIVE SURFACE STABILIZATION, WHETHER TEMPORARY OR PERMANENT, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (80%) IS OBTAINED.
- IF FOR ANY REASON THE PROJECT IS SUSPENDED, THE CONTRACTOR SHALL ENSURE THAT ALL INSTALLED EROSION MEASURES ARE FUNCTIONING AND PROPERLY MAINTAINED DURING THIS PERIOD, AND THAT ALL DISTURBED SOILS ARE SEEDED AND MULCHED WITH TEMPORARY SEED MIXTURE UNTIL FINAL SEEDING. LANDSCAPE CONTRACTOR IS RESPONSIBLE TO MAINTAIN LAWN UNTIL SUBSTANTIAL COMPLETION (2017)
- REPLACE APRON AND SIDEWALK AS THE CONSTRUCTION ENTRANCE.

**MAINTENANCE/INSPECTION PROCEDURES**

**EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES**

ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED THROUGHOUT CONSTRUCTION TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UP-SLOPE AREAS THEY CONTROL ARE PERMANENTLY STABILIZED.

**INSPECTIONS (MINIMUM REQUIREMENTS)**

- ALL CONTROLS ARE TO BE INSPECTED ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24 HOUR PERIOD. THE INSPECTION PERIOD MAY BE REDUCED TO AT LEAST ONCE EVERY MONTH IF THE ENTIRE SITE IS TEMPORARILY STABILIZED OR RUNOFF IS UNLIKELY. ONCE A DEFINABLE AREA HAS BEEN FINALLY STABILIZED NO FURTHER INSPECTION REQUIREMENTS APPLY TO THAT PORTION OF THE SITE.
- A CHECKLIST MUST BE COMPLETED AND SIGNED BY A QUALIFIED INSPECTION PERSONNEL AND INCLUDE THE FOLLOWING:
  - INSPECTION DATE
  - NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION
  - WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION OR COMMENCEMENT OF CONSTRUCTION ACTIVITY (INCLUDE ANY STORM ACTIVITY - DURATION, INTENSITY, DISCHARGES)
  - LOCATION OF ANY SEDIMENT OR OTHER POLLUTANT DISCHARGES FROM THE SITE
  - LOCATION OF BMPs THAT NEED TO BE INSTALLED AND/OR MAINTAINED
  - LOCATION OF BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE
  - CHECK FOR ANY EVIDENCE OF POLLUTANTS FROM STORED MATERIALS ENTERING THE DRAINAGE SYSTEM
  - CORRECTIVE ACTION (INSTALLATION, REPAIRS, MODIFICATIONS TO SWPPP PLAN AND IMPLEMENTATION DATES)
  - A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR. THE SITE SUPERINTENDENT WILL SELECT INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
  - COPIES OF THE REPORT ARE TO BE SENT TO THE OWNER, TOWNSHIP OR COUNTY ENGINEER & LOCAL SOIL & WATER CONSERVATION DISTRICT

**REPAIR SCHEDULE OF SWPPP CONTROLS**

A CONTROL PRACTICE, EXCEPT A SEDIMENT SETTLING POND, THAT IS IN NEED OF REPAIR OR MAINTENANCE MUST BE REPAIRED WITH 3 DAYS OF THE INSPECTION. IF APPLICABLE, SEDIMENT SETTLING PONDS MUST BE REPAIRED OR MAINTAINED WITHIN 10 DAYS OF THE INSPECTION. IF THE SPECIFIED CONTROL PRACTICE IS DEEMED INADEQUATE OR WAS NOT YET INSTALLED A NEW CONTROL PRACTICE MUST BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.

**MAINTENANCE REQUIREMENTS DURING CONSTRUCTION (WHERE APPLICABLE)**

- BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE
- SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. REPAIRS ARE TO BE MADE PROMPTLY.
- IF APPLICABLE, THE SEDIMENT BASIN WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 40 PERCENT OF THE DESIGN CAPACITY/TOWNSHIP OR COUNTY OR AT THE END OF THE JOB.
- IF APPLICABLE, DIVERSION DIKES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED
- TEMPORARY AND PERMANENT SEEDING AND PLANTINGS WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

**DEWATERING REQUIREMENTS DURING CONSTRUCTION**

THERE SHALL BE NO SEDIMENT-LADEN DISCHARGES TO SURFACE WATERS RESULTING FROM DEWATERING ACTIVITIES. SHOULD DEWATERING BE REQUIRED, E.G., FROM TRENCHES, ETC., DURING CONSTRUCTION, ALL WATER SHALL BE PUMPED TO THE TEMPORARY SEDIMENT BASINS, IF POSSIBLE, BEFORE BEING RELEASED TO DOWNSTREAM CHANNELS, STORM SEWERS, ETC. IF A TEMPORARY SEDIMENT BASIN IS NOT SHOWN ON THE PLAN, OR NOT ACHIEVABLE FOR DEWATERING, THE WATER SHALL BE PUMPED INTO A SEDIMENT TRAP OR THROUGH SEDIMENT BAGS ONTO A RELATIVELY FLAT SURFACE AWAY FROM INLET BASINS, STREAMS, ETC.

**POST-CONSTRUCTION INSPECTION PROCEDURE**

- (NA) THE SITE SHALL BE MAINTAINED PER THE POST-CONSTRUCTION MAINTENANCE PLAN FOLLOWING THE SUBMITTAL OF THE N.O.T.
- THE PROPERTY OWNER OR THE OWNER'S AUTHORIZED REPRESENTATIVE(S) IS RESPONSIBLE FOR THE INSPECTION OF THE PERMANENT SWPPP CONTROLS, DISCHARGES FROM THE SITE AND ANY SEDIMENT ACCUMULATIONS.
- MAINTENANCE COSTS, IF INSPECTED BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE(S) WILL BE PAID BY THE OWNER.
- REGULAR INSPECTIONS, ESPECIALLY FOLLOWING MAJOR STORM EVENTS, WILL REQUIRE AN INSPECTION REPORT THAT SHALL BE KEPT BY THE OWNER FOR A PERIOD OF THREE YEARS. A COPY OF THE REPORT IS TO BE SUBMITTED TO THE TOWNSHIP OR COUNTY'S ENGINEERING DEPARTMENT (IF REQUIRED)

**POST CONSTRUCTION STORMWATER MANAGEMENT PRACTICES**

POST-CONSTRUCTION STORM WATER MANAGEMENT PRACTICES TREAT RUNOFF FROM A DEVELOPMENT SITE AFTER CONSTRUCTION IS COMPLETE.

**TEMPORARY SEEDING (TS)**

DESCRIPTION

TEMPORARY SEEDINGS ESTABLISH TEMPORARY COVER ON DISTURBED AREAS BY PLANTING APPROPRIATE RAPIDLY GROWING ANNUAL GRASSES OR SMALL GRAINS. TEMPORARY SEEDING PROVIDES EROSION CONTROL ON AREAS IN BETWEEN CONSTRUCTION OPERATIONS. GRASSES, WHICH ARE QUICK GROWING, ARE SEEDED AND USUALLY MULCHED TO PROVIDE PROMPT, TEMPORARY SOIL STABILIZATION. IT EFFECTIVELY MINIMIZES THE AREA OF A CONSTRUCTION SITE PRONE TO EROSION AND SHOULD BE USED EVERYWHERE THE SEQUENCE OF CONSTRUCTION OPERATIONS ALLOWS VEGETATION TO BE ESTABLISHED.

**SPECIFICATIONS FOR TEMPORARY SEEDING**

TEMPORARY SEEDING SPECIES SELECTION				
SEEDING DATES	SPECIES	LB./1,000 SF	LB./ACRE	
MARCH 1 TO AUGUST 15	OATS	3	128 (4 BUSHEL)	
	TALL FESCUE	1	40	
	ANNUAL RYEGRASS	1	40	
	PERENNIAL RYEGRASS	1	40	
	TALL FESCUE	1	40	
	ANNUAL RYEGRASS	1	40	
	ANNUAL RYEGRASS	1.25	55	
	PERENNIAL RYEGRASS	3.25	142	
	CREeping RED FESCUE	0.4	17	
	KENTUCKY BLUEGRASS	0.4	17	
AUGUST 16 TO NOVEMBER	OATS	3	128 (3 BUSHEL)	
	TALL FESCUE	1	40	
	ANNUAL RYEGRASS	1	40	
	RYE	3	112 (2 BUSHEL)	
	TALL FESCUE	1	40	
	ANNUAL RYEGRASS	1	40	
	WHEAT	3	120 (2 BUSHEL)	
	TALL FESCUE	1	40	
	ANNUAL RYEGRASS	1	40	
	PERENNIAL RYEGRASS	1	40	
NOVEMBER 1 TO FEB. 29	TALL FESCUE	1	40	
	ANNUAL RYEGRASS	1.25	40	
	PERENNIAL RYEGRASS	3.25	40	
	CREeping RED FESCUE	0.4	40	
	KENTUCKY BLUEGRASS	0.4	0	
	USE MULCH ONLY OR DORMANT SEEDING			

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED.

**NOTES:**

- STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.
- TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 21 DAYS OR GREATER. THESE IDLE AREAS SHALL BE SEEDED WITHIN 7 DAYS AFTER GRADING.
- THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. TEMPORARY SEEDING SHOULD NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.
- SOIL AMENDMENTS - TEMPORARY VEGETATION SEEDING RATES SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION, WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. BASE RATES FOR LIME AND FERTILIZER SHALL BE USED.
- SEEDING METHOD - SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

**MULCHING TEMPORARY SEEDING**

- APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH, WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES ON FAVORABLE, VERY FLAT SOIL CONDITIONS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.
- MATERIALS
  - STRAW - IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT A RATE OF 2 TONS/ACRE OR 90 LBS./1,000 SQ.-FT. (2-3 BALES)
  - HYDROSEEDERS - IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LBS./AC. OR 46 LB./1,000 SQ.-FT.
  - OTHER - OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TON/AC.
- STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS:
  - MECHANICAL - A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL.
  - STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT LEFT TO A LENGTH OF APPROXIMATELY 6 INCHES.
  - MULCH NETTING - NETTING SHALL BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
  - SYNTHETIC BINDERS - SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TRACK OR EQUIVALENT MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.
  - WOOD-CELLULOSE FIBER - WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WT. OF 750 LB./AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL.

**DUST CONTROL (DC)**

DESCRIPTION

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIR-BORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

**SPECIFICATIONS FOR DUST CONTROL**

- VEGETATIVE COVER AND MULCH - APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 21 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
- WATERING - SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAIL, ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- SPRAY-ON ADHESIVES - APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURER'S INSTRUCTIONS.
- STONE - GRADED ROADWAYS AND OTHER SUITABLE AREAS WILL BE STABILIZED USING CRUSHED STONE OR COARSE GRAVEL AS SOON AS PRACTICABLE AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT COVER TO PROVIDE CONTROL OF SOIL EMISSIONS.
- BARRIERS - EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED. SNOW FENCING OR OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHT TO CONTROL AIR CURRENTS AND BLOWING SOIL.
- CALCIUM CHLORIDE - THIS CHEMICAL MAY BE APPLIED BY MECHANICAL SPREADER AS LOOSE, DRY GRANULES OR FLAKES AT A RATE THAT KEEPS THE SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE. APPLICATION RATES SHOULD BE STRICTLY IN ACCORDANCE WITH SUPPLIER'S SPECIFIED RATES.
- OPERATION AND MAINTENANCE - WHEN TEMPORARY DUST CONTROL MEASURES ARE USED, REPETITIVE TREATMENT SHOULD BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL. STREET CLEANING - PAVED AREAS THAT HAVE ACCUMULATED SEDIMENT FROM CONSTRUCTION SHOULD BE CLEANED DAILY, OR AS NEEDED, UTILIZING A STREET SWEEPER OR BUCKET-TYPE ENDLOADER OR SCRAPER.

**ADHESIVES FOR DUST CONTROL**

ADHESIVE	WATER DILUTION (ADHESIVE: WATER)	NOZZLE TYPE	APPLICATION RATE (GAL./AC.)
LATEX EMULSION	12.5:1	FINE	235
RESIN IN WATER ACRYLIC EMULSION (NO-TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO-TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350

**PERMANENT SEEDING (PS)**

SITE PREPARATION

- SUBSOILER, PLOW, OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION. (MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY.) SUBSOILING SHOULD BE DONE WHEN THE SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING SHALL NOT BE DONE ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION.
- THE SITE SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.
- TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.

**SEEDBED PREPARATION**

- LIME-AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACID SOIL AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 POUNDS PER 1,000-SQ. FT. OR 2 TONS PER ACRE.
- FERTILIZER-FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN PLACE OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AT A RATE OF 25 POUNDS PER 1,000-SQ. FT. OR 1000 POUNDS PER ACRE OF A 10-10-10 OR 12-12-12 ANALYSES.
- THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 INCHES. ON SLOPING LAND, THE SOIL SHALL BE WORKED ON THE CONTOUR.

**SEEDING DATES AND SOIL CONDITIONS**

SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THE ABOVE-SPECIFIED DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHOULD BE DONE WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. FOR WINTER SEEDING, SEE THE FOLLOWING SECTION ON DORMANT SEEDING.

**DORMANT SEEDINGS**

- SEEDINGS SHOULD NOT BE MADE FROM OCTOBER 1 THROUGH NOVEMBER 20. DURING THIS PERIOD, THE SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.
- THE FOLLOWING METHODS MAY BE USED FOR 'DORMANT SEEDING':
  - FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOVEMBER 20, AND BEFORE MARCH 15, BROADCAST THE SELECTED SEED MIXTURE. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
  - FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDBED, LIME AND FERTILIZE, APPLY THE SELECTED SEED MIXTURE, MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
  - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) ON A FIRM, MOIST SEEDBED.
  - WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER
  - IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND, SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHERE FEASIBLE.

**MULCHING**

- MULCH MATERIAL SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. DORMANT SEEDING SHALL BE MULCHED. 100% OF THE GROUND SURFACE SHALL BE COVERED WITH AN APPROVED MATERIAL.
- MATERIALS
  - STRAW-IF STRAW IS USED IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE OR 90 POUNDS (TWO TO THREE BALES) PER 1,000-SQ. FT. THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY APPLIED SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000-SQ.-FT. SECTIONS AND SPREAD TWO 45-LB. BALES OF STRAW IN EACH SECTION.
  - HYDROSEEDERS-IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE APPLIED AT 2,000 LB./AC. OR 46 LB./1,000 SQ. FT.
  - OTHER-OTHER ACCEPTABLE MULCHES INCLUDE ROLLED EROSION CONTROL MATTINGS OR BLANKETS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS PER ACRE.

**1.STRAW AND MULCH ANCHORING METHODS**

- STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.
- MECHANICAL-A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY, BE LEFT LONGER THAN 6 INCHES.
- MULCH NETTING-NETTING SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
- ASPHALT EMULSION-ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURE OR AT THE RATE OF 160 GALLONS PER ACRE.
- SYNTHETIC BINDERS-SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUIVALENT MAY BE USED AT RATES SPECIFIED BY THE MANUFACTURER.
- WOOD CELLULOSE FIBER-WOOD CELLULOSE FIBER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER WITH THE MIXTURE CONTAINING A MAXIMUM OF 50 POUNDS CELLULOSE PER 100 GALLONS OF WATER.

**IRRIGATION**

PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY WEATHER OR ON ADVERSE SITE CONDITIONS, WHICH REQUIRE ADEQUATE MOISTURE FOR SEED GERMINATION AND PLANT GROWTH. IRRIGATION RATES SHALL BE MONITORED TO PREVENT EROSION AND DAMAGE TO SEEDED AREAS FROM EXCESSIVE RUNOFF.

Seed Mix	Seeding Rate		Notes:
	Lbs./acre	Lbs./1,000 Sq. Feet	
General Use			
Creeping Red Fescue	20-40	1/2-1	For close mowing & for waterways with <2.0 ft/sec velocity
Domestic Ryegrass	10-20	1/4-1/2	
Kentucky Bluegrass	20-40	1/2-1	
Tall Fescue	40-50	1-1 1/4	
Turf-type (dwarf) Fescue	90	2 1/4	
Steep Banks or Cut Slopes			
Tall Fescue	40-50	1-1 1/4	
Crown Vetch	10-20	1/4-1/2	Do not seed later than August
Tall Fescue	20-30	1/2-3/4	
Flat Pea	20-25	1/2-3/4	Do not seed later than August
Tall Fescue	20-30	1/2-3/4	
Road Ditches and Swales			
Tall Fescue	40-50	1-1 1/4	
Turf-type (Dwarf) Fescue	90	2 1/4	
Kentucky Bluegrass	5	0.1	
Lawns			
Kentucky Bluegrass	100-120	2	
Perennial Ryegrass		2	
Kentucky Bluegrass	100-120	2	For shaded areas
Creeping Red Fescue		1-1/2	

Note: Other approved seed species may be substituted.



11/3/2023  
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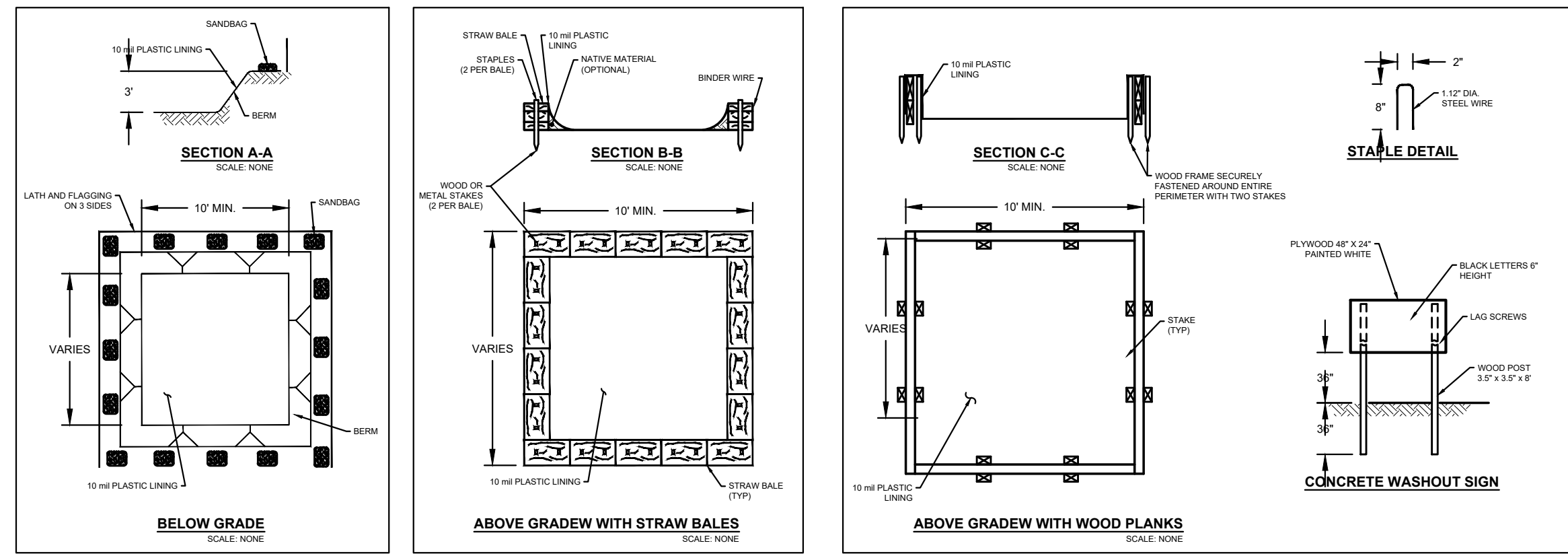
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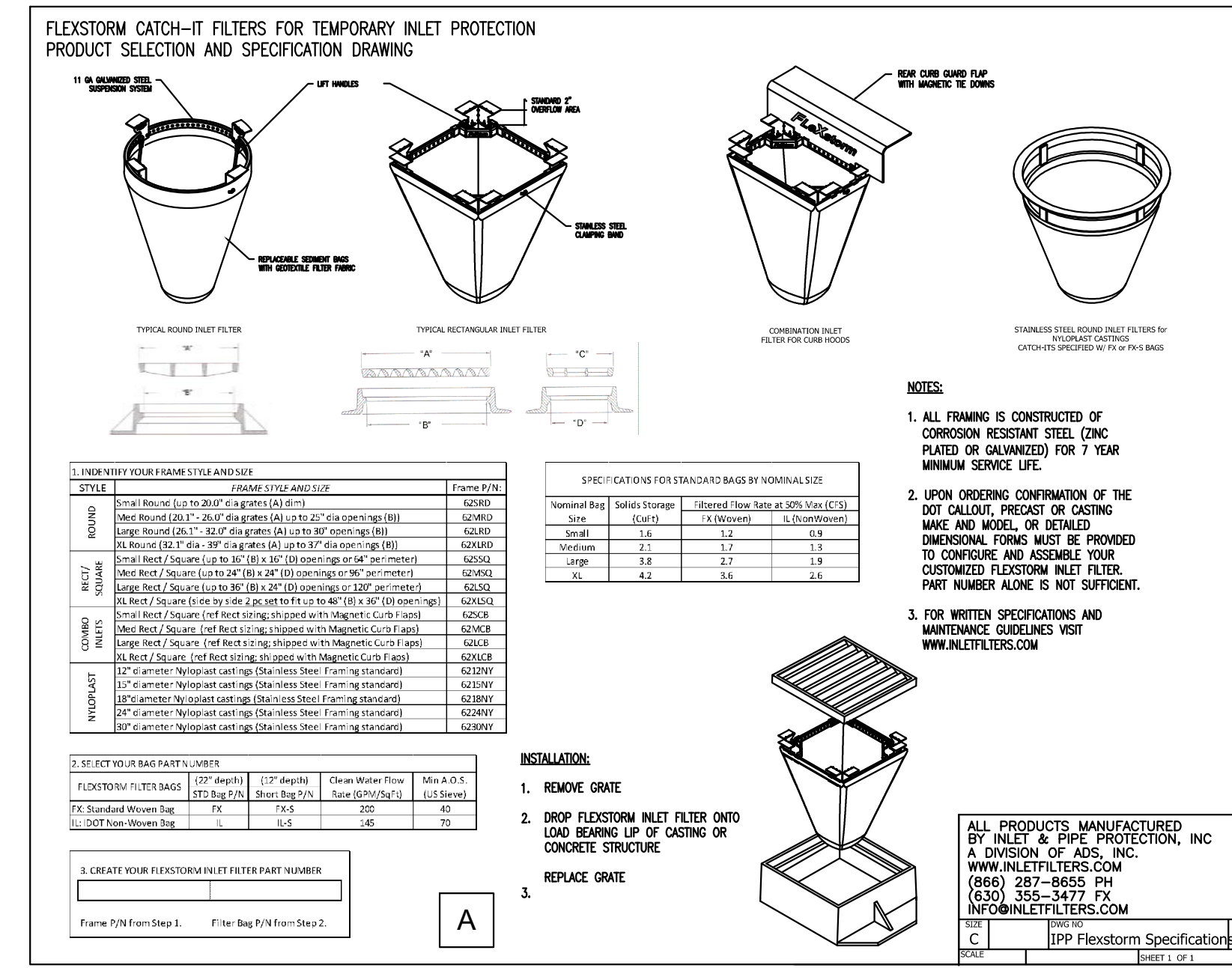
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2.1  
**SWPPP DETAILS**



**CONCRETE WASHOUT DETAILS**  
 SCALE: NONE



- NOTES:**
- ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
  - A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30'-0" OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
  - MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
  - HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.
- CWA INSTALLATION NOTES**
- THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
  - BERM SURROUNDING SIDES AND BACK OF CWA SHALL HAVE A MINIMUM HEIGHT OF 1'-0".
  - SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
  - USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

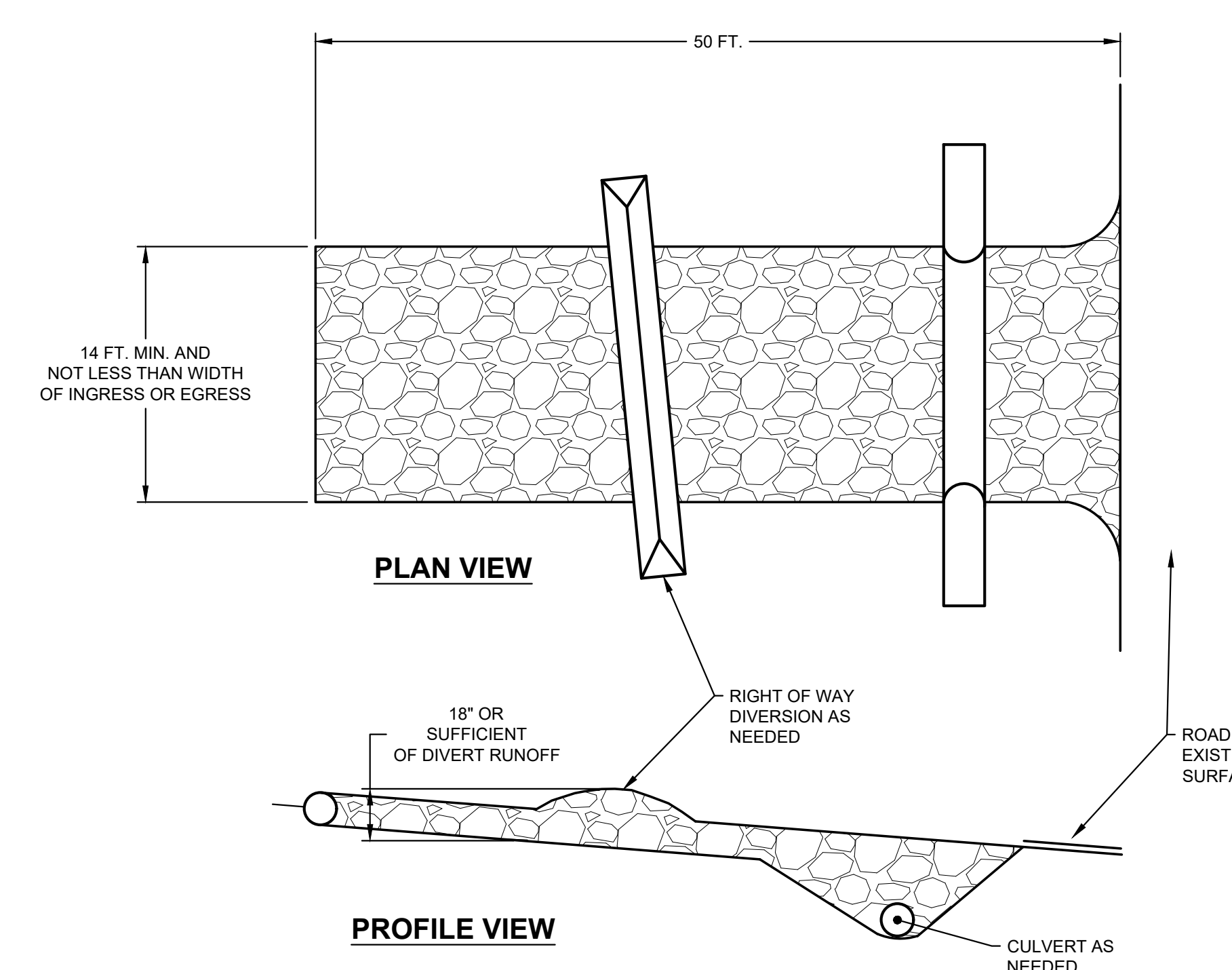
- CWA MAINTENANCE NOTES**
- INSPECT BMP'S EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMP'S SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMP'S AS SOON AS POSSIBLE (AND ALWAYS WITH 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMP'S IN EFFECTIVE OPERATING CONDITIONS. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMP'S HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'-0".
  - CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
  - THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
  - WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

**CONSTRUCTION ENTRANCE (CE)**

**DESCRIPTION**

A CONSTRUCTION ENTRANCE IS A STABILIZED PAD OF STONE UNDERLAIN WITH A GEOTEXTILE AND IS USED TO REDUCE THE AMOUNT OF MUD TRACKED OFF-SITE WITH CONSTRUCTION TRAFFIC. LOCATED AT POINTS OF INGRESS/EGRESS, THE PRACTICE IS USED TO REDUCE THE AMOUNT OF MUD TRACKED OFF-SITE WITH CONSTRUCTION TRAFFIC.

**SPECIFICATIONS FOR CONSTRUCTION ENTRANCE**

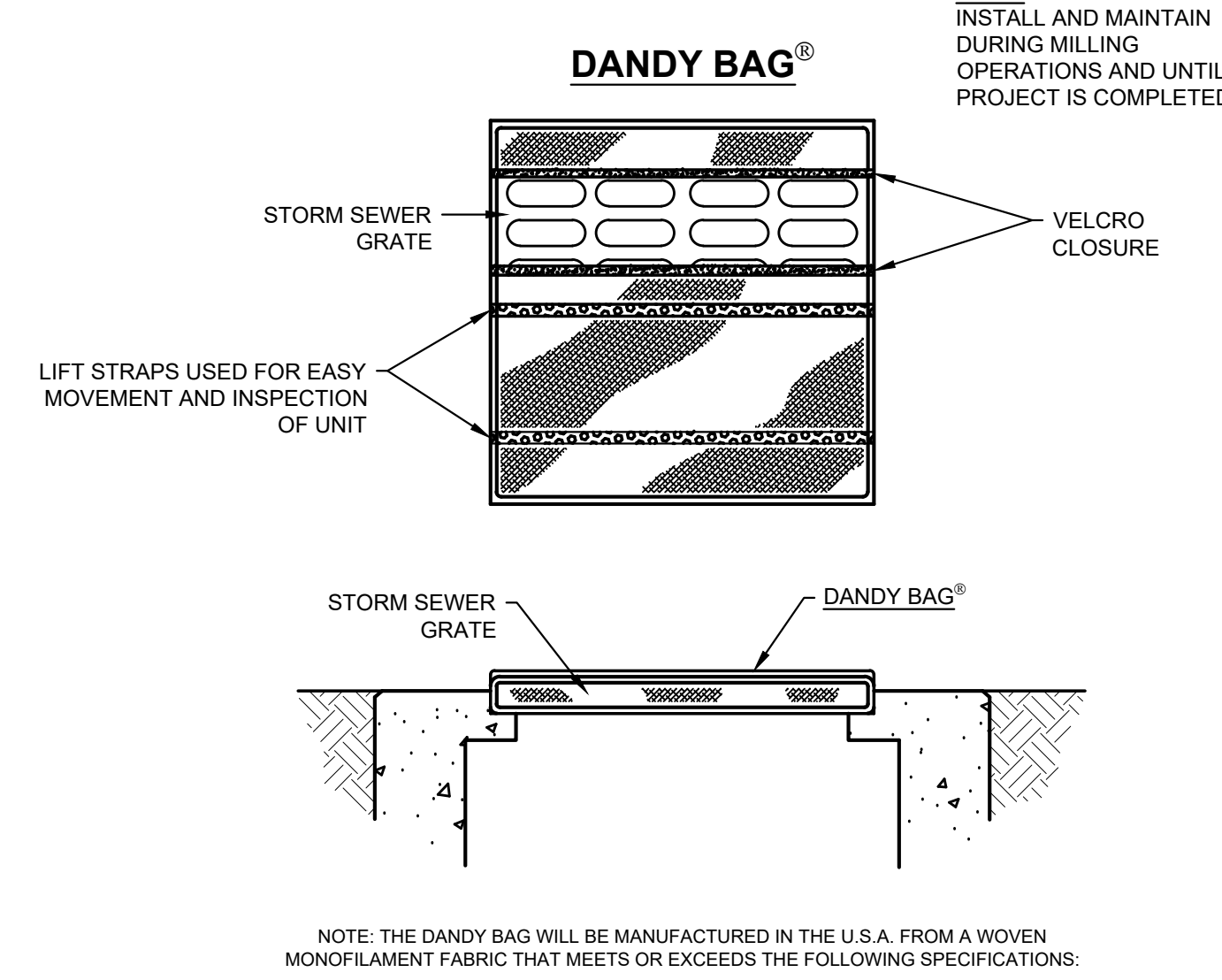


- STONE SIZE - # 2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
- THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
- WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

GEOTEXTILE SPECIFICATIONS FOR CONSTRUCTION ENTRANCES	
MINIMUM TENSILE STRENGTH	200 LBS.
MINIMUM PUNCTURE STRENGTH	80 PSI
MINIMUM TEAR STRENGTH	50 LBS
MINIMUM BURST STRENGTH	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS < 0.6MM
PERMITTIVITY	1x10 <sup>-3</sup> CM/SEC

- TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
- REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

**INLET PROTECTION (IP)**



**HI-FLOW DANDY BAG® (SAFETY ORANGE)**

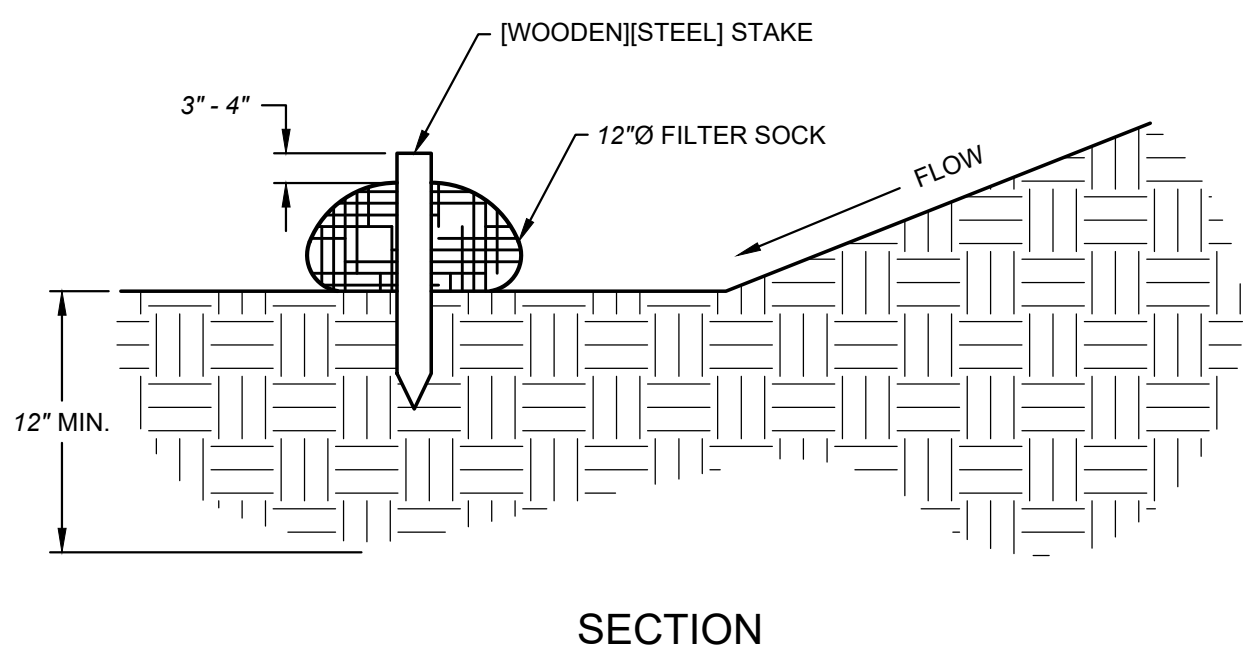
MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	kN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPa (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	kN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTANCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	Mm (US STD SIEVE)	0.425 (4)
FLOW RATE	ASTM D 4491	1/MIN/M <sup>2</sup> (GAL/MIN/FT <sup>2</sup> )	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC <sup>-1</sup>	2.1000

**\*NOTE:** ALL DANDY BAGS® CAN BE ORDERED WITH OUR OPTIONAL OIL ABSORBENT PILLOWS

**FILTER SOCK (FS)**

**DESCRIPTION**

FILTER SOCKS ARE SEDIMENT-TRAPPING DEVICES USING COMPOST INSERTED INTO A FLEXIBLE, PERMEABLE TUBE WITH A PNEUMATIC BLOWER DEVICE OR EQUIVALENT. FILTER SOCKS TRAP SEDIMENT BY FILTERING WATER PASSING THROUGH THE BERM AND ALLOWING WATER TO POND, CREATING A SETTLING OF SOLIDS.



- SPECIFICATIONS FOR FILTER SOCK**
- MATERIALS - COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2".
  - FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.
- INSTALLATION:**
- FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MID-SLOPE.
  - FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
  - FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.
- MAINTENANCE:**
- ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITIONAL AT ALL TIMES.
  - REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
  - WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
  - REMOVAL - FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.

**SWPPP DETAILS**

Phase I Early Sitework Package for:

**Galion Big Four Depot Renovation**  
 127 N. Washington Street  
 Galion, Ohio 44833

**M&W**  
 mull & weithman architects, inc.  
 4525 indianola avenue, columbus, ohio 43214  
 614-267-6900 614-267-6978 fax

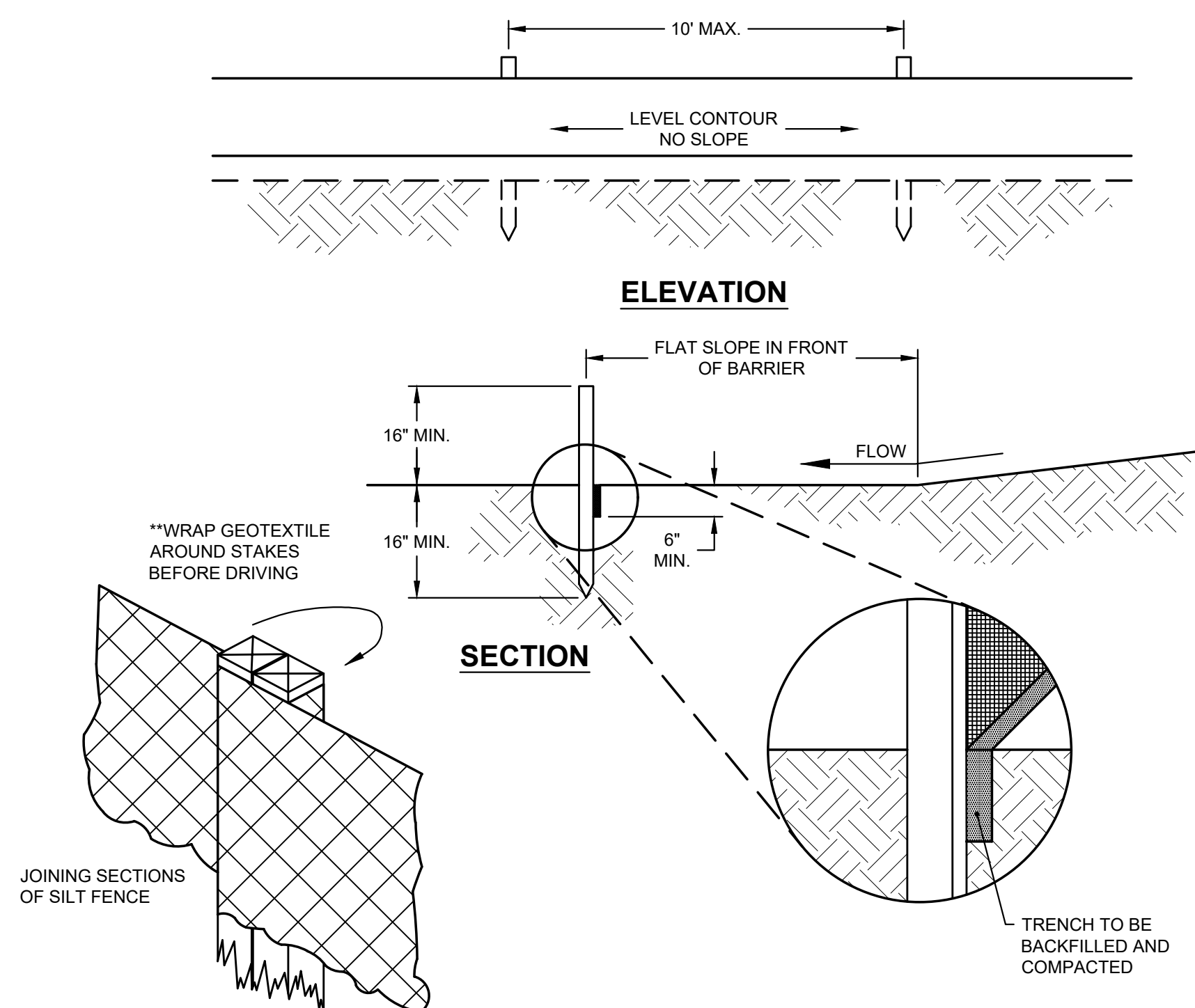
Issued for Bidding  
 3 november 2023  
 commission no. 2.213

## SILT FENCE SF

### DESCRIPTION

SILT FENCE IS A SEDIMENT-TRAPPING PRACTICE UTILIZING A GEOTEXTILE FENCE, TOPOGRAPHY AND SOMETIMES VEGETATION TO CAUSE SEDIMENT DEPOSITION. SILT FENCE REDUCES RUNOFF'S ABILITY TO TRANSPORT SEDIMENT BY PONDING RUNOFF AND DISSIPATING SMALL RILLS OR CONCENTRATED FLOW INTO UNIFORM SHEET FLOW. SILT FENCE IS USED TO PREVENT SEDIMENT-LADEN SHEET RUNOFF FROM ENTERING INTO DOWNSTREAM CREEKS AND SEWER SYSTEMS.

### SPECIFICATIONS FOR SILT FENCE

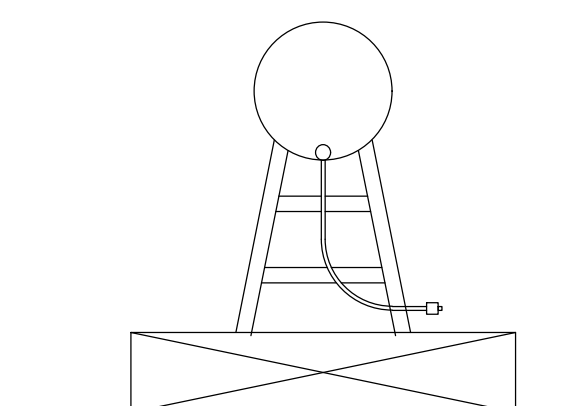


- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- ENDS OF THE SILT FENCE SHOULD BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATE UNIFORM TRENCH DEPTH.
- THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
- SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO GROUND, (SEE DETAIL).
- MAINTENANCE - SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.
  - SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE SILT FENCE.
  - SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
  - THE LOCATION OF THE EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

### CRITERIA FOR SILT FENCE MATERIALS:

- FENCE POST - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POST WILL BE 2-BY-2-IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS, AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
- SILT FENCE FABRIC - SEE CHART BELOW.

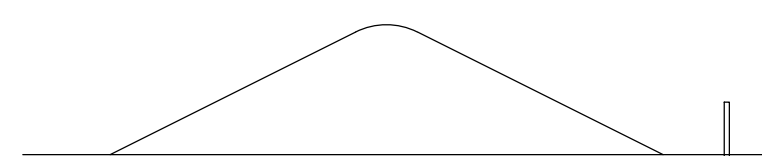
FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50 %	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM D 4533
APPARENT OPENING SIZE	≤ 0.84 mm	ASTM D 4751
MINIMUM PERMITTIVITY	1 x 10 <sup>-2</sup> SEC. <sup>-1</sup>	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM D 4355



### NOTES:

- IMMEDIATELY CONTAIN AND CLEAN UP ANY SPILLS WITH ABSORBENT MATERIALS.
- HAVE EQUIPMENT AVAILABLE IN FUEL STORAGE AREAS AND IN VEHICLES TO CONTAIN AND CLEAN UP ANY SPILLS THAT OCCUR.
- PLACE ABOVE GROUND STORAGE TANKS AT LEAST 50 FEET AWAY FROM STREAMS, PONDS, DITCHES, STORM SEWERS, OR WETLANDS.
- PROVIDE SECONDARY CONTAINMENT AROUND ABOVE GROUND TANKS. SECONDARY CONTAINMENT MUST BE ABLE TO CONTAIN 110% OF THE VOLUME OF THE FUEL STORAGE TANK AND SHOULD BE IMPERMEABLE TO THE MATERIALS BEING STORED. METHODS INCLUDE BERMS, DIKES, LINERS, AND DOUBLE WALLED TANKS.
- STORE AND MAINTAIN APPROPRIATE SPILL CLEANUP MATERIALS IN A LOCATION KNOWN TO ALL EMPLOYEES. NEAR THE FUELING OPERATION AND TRAIN EMPLOYEES ON PROPER SPILL CLEANUP PROCEDURES.
- INSTRUCT EMPLOYEES IN ALL ASPECTS OF PROPER STORAGE AND HANDLING OF FUEL AND OTHER PETROLEUM PRODUCTS. INSTRUCT EMPLOYEES TO BE PRESENT DURING ALL FUEL TRANSFERS, AND IMMEDIATELY CLEAN UP SPILLS AND CONTAMINATED SOIL.
- IMMEDIATELY REPORT SIGNIFICANT SPILLS OF 25 GALLONS OR MORE OR WHEN THERE IS AN IMPACT OR POTENTIAL IMPACT ON STREAMS, PONDS, DITCHES, STORM SEWERS, OR WETLANDS.
- INSPECT FUELING AREAS AND STORAGE TANKS REGULARLY FOR DAMAGES OR LEAKS.
- FUEL STORAGE AREAS MUST BE KEPT SECURE WHEN NOT IN USE.

### FUEL CONTAINMENT DYKE DETAIL



### MAINTENANCE:

- STOCKPILE HEIGHT MUST NOT EXCEED 20 FEET.
- STOCK PILE SLOPES MUST BE 2:1 OR FLATTER.
- SILT FENCE SHALL BE INSTALLED AT THE DOWNSLOPE SIDE OF THE STOCKPILE.
- STOCKPILES SHALL BE TEMPORARILY STABILIZED WITH SEED AND MULCH.
- TOPSOIL STOCKPILE LOCATIONS SHALL BE PROVIDED WHERE AND WHEN DIRECTED BY THE CMT.

### TYPICAL STOCKPILE SECTION

### MAINTENANCE/INSPECTION PROCEDURES

#### EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED THROUGHOUT CONSTRUCTION TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UP-SLOPE AREAS THEY CONTROL ARE PERMANENTLY STABILIZED.

#### INSPECTIONS (MINIMUM REQUIREMENTS)

- ALL CONTROLS ARE TO BE INSPECTED ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24 HOUR PERIOD. THE INSPECTION PERIOD MAY BE REDUCED TO AT LEAST ONCE EVERY MONTH IF THE ENTIRE SITE IS TEMPORARILY STABILIZED OR RUNOFF IS UNLIKELY. ONCE A DEFINABLE AREA HAS BEEN FINALLY STABILIZED NO FURTHER INSPECTION REQUIREMENTS APPLY TO THAT PORTION OF THE SITE.
- A CHECKLIST MUST BE COMPLETED AND SIGNED BY A QUALIFIED INSPECTION PERSONNEL AND INCLUDE THE FOLLOWING:
  - INSPECTION DATE
  - NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION
  - WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION OR COMMENCEMENT OF CONSTRUCTION ACTIVITY (INCLUDE ANY STORM ACTIVITY - DURATION, INTENSITY, DISCHARGES)
  - LOCATION OF ANY SEDIMENT OR OTHER POLLUTANT DISCHARGES FROM THE SITE
  - LOCATION OF BMPS THAT NEED TO BE INSTALLED AND/OR MAINTAINED
  - LOCATION OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE
  - CHECK FOR ANY EVIDENCE OF POLLUTANTS FROM STORED MATERIALS ENTERING THE DRAINAGE SYSTEM
  - CORRECTIVE ACTION (INSTALLATION, REPAIRS, MODIFICATIONS TO SWPPP PLAN AND IMPLEMENTATION DATES)
  - A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR. THE SITE SUPERINTENDENT WILL SELECT INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
  - COPIES OF THE REPORT ARE TO BE SENT TO THE OWNER, CITY ENGINEER & LOCAL SOIL & WATER CONSERVATION DISTRICT

#### REPAIR SCHEDULE OF SWPPP CONTROLS

A CONTROL PRACTICE, EXCEPT A SEDIMENT SETTLING POND, THAT IS IN NEED OF REPAIR OR MAINTENANCE MUST BE REPAIRED WITH 3 DAYS OF THE INSPECTION. IF APPLICABLE, SEDIMENT SETTLING PONDS MUST BE REPAIRED OR MAINTAINED WITHIN 10 DAYS OF THE INSPECTION. IF THE SPECIFIED CONTROL PRACTICE IS DEEMED INADEQUATE OR WAS NOT YET INSTALLED A NEW CONTROL PRACTICE MUST BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.

### MAINTENANCE REQUIREMENTS DURING CONSTRUCTION (WHERE APPLICABLE)

- BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE
- SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. REPAIRS ARE TO BE MADE PROMPTLY.
- IF APPLICABLE, THE SEDIMENT BASIN WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 40 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.
- IF APPLICABLE, DIVERSION DIKES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
- TEMPORARY AND PERMANENT SEEDING AND PLANTINGS WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

#### DEWATERING REQUIREMENTS DURING CONSTRUCTION

THERE SHALL BE NO SEDIMENT-LADEN DISCHARGES TO SURFACE WATERS RESULTING FROM DEWATERING ACTIVITIES. SHOULD DEWATERING BE REQUIRED, E.G., FROM TRENCHES, ETC., DURING CONSTRUCTION, ALL WATER SHALL BE PUMPED TO THE TEMPORARY SEDIMENT BASINS, IF POSSIBLE, BEFORE BEING RELEASED TO DOWNSTREAM CHANNELS, STORM SEWERS, ETC. IF A TEMPORARY SEDIMENT BASIN IS NOT SHOWN ON THE PLAN, OR NOT ACHIEVABLE FOR DEWATERING, THE WATER SHALL BE PUMPED INTO A SEDIMENT TRAP OR THROUGH SEDIMENT BAGS ONTO A RELATIVELY FLAT SURFACE AWAY FROM INLET BASINS, STREAMS, ETC.

#### POST-CONSTRUCTION INSPECTION PROCEDURE

- (NA) THE SITE SHALL BE MAINTAINED PER THE POST-CONSTRUCTION MAINTENANCE PLAN FOLLOWING THE SUBMITTAL OF THE N.O.I.
- THE PROPERTY OWNER OR THE OWNER'S AUTHORIZED REPRESENTATIVE(S) IS RESPONSIBLE FOR THE INSPECTION OF THE PERMANENT SWPPP CONTROLS, DISCHARGES FROM THE SITE AND ANY SEDIMENT ACCUMULATIONS.
- MAINTENANCE COSTS, IF INSPECTED BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE(S) WILL BE PAID BY THE OWNER.
- REGULAR INSPECTIONS, ESPECIALLY FOLLOWING MAJOR STORM EVENTS, WILL REQUIRE AN INSPECTION REPORT THAT SHALL BE KEPT BY THE OWNER FOR A PERIOD OF THREE YEARS. A COPY OF THE REPORT IS TO BE SUBMITTED TO THE MORROW COUNTY ENGINEERING DEPARTMENT (IF REQUIRED)

#### POST CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

POST-CONSTRUCTION STORM WATER MANAGEMENT PRACTICES TREAT RUNOFF FROM A DEVELOPMENT SITE AFTER CONSTRUCTION IS COMPLETE.



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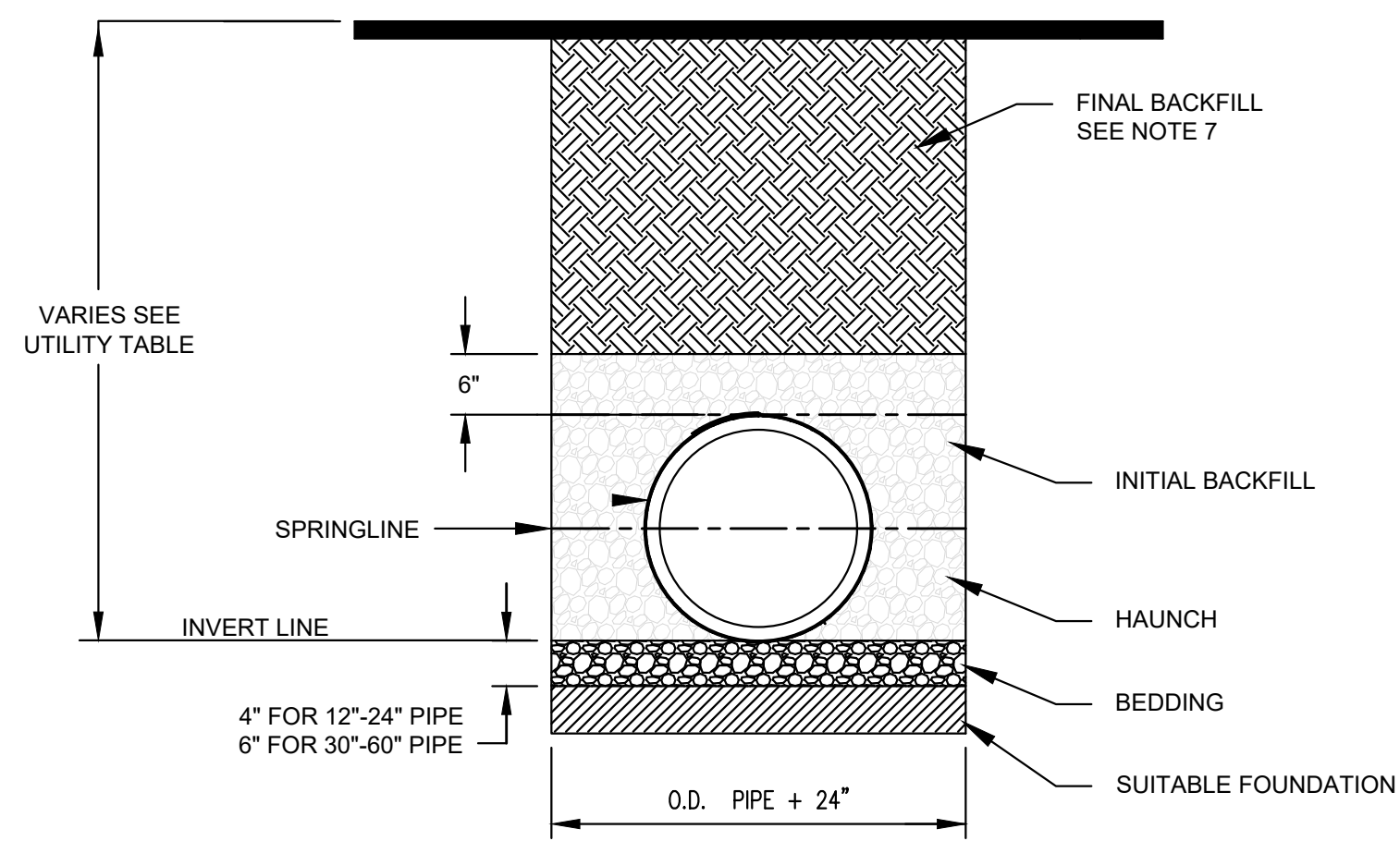
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614-207-6000 614-267-6978 fax

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3 november 2023  
commission no. 2213

SWPPP DETAILS

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**NOTES:**

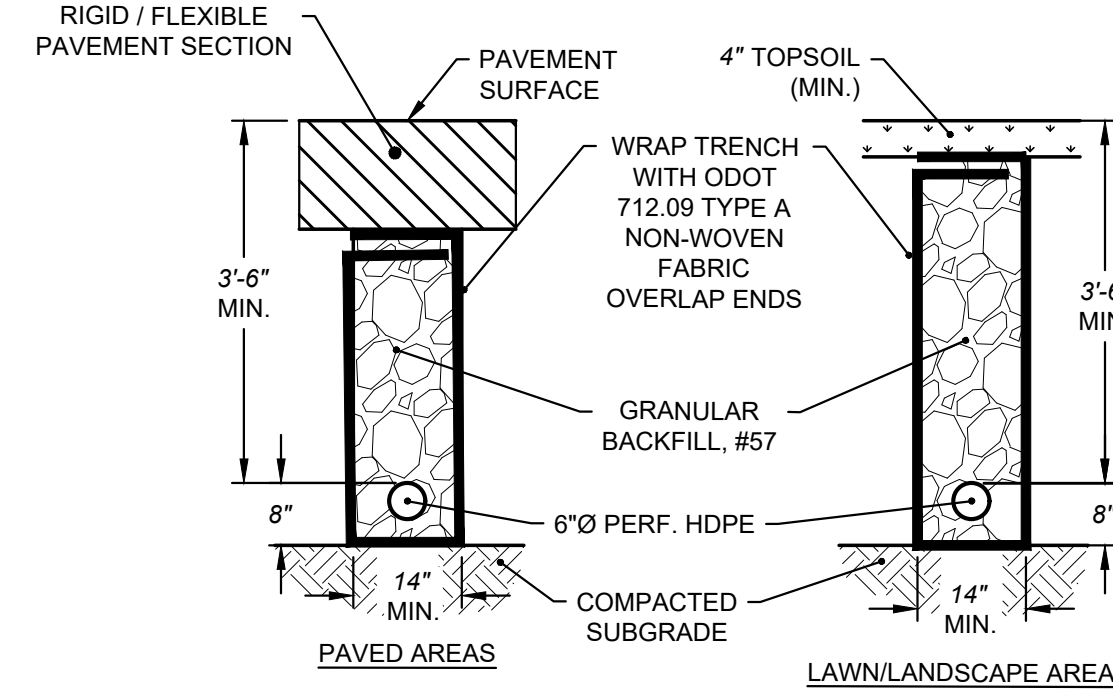
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED. AGGREGATE CONTAINING SLAG, ACBFS, RPCC AND FOUNDRY SAND ARE PROHIBITED.
3. **FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL, AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. **BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I COMPACTED AGGREGATE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm), 6" (150mm) FOR 30"-60" (750mm-1500mm).
5. **INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6' ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. **MINIMUM COVER:** MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
7. **FINAL BACKFILL**

BACKFILL UNDER PAVEMENT SHALL BE PREMIUM BACKFILL SHALL BE ODOT 304 LIMESTONE. THE BACKFILL SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

BACKFILL IN LAWN AREAS - SUITABLE MATERIAL MAY BE CLASS I, II, III, OR EXCAVATED MATERIAL - MAX. 8" LIFTS, 93% COMPACTION. NO ROCKS OVER 1-1/2" Ø ARE ACCEPTABLE IN UPPER 8" OF BACKFILL. A 4" (MIN.) LAYER OF SCREENED TOPSOIL IS REQUIRED IN LAWN AREAS.

**HDPE STORM SEWER SEWER TRENCH DETAIL (DOWNSPOUT LATERALS)**

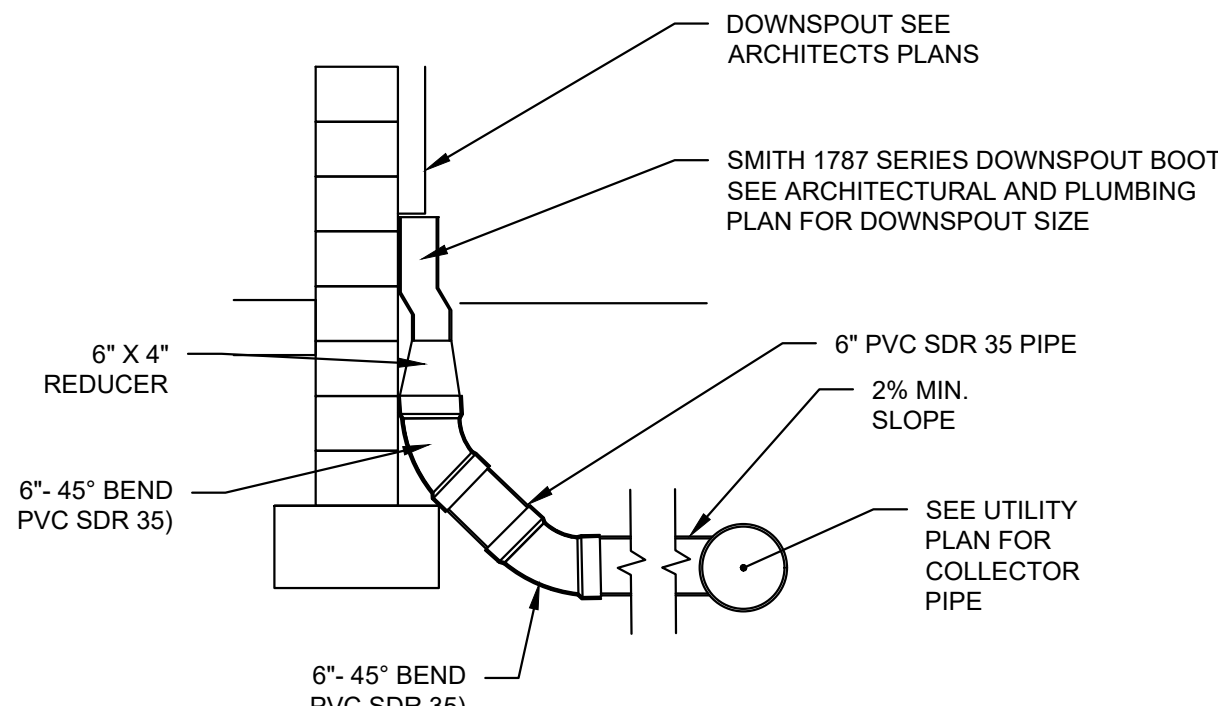
SCALE: NONE



**UNDERDRAIN DETAIL**  
SCALE: NONE

**NOTES:**

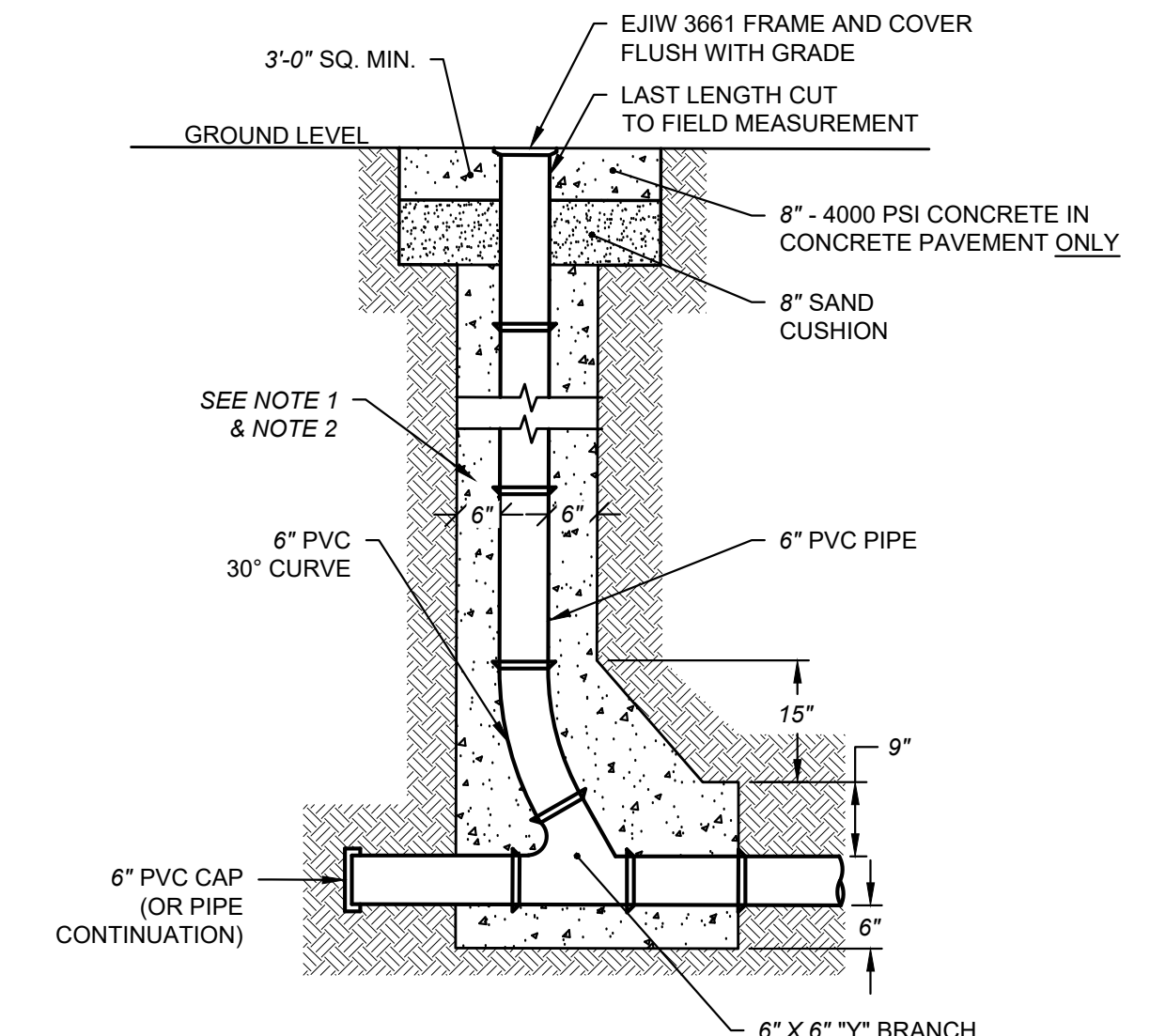
1. SLOPE ALL UNDERDRAINS AT 0.5% (MIN.) SLOPE TO NEAREST FEASIBLE CATCH BASIN, INLET BASIN, OR STORM MANHOLE.
2. UNDERDRAIN TRENCH TO BE SURROUNDED BY WELL COMPACTED SOILS.



**DOWNSPOUT COLLECTOR**  
SCALE: NONE

**NOTES:**

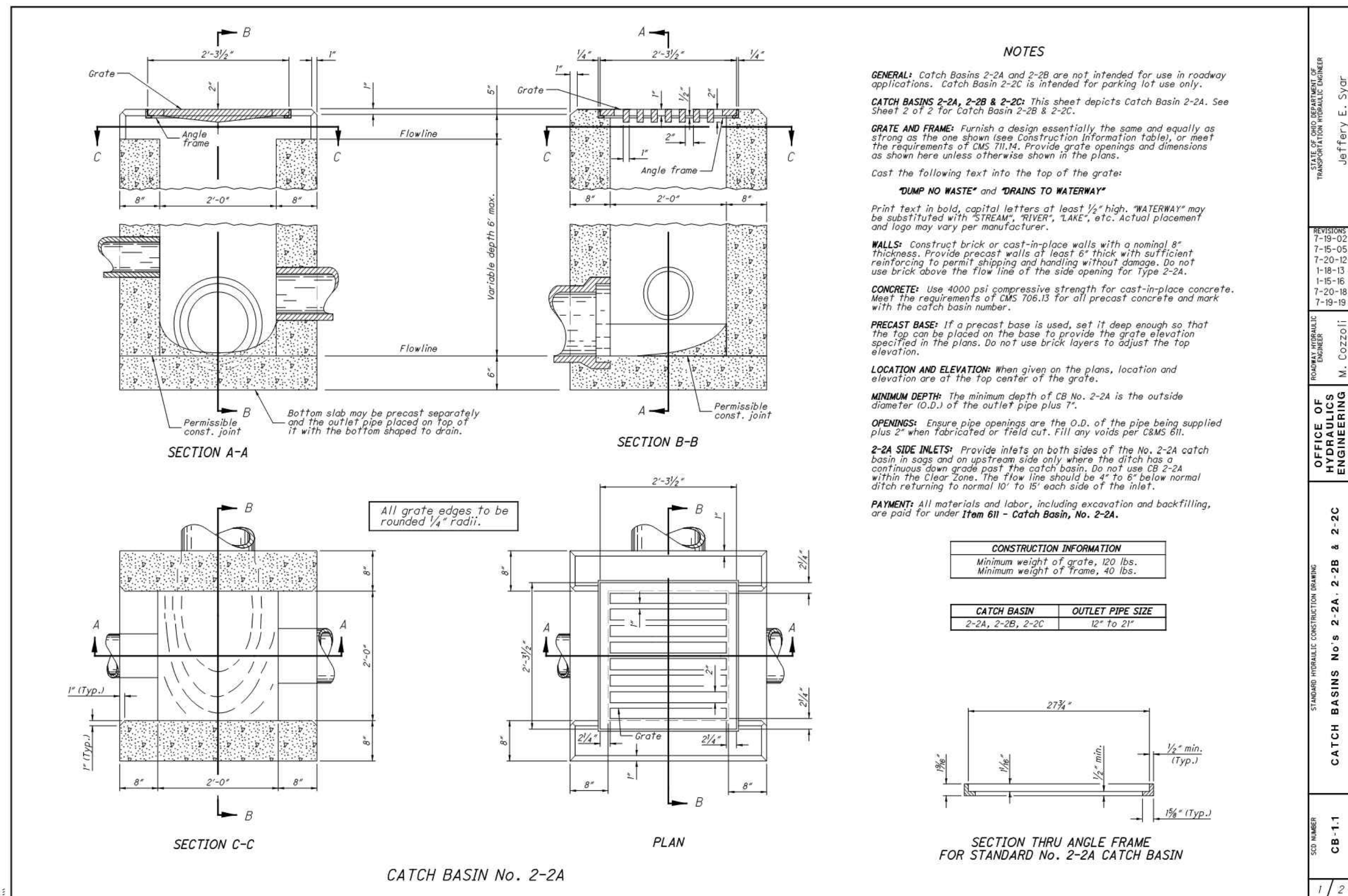
1. PIPE SHALL BE PVC SDR 35.
2. A WATERTIGHT CONNECTION SHALL BE MAINTAINED WITH ANY TRANSITION.
3. THE DOWNSPOUT COLLECTOR DRAIN SHALL BE INSTALLED BEFORE THE DOWNSPOUTS ARE INSTALLED ON THE BUILDING. THE SITESWORK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK TO AND INCLUDING THE ADS CONNECTOR. THE BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION AT THE POINT OF THE ADS CONNECTOR.



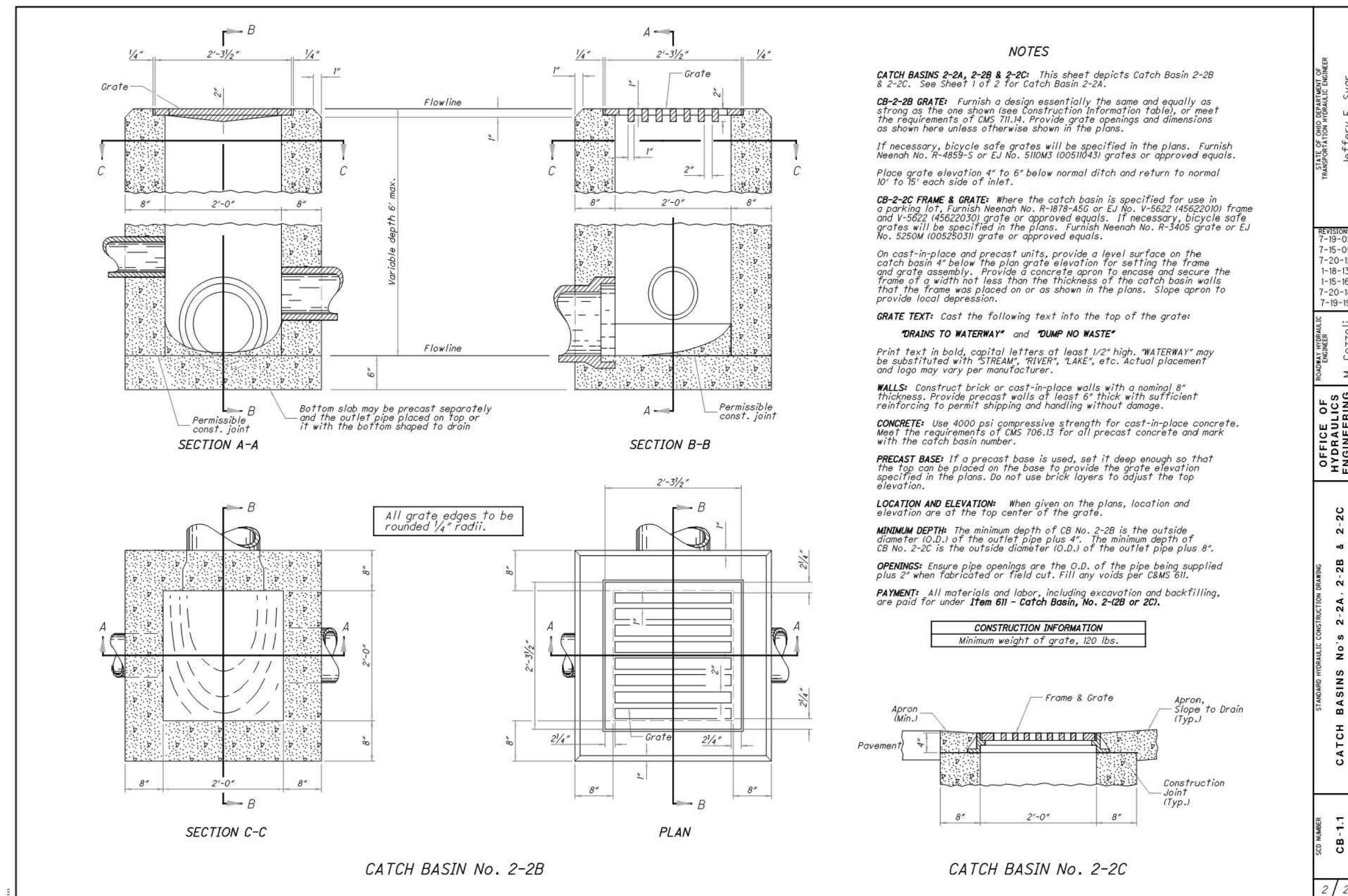
**CLEANOUT DETAIL**  
SCALE: NONE

**NOTES:**

1. CONCRETE (4000 PSI) ENCASEMENT FOR CLEANOUT IS OPTIONAL WITHIN LANDSCAPE. CONSULT ENGINEER BEFORE PROCEEDING.
2. CONCRETE (4000 PSI) ENCASEMENT FOR CLEANOUT IS REQUIRED WHEN SUBJECT TO TRAFFIC.
3. 8" CLEANOUT SHALL BE USED FOR 8" SEWER AND LARGER.
4. SMALLER SIZE SEWERS AND LAMP HOLES SHALL HAVE SAME SIZE PIPE.
5. CLEANOUT TO HAVE A WATERTIGHT CAP ON RISER.
6. RISER IS TO BE TERMINATED JUST BELOW GRADE. USE C.I. LAMPHOLE FRAME AND COVER WHEN SUBJECT TO TRAFFIC.
7. INSTALL CLEANOUTS ON ALL STORM & SANITARY LINES LEAVING THE BUILDING. LOCATIONS TO BE FIELD DETERMINED.



**ODOT 2-2C CATCH BASIN DETAIL**  
SCALE: NONE



**CONSTRUCTION STANDARD DETAILS**

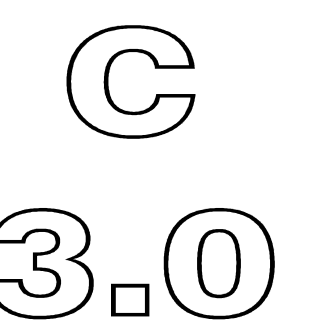


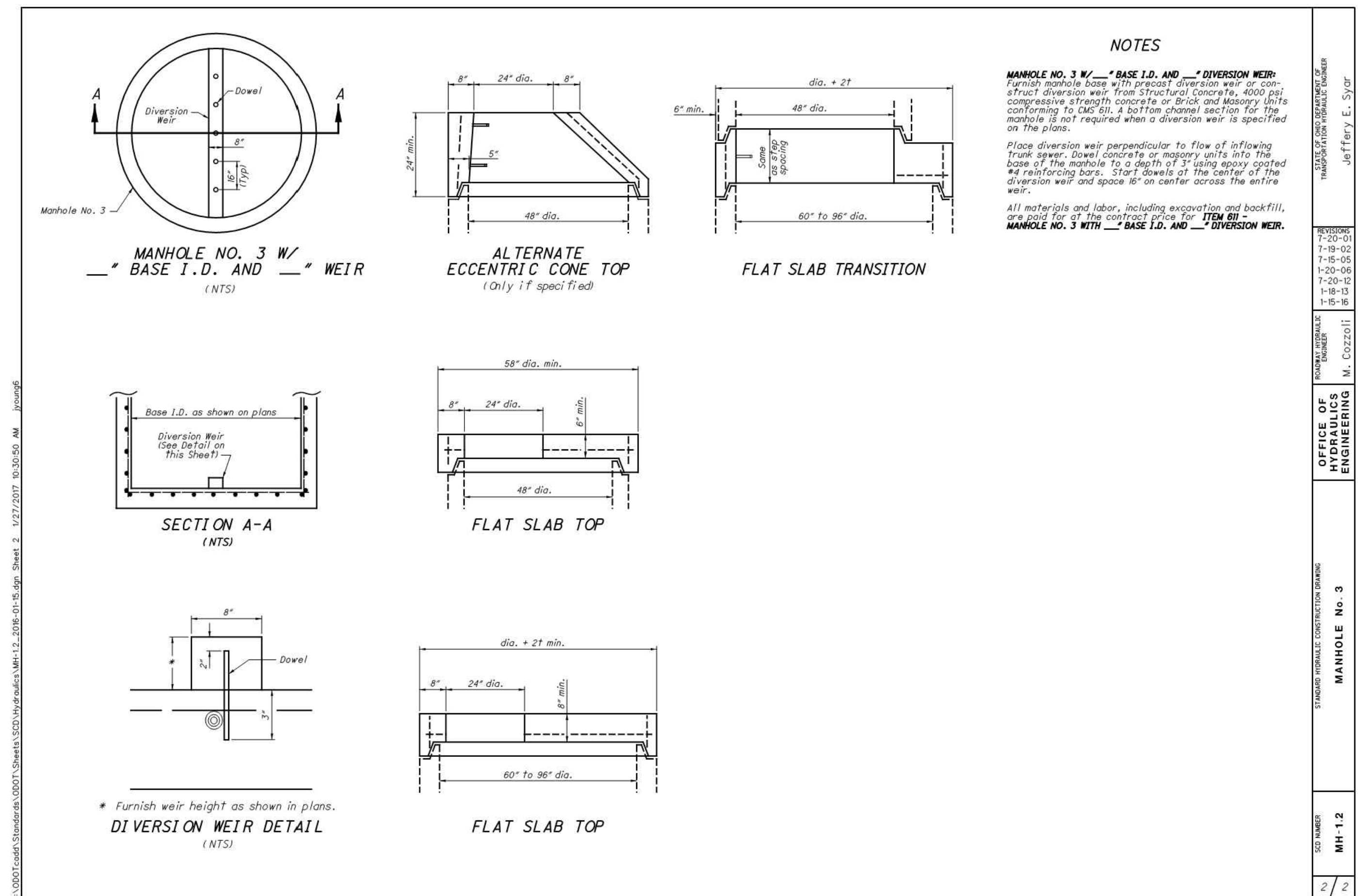
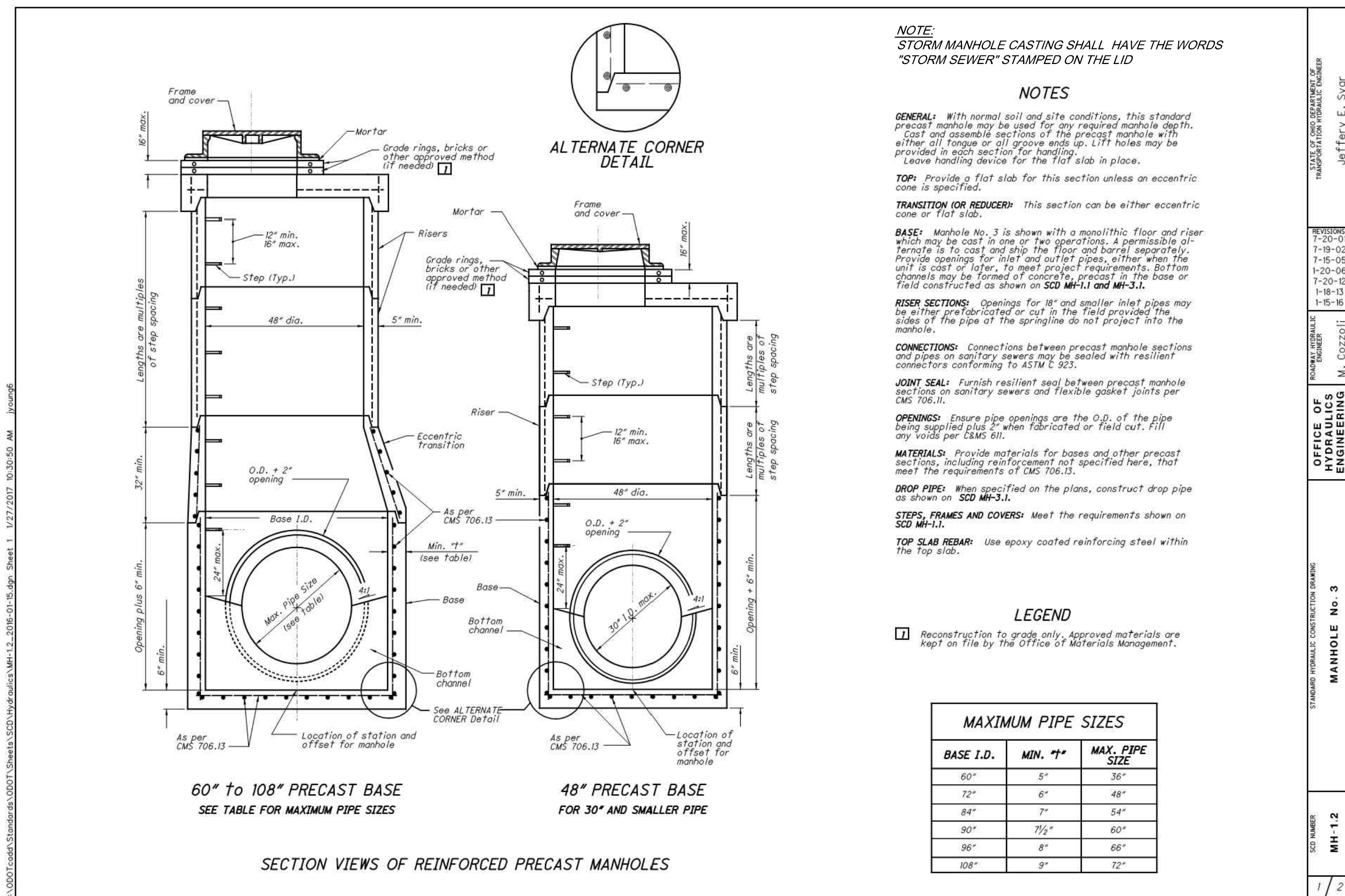
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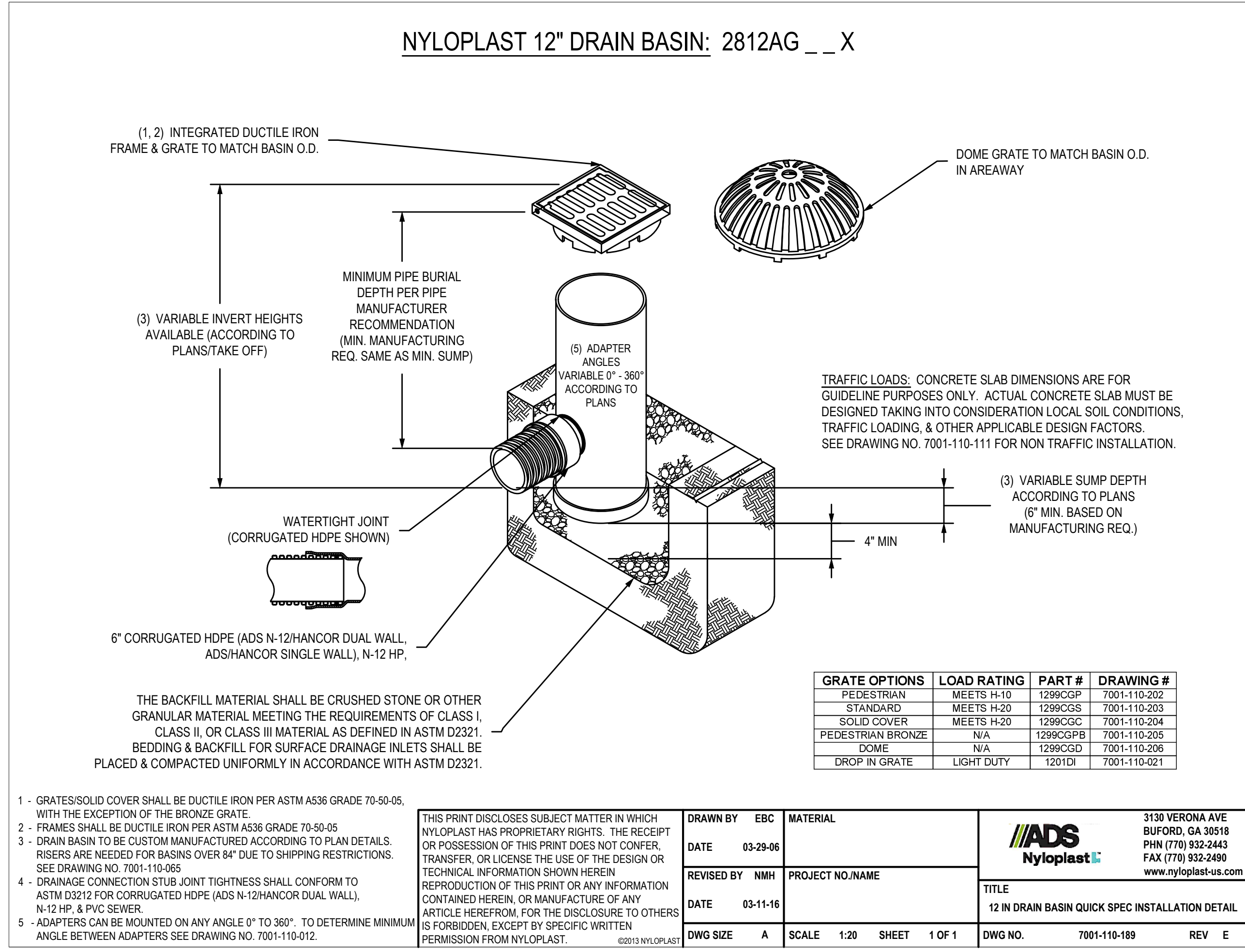
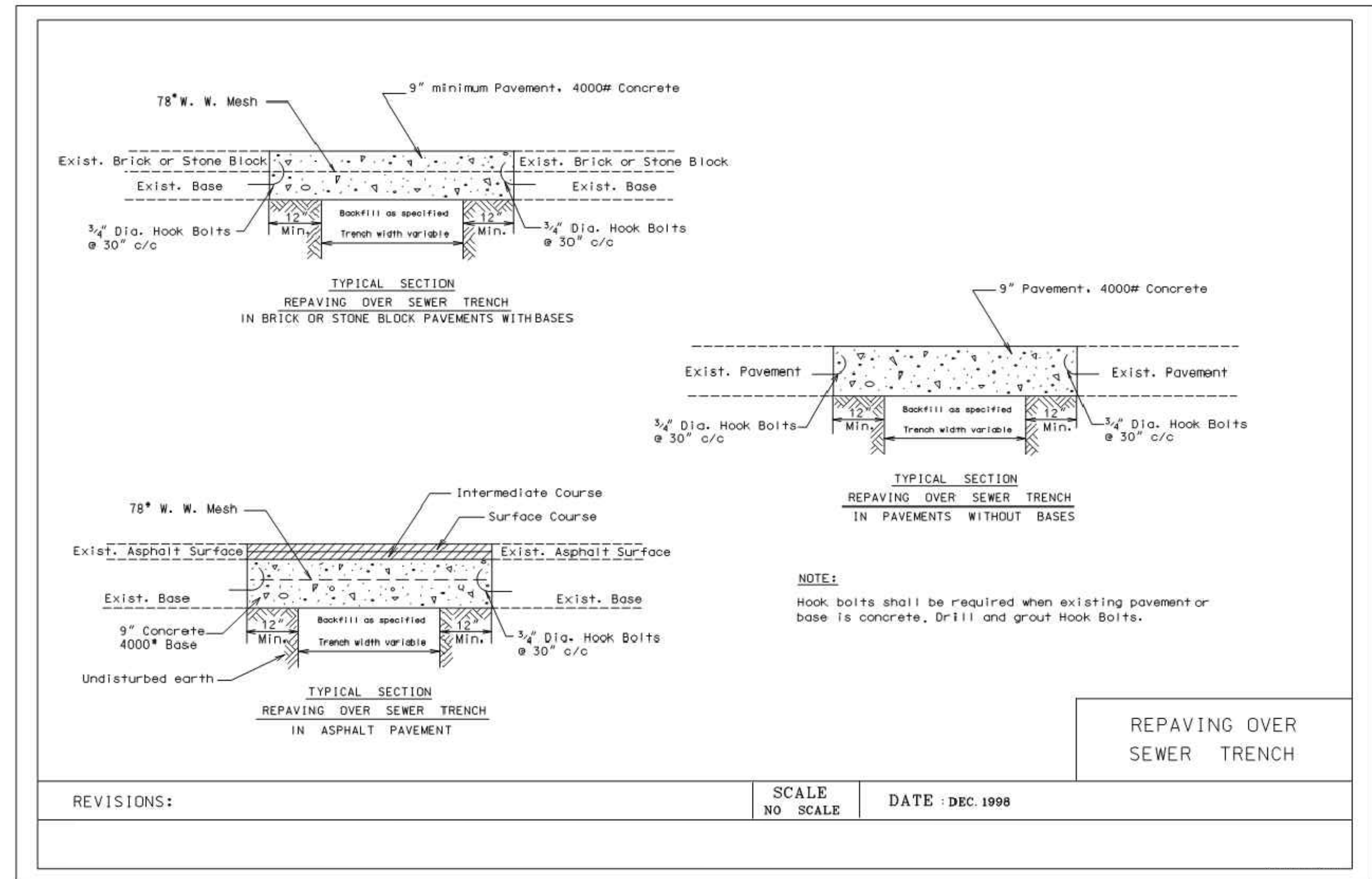
**M&W**  
mull & weithman architects, inc.  
4525 indianola avenue, columbus, ohio 43214  
614-267-6900 614-267-6978 fax

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3 november 2023  
commission no. 2.213





**STORM MANHOLE DETAIL**  
SCALE: NONE

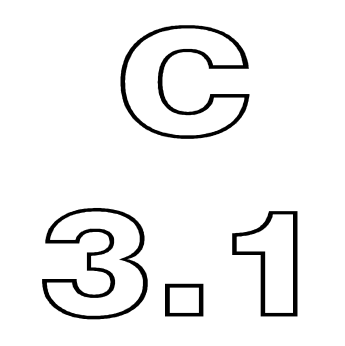


Phase I Early Sitework Package for:  
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Galion, Ohio 44833

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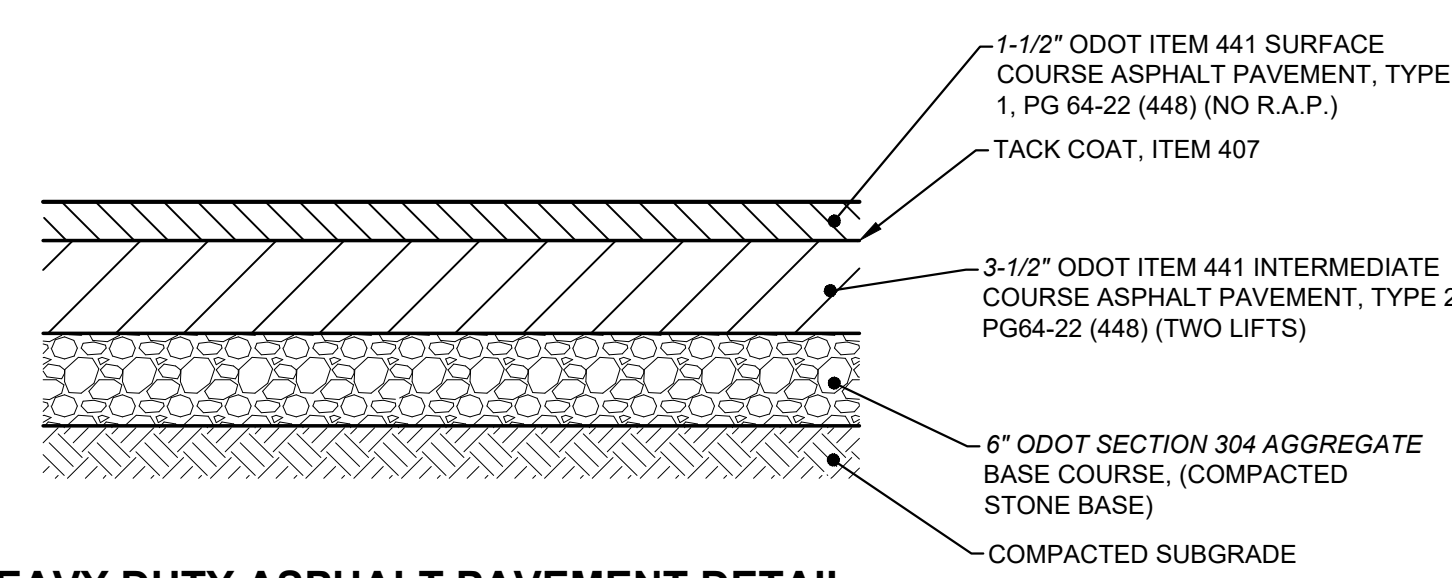
**CONSTRUCTION DETAILS**





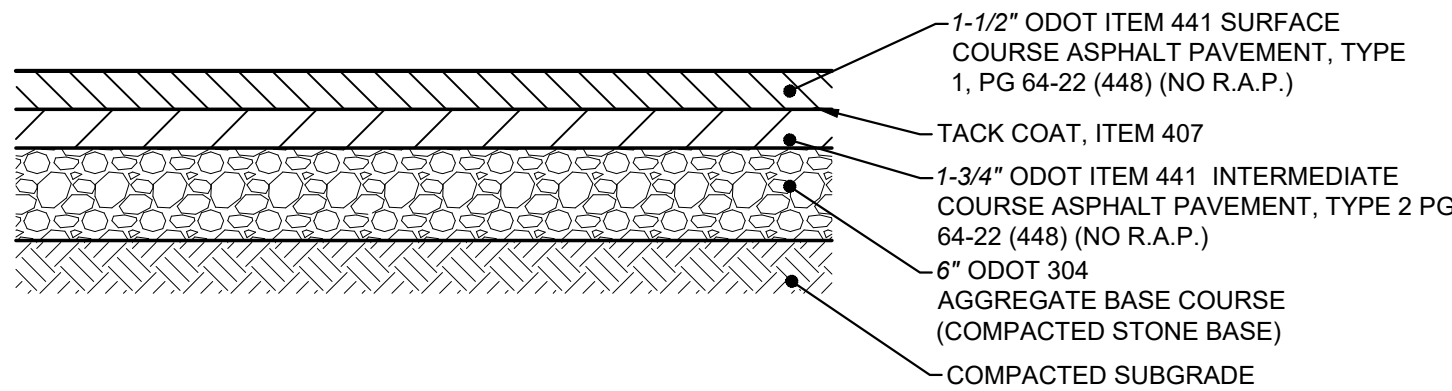


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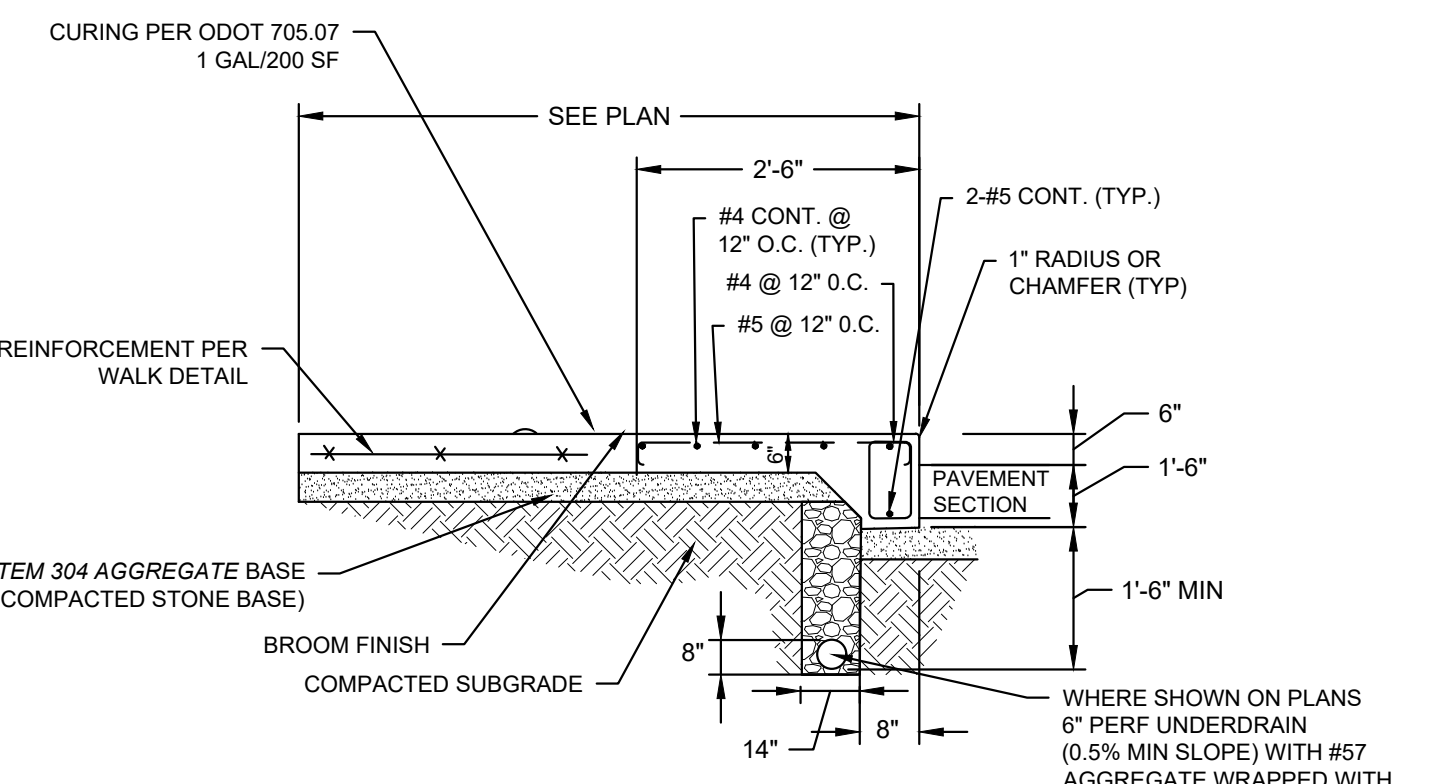
**HEAVY DUTY ASPHALT PAVEMENT DETAIL**  
 (DRIVE AISLES) SCALE: NONE

- NOTES:**
1. ALL THICKNESSES SHOWN ARE COMPACTED IN PLACE.
  2. PRIOR TO PAVING, SUBBASE IS TO BE PROOF ROLLED.
  3. TACK COAT TO BE APPLIED IN ACCORDANCE WITH ODOT SPECIFICATIONS
  4. WHERE APPLICABLE, REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.



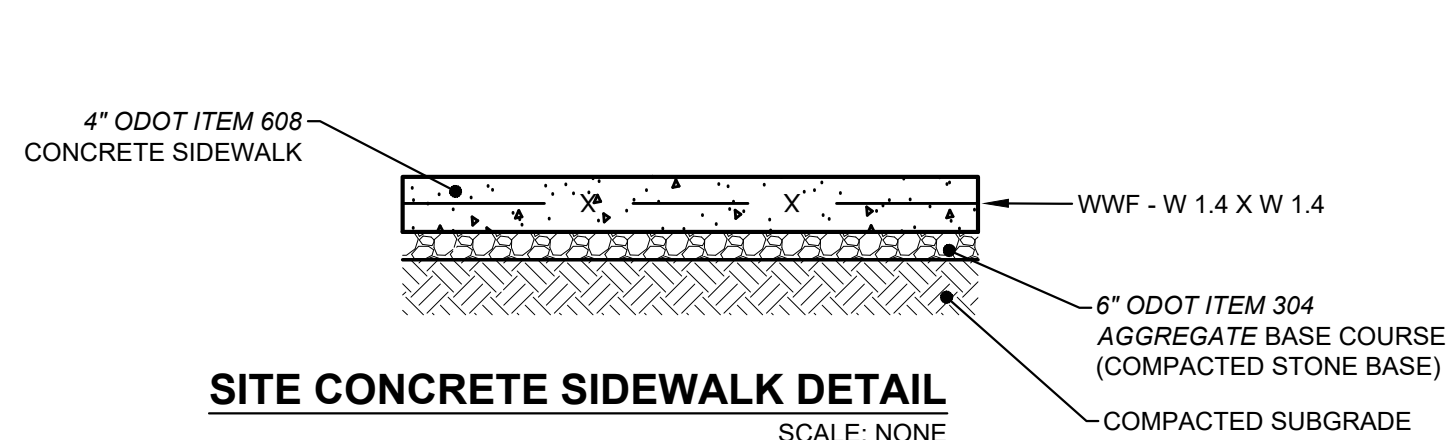
**STANDARD DUTY ASPHALT PAVEMENT DETAIL**  
 (PARKING SPACES) SCALE: NONE

- NOTES:**
1. ALL THICKNESSES SHOWN ARE COMPACTED IN PLACE.
  2. PRIOR TO PAVING, SUBBASE IS TO BE PROOF ROLLED.
  3. TACK COAT TO BE APPLIED IN ACCORDANCE WITH NYSDOT SPECIFICATIONS.
  4. WHERE APPLICABLE, REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.



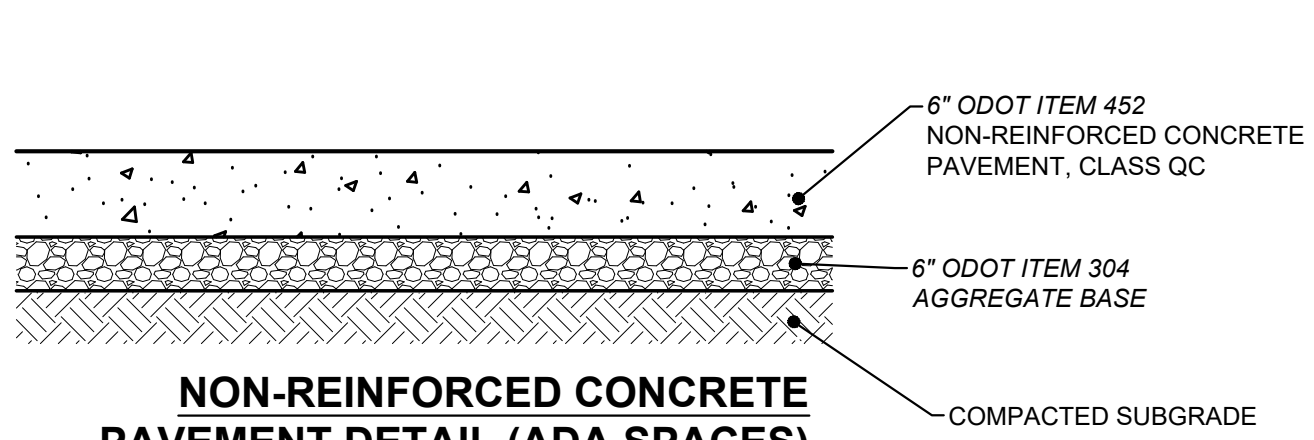
**INTEGRAL CURB/WALK DETAIL**  
 SCALE: NONE

- NOTES:**
1. ALL CONCRETE SHALL BE AIR ENTRAINED 4000 PSI (NO FLY ASH) UNLESS OTHERWISE DIRECTED BY ENGINEER.
  2. USE CHAIRS TO SUPPORT REINFORCEMENT IN WALK.
  3. USE EPOXY COATED REBAR. MAINTAIN 2" COVER OVER REINFORCEMENT.
  4. PROVIDE STANDARD RUBBED FINISH ON EXPOSED VERTICAL FACE.
  5. SLOPE SURFACE TO DRAIN (MIN 1.0% MAX 1.75% CROSS-SLOPE).
  6. 12" PREFORMED JOINT MATERIAL, CONTINUOUS STRIP SHALL BE INSTALLED EVERY 30' AND / OR BETWEEN SIDEWALK AND ANY FIXED STRUCTURE EXTENDING THE FULL DEPTH OF THE SIDEWALK.
  7. SIDEWALK JOINTS SHALL BE DIVIDED INTO EQUALLY SPACED BLOCKS, BUT NOT GREATER THAN 10' O.C. (I.E. 5' INTERVALS FOR 5' WIDE SIDEWALKS). JOINTS SHALL BE HAND TOoled OR SAW CUT TO A DEPTH OF 1/4" OF THE SLAB THICKNESS.
  8. MATERIAL PLACING, FINISHING, AND JOINTING PER DETAILS AND SPECIFICATIONS.
  9. CONCRETE WALK IS TO HAVE MEDIUM BROOM FINISH PERPENDICULAR TO TRAFFIC FLOW, RUB OUT ALL TOOL MARKS.



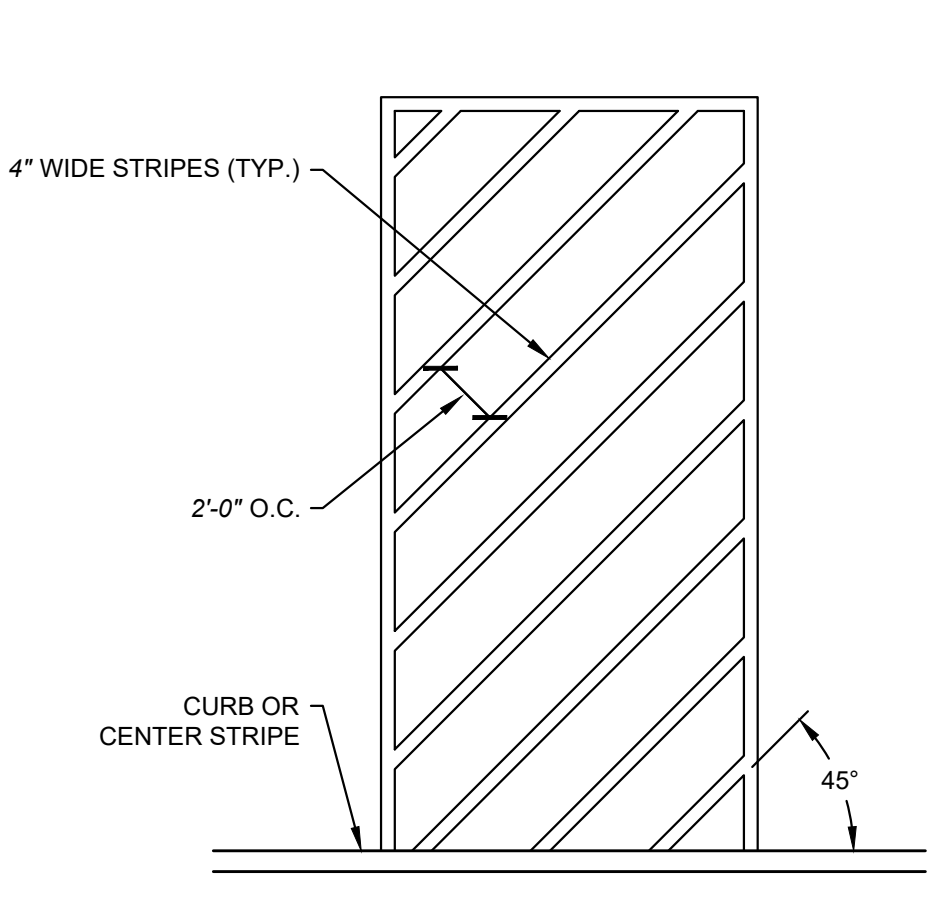
**SITE CONCRETE SIDEWALK DETAIL**  
 SCALE: NONE

- NOTES:**
1. ALL CONCRETE IS TO BE AIR-ENTRAINED 4000 PSI (NO FLY ASH), UNLESS OTHERWISE DIRECTED BY ENGINEER.
  2. SLOPE SURFACE TO DRAIN (MIN 1% MAX 2% CROSS-SLOPE).
  3. 12" PREFORMED JOINT MATERIAL, CONTINUOUS STRIP SHALL BE INSTALLED EVERY 30' AND / OR BETWEEN SIDEWALK AND ANY FIXED STRUCTURE EXTENDING THE FULL DEPTH OF THE SIDEWALK.
  4. SIDEWALK JOINTS SHALL BE DIVIDED INTO EQUALLY SPACED BLOCKS, BUT NOT GREATER THAN 10' O.C. (I.E. 5' INTERVALS FOR 5' WIDE SIDEWALKS). JOINTS SHALL BE HAND TOoled OR SAW CUT TO A DEPTH OF 1/4" OF THE SLAB THICKNESS.
  5. MATERIAL PLACING, FINISHING, AND JOINTING PER DETAILS AND SPECIFICATIONS
  6. CONCRETE WALK IS TO HAVE MEDIUM BROOM FINISH PERPENDICULAR TO TRAFFIC FLOW, RUB OUT ALL TOOL MARKS.



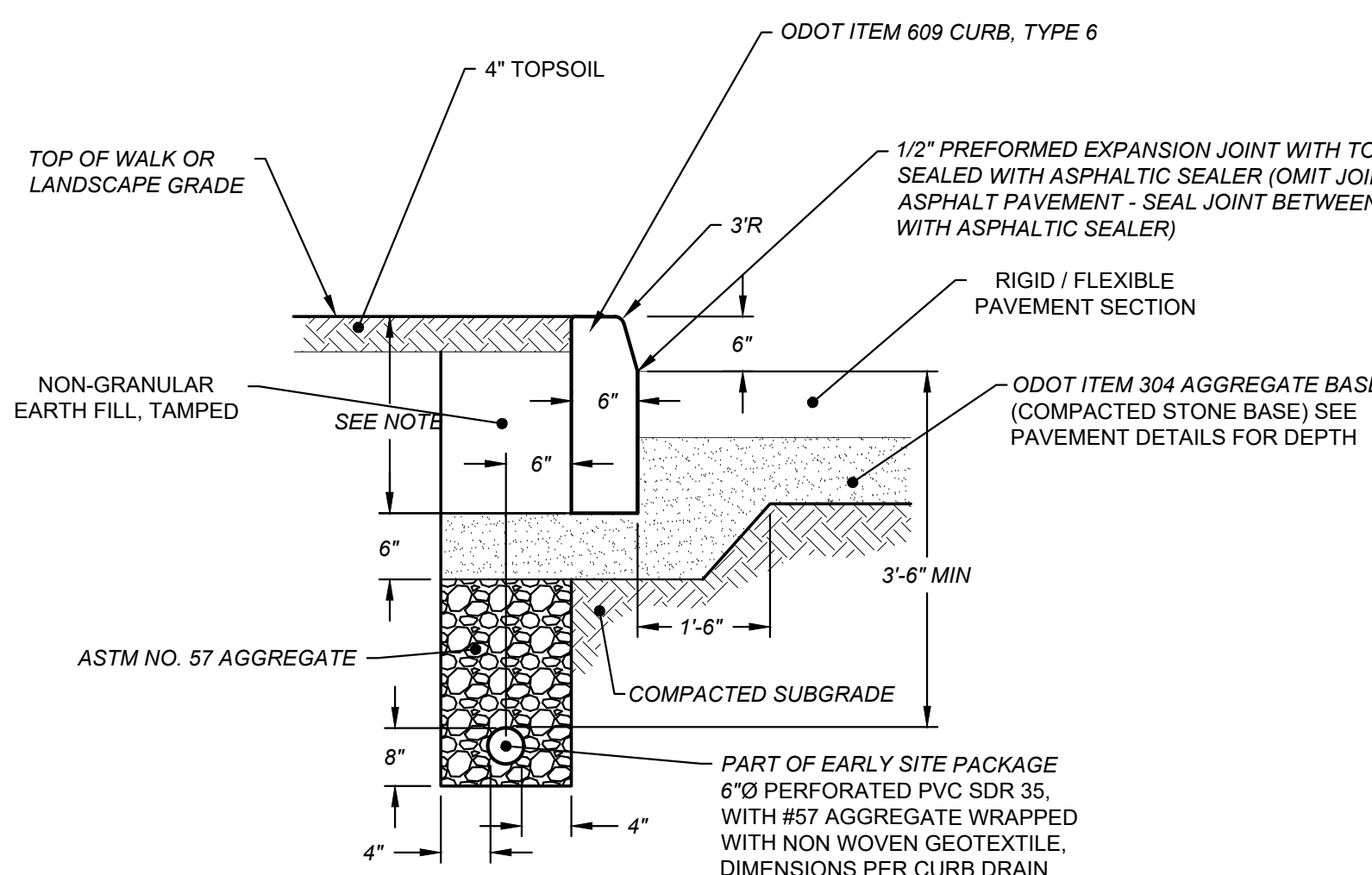
**NON-REINFORCED CONCRETE PAVEMENT DETAIL (ADA SPACES)**  
 SCALE: NONE

- NOTES:**
1. ALL CONCRETE IS TO BE AIR ENTRAINED 4000 PSI (NO FLY ASH), UNLESS OTHERWISE DIRECTED BY ENGINEER.
  2. A SINGLE COMPONENT POLYURETHANE, SELF LEVELING CONCRETE SEALANT (SIKA OR APPROVED EQUAL, SEE JOINT DETAILS) IS TO BE APPLIED TO CONCRETE JOINTS AT INTERFACE WITH BUILDING.
  3. SLOPE SURFACE TO DRAIN (MIN. 1%).
  4. PROOFROLL EXPOSED SUB-GRADE WITH A FULLY LOADED DUMP TRUCK.
  5. COMPACT EXPOSED SUB-GRADE TO A MINIMUM OF 98% OF THE LABORATORY DRY DENSITY OF THE SOIL AS DETERMINED BY A STANDARD PROCTOR TEST (ASTM D 698).
  6. STABILIZE OR UNDERCUT ANY UNSTABLE AREAS ON A T&M BASIS, APPROVED BY THE OWNER IN ADVANCE.
  7. WATER WILL NOT BE ADDED AT JOBSITE. SLUMP MAY BE ADJUSTED WITH HRWR ADMIXTURE. SUBMIT MIX DESIGN TO ENGINEER AND TESTING AGENCY. CONTRACTOR IS TO PAY FOR PROCTOR TEST AND CONCRETE TESTING AGENCY (AIR CONTENT, SLUMP, 7 AND 28 DAY COMPRESSIVE STRENGTH).
  8. APPLY SPRAY APPLIED CURING COMPOUND (ASTM C 309, TYPE 1, CLASS B, DISSIPATING).
  9. INCLUDE FIBERMESH 650 SYNTHETIC FIBER (OR APPROVED EQUAL) TO CONCRETE AT A MINIMUM RATE OF 3.0 LBS PER C.Y.
  10. SURFACE IS TO HAVE A MEDIUM BROOM FINISH PERPENDICULAR TO TRAFFIC FLOW, RUB OUT ALL TOOL MARKS.



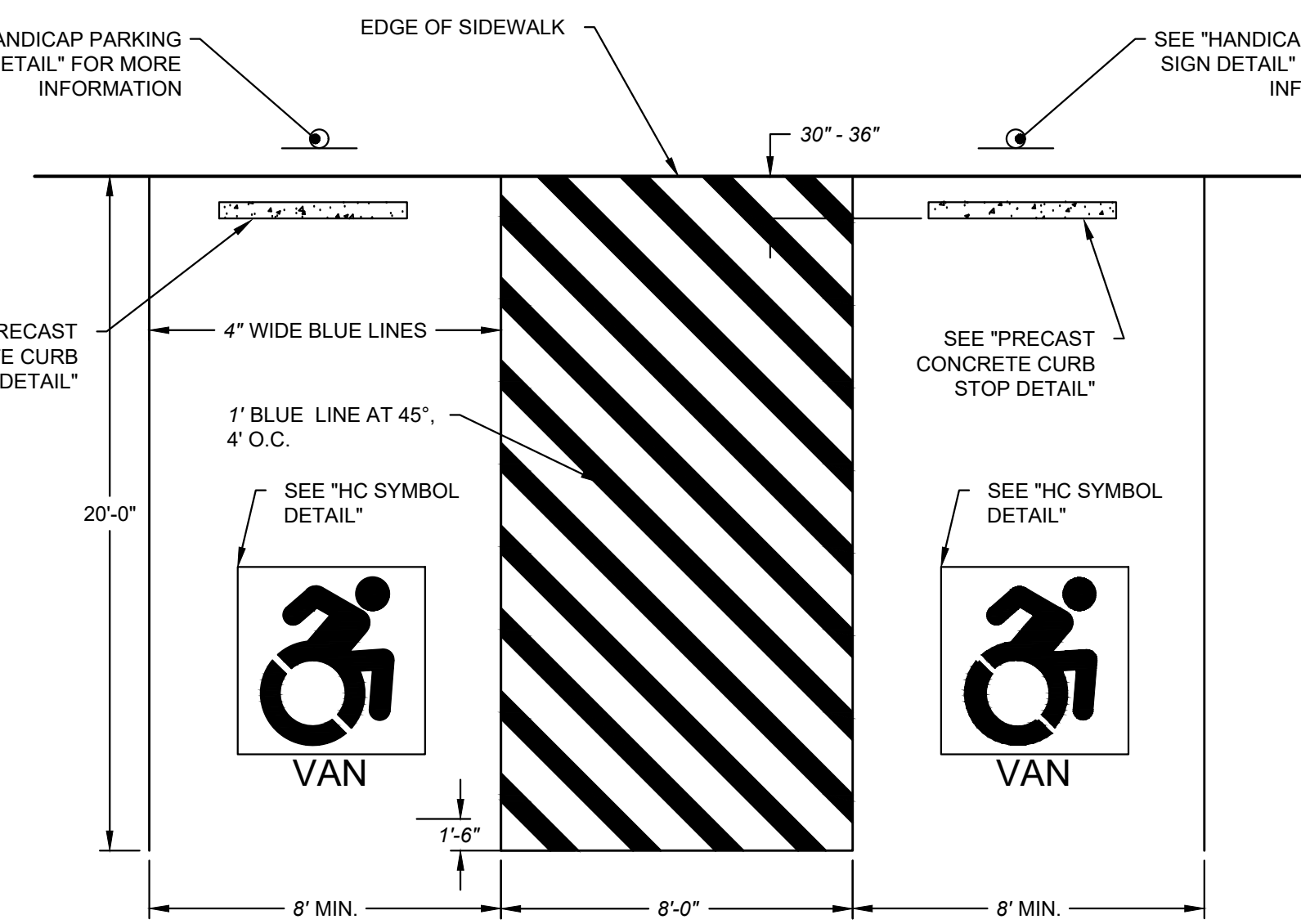
**ISLAND STRIPING DETAIL**  
 SCALE: NONE

- NOTES:**
1. ISLAND STRIPING COLOR: WHITE.
  2. CROSSWALK COLOR: WHITE.
  3. HANDICAP AREAS COLOR: BLUE.



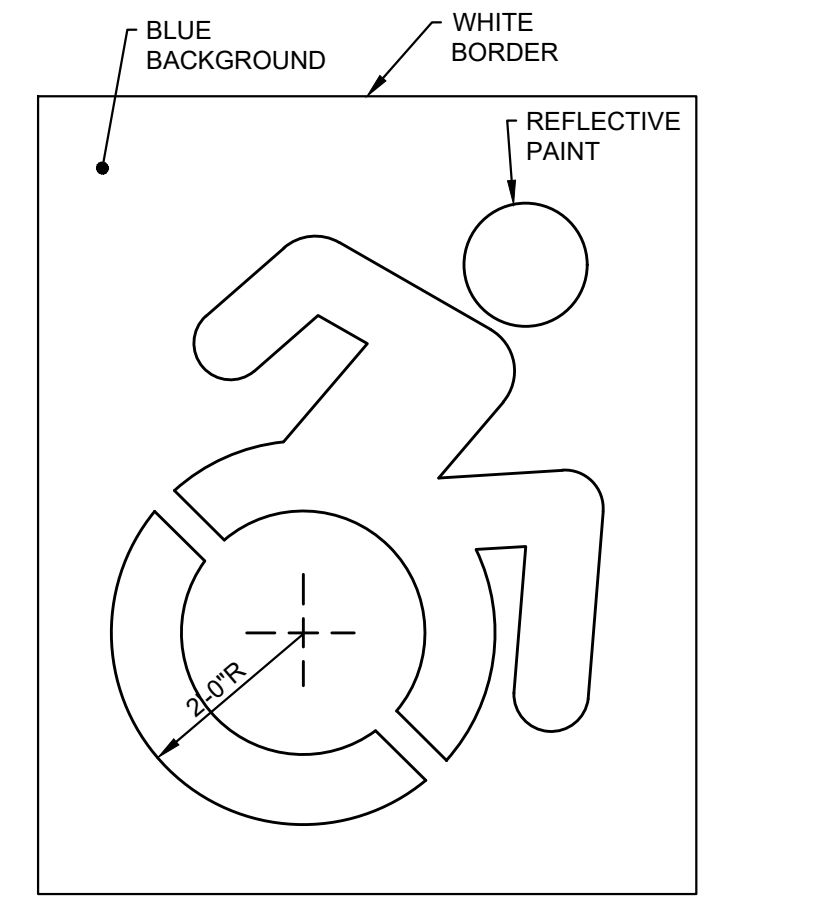
**6" CONCRETE CURB DETAIL**  
 SCALE: NONE

- NOTES:**
1. ALL CONCRETE SHALL BE AIR ENTRAINED 4,000 PSI UNLESS OTHERWISE DIRECTED BY ENGINEER (NO FLY ASH).
  2. PROVIDE HOT APPLIED ASPHALTIC SEALER ACCORDING TO ASTM D 3405 AT ALL SURFACES WHERE ASPHALT PAVEMENT ABUTS CONCRETE CURB. APPLY SEALER IN A NEAT, WORKMANSHIP FASHION.
  3. INSTALL CONTRACTION JOINT @ 10' O.C.
  4. AGGREGATE BASE IS TO EXTEND 14" BEYOND BACK OF CURB.



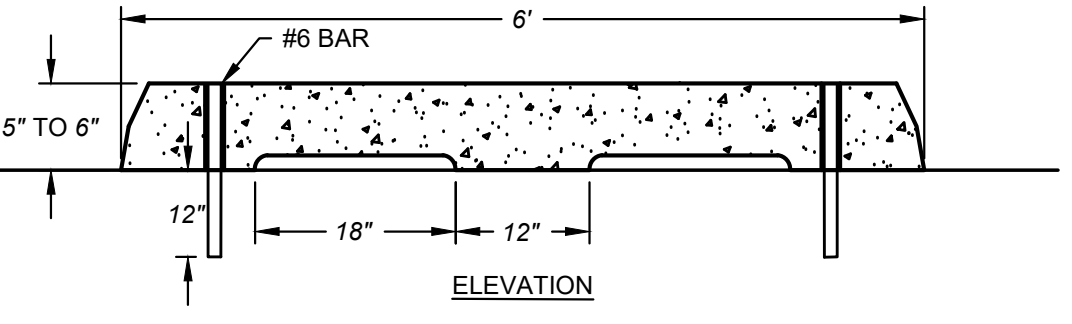
**STANDARD VAN ACCESSIBLE PARKING SPACE DETAIL**  
 SCALE: NONE

- NOTES:**
1. ALL SURFACE SLOPES WITHIN ADA SPACES SHALL NOT EXCEED 2.00% IN ANY DIRECTION.

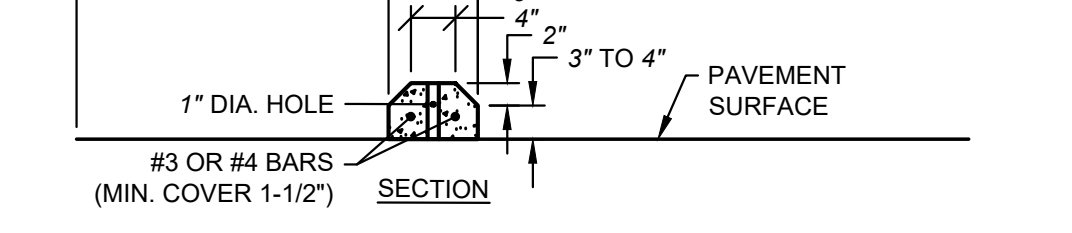


**ADA SYMBOL DETAIL**  
 SCALE: NONE

- NOTES:**
1. SIGNS ARE TO CONFORM TO MUNICIPALITY PARKING STANDARDS.
  2. HANDICAP SYMBOL IS TO BE PAINTED WHITE ON BLUE BACKGROUND.

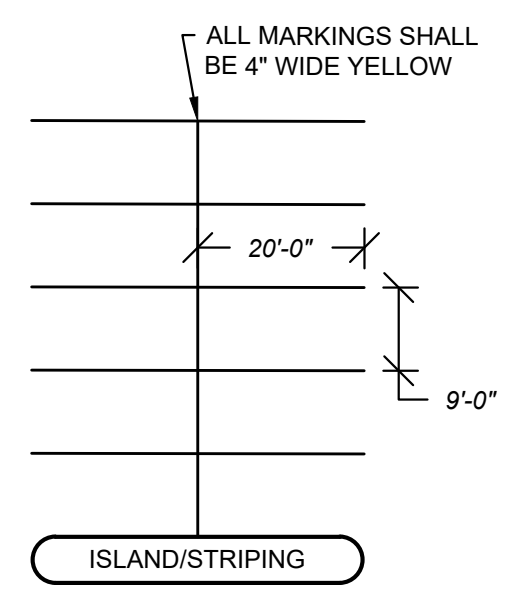


**PARKING CONCRETE CURB STOP DETAIL**  
 SCALE: NONE



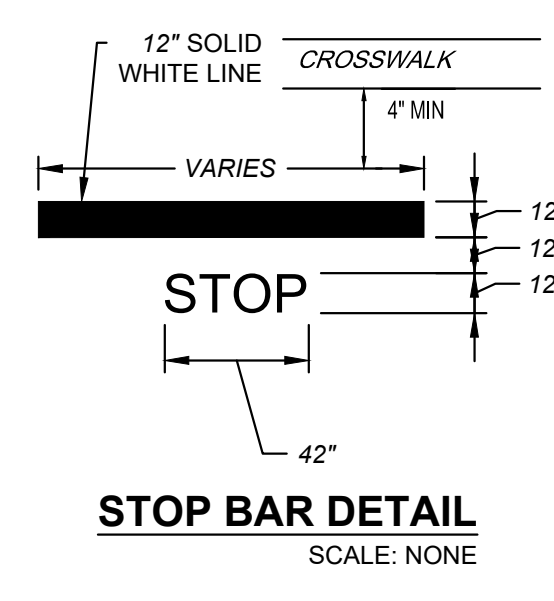
**PARKING STALL DETAIL**  
 SCALE: NONE

- NOTES:**
1. ALL DIMENSIONS ARE NOMINAL.
  2. CURB STOP SHALL BE PLACED SO THAT THE DIMENSION FROM THE FACE OF THE CURB STOP TO THE EDGE OF PAVEMENT, FACE OF CURB, OR FACE OF WALK IS AT A MIN. OF 30", AND MAX OF 36".



**STOP BAR DETAIL**  
 SCALE: NONE

- NOTES:**
1. TRAFFIC PAINT SHALL BE PER SPECIFICATIONS.
  2. PARKING SPACES AND ISLANDS PER DRIVE AISLE MAY VARY. REFER TO SITE PLAN FOR ADDITIONAL INFORMATION.
  3. REFER TO SITE PLAN FOR STRIPING LAYOUT, AND EXCEPTIONS TO THIS DETAIL.



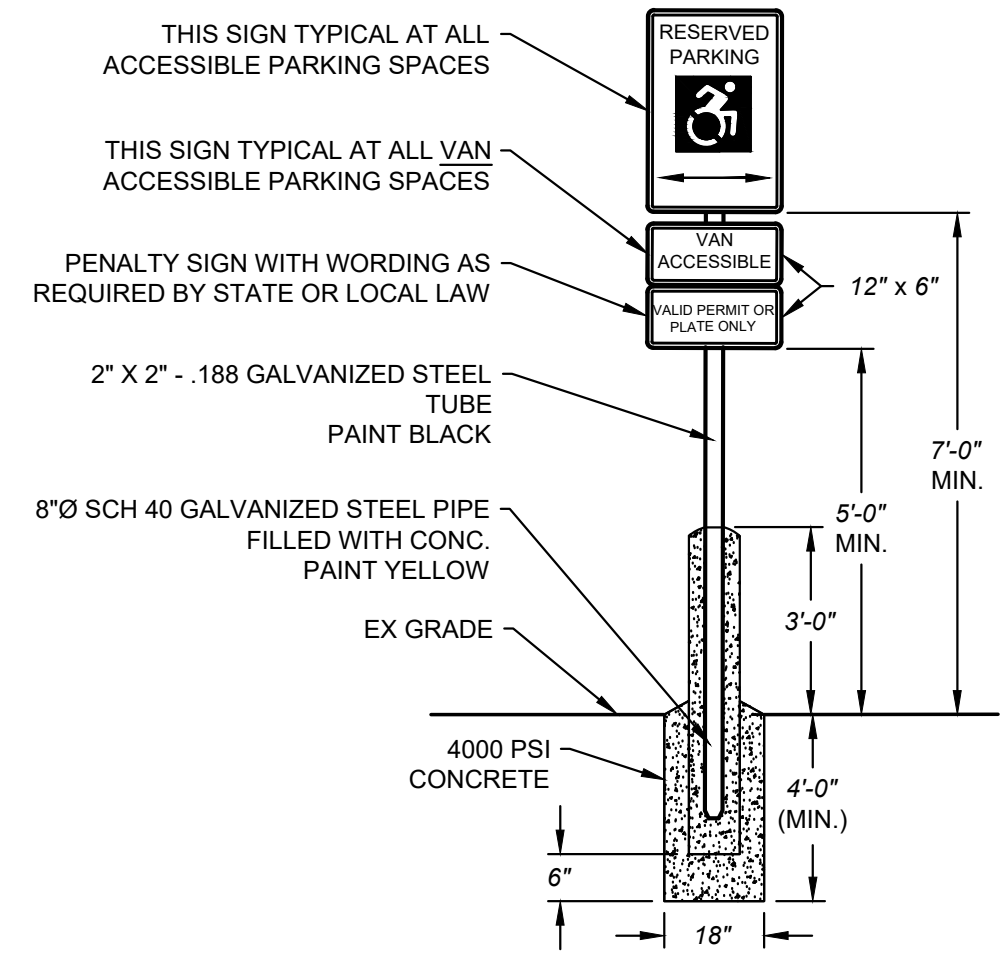
**STOP SIGN DETAIL**  
 SCALE: NONE

- NOTES:**
1. THE BAR AND WORDING ARE TO BE WHITE.
  2. LETTERING IS TO BE CENTERED ON THE STOP BAR.
  3. SEE SITE PLAN FOR LOCATION AND ORIENTATION.

**TRAFFIC CONTROL SCHEDULE**

SIGN NUMBER	SIGN	SIZE OF SIGN		DESCRIPTION	MOUNT TYPE	MOUNT HEIGHT SEE NOTE	REMARKS
		WIDTH	HEIGHT				
R1-1	STOP	30"	30"	STOP	CHANNEL	7'-0"	REFLECTORIZED SIGN

NOTE: HEIGHT SHOWN IS FROM GROUND TO BOTTOM OF SIGN



**ADA PARKING SIGN DETAIL**  
 SCALE: NONE

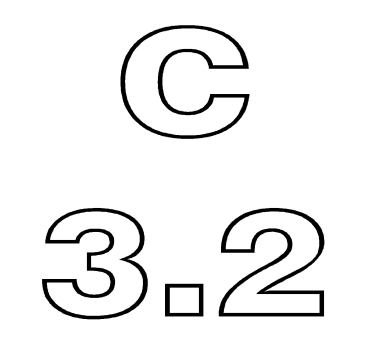
- NOTES:**
1. THIS SIGN TYPICAL AT ALL ACCESSIBLE PARKING SPACES
  2. THIS SIGN TYPICAL AT ALL VAN ACCESSIBLE PARKING SPACES
  3. PENALTY SIGN WITH WORDING AS REQUIRED BY STATE OR LOCAL LAW

Phase I Early Sitemark Package for:  
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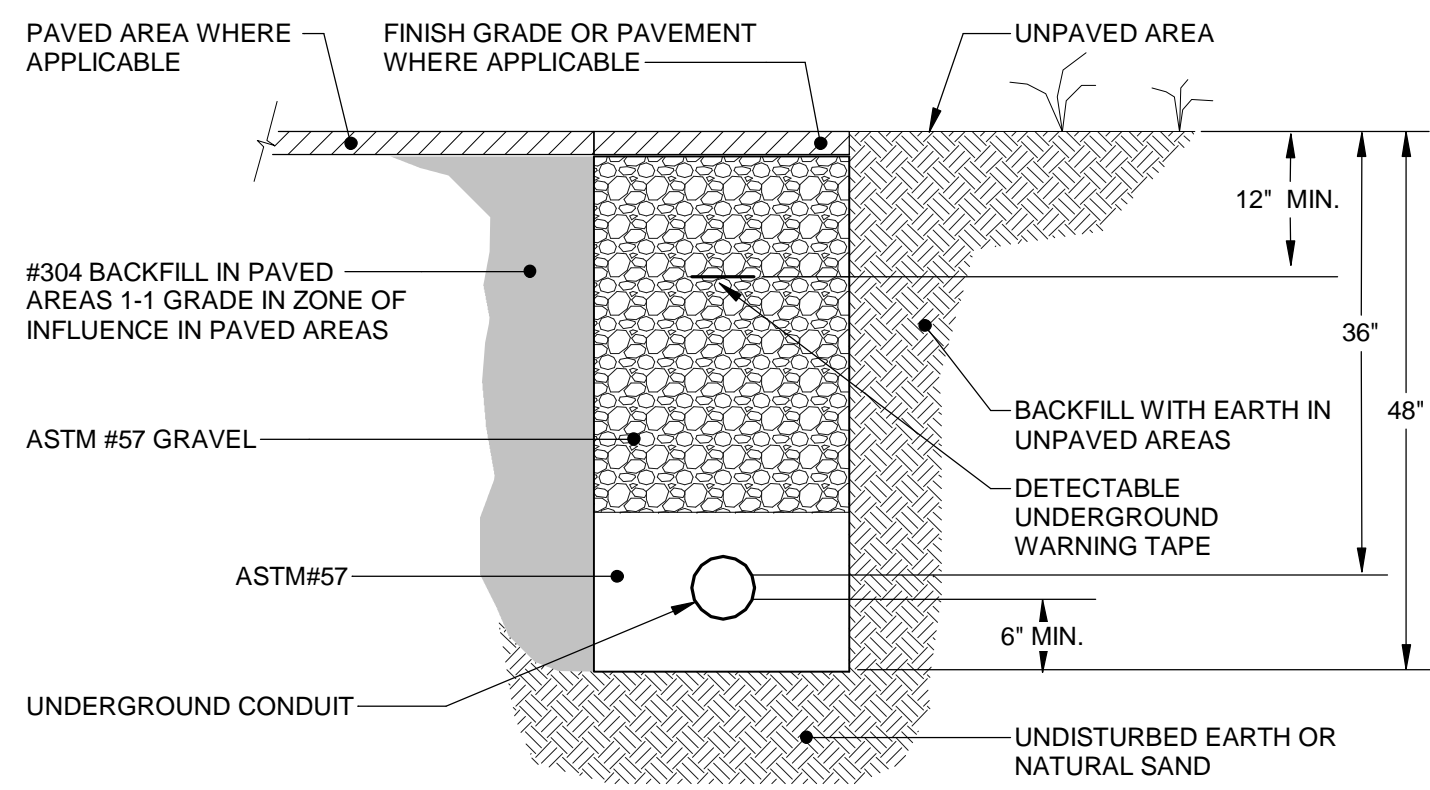
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 614-267-6900 614-267-6978 fax

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**CONSTRUCTION DETAILS**







**NOTES:**

1. REFER TO SPECIFICATIONS FOR PRODUCT INFORMATION.
2. LOCATE UNDERGROUND CONDUIT AT A MINIMUM OF 10'-0" FROM NEAREST TREE, OR AS DIRECTED IN FIELD BY THE LANDSCAPE ARCHITECT.
3. CONCRETE ENCASE CONDUIT(S) UNDER ROADWAYS, DRIVEWAYS AND PARKING LOTS. MINIMUM OF 3" CONCRETE ENCASEMENT. (NOT APPLICABLE FOR BRANCH CIRCUITS.)

**TYPICAL UNDERGROUND CONDUIT INSTALLATION DETAIL**

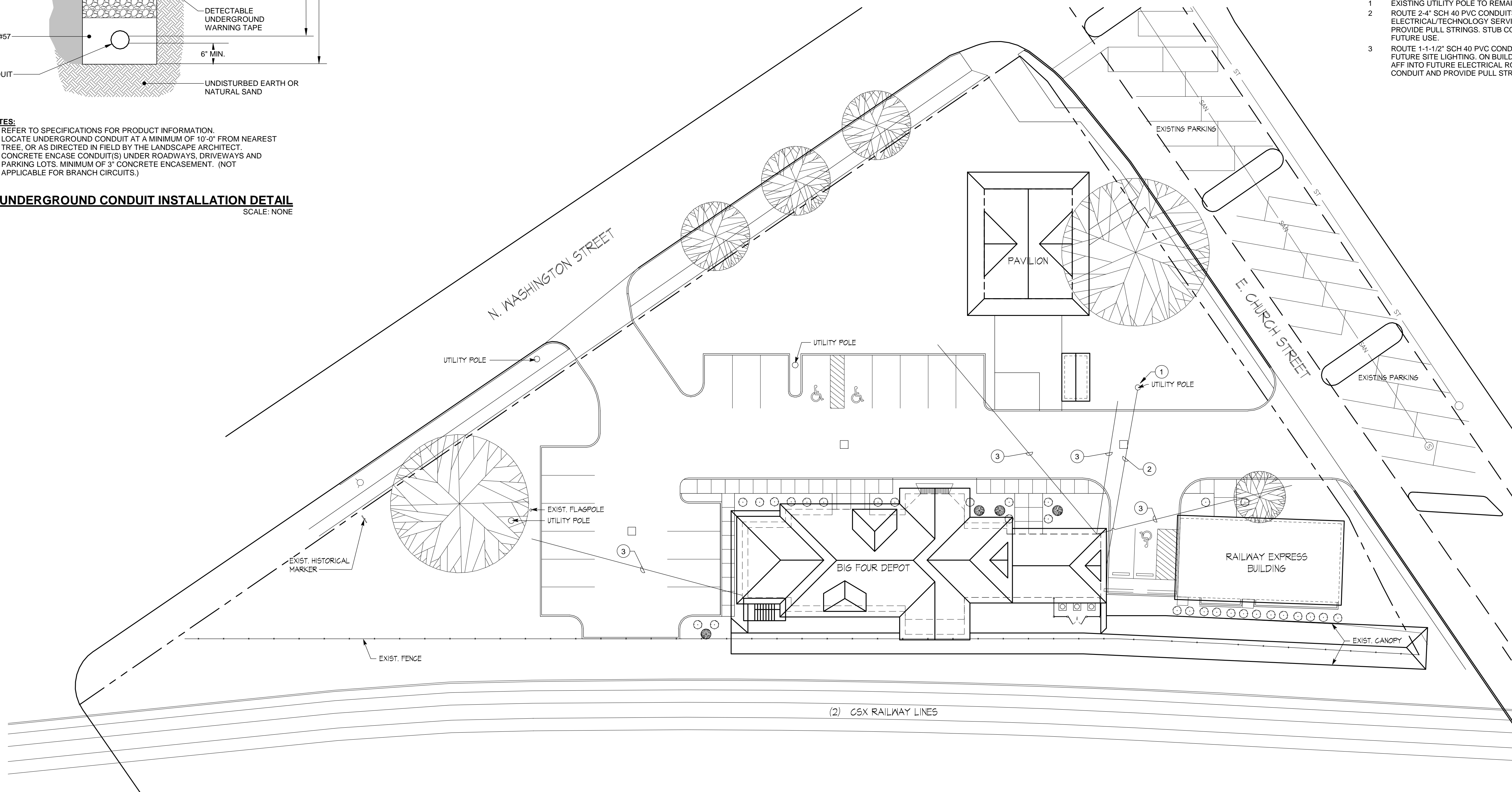
SCALE: NONE

**GENERAL NOTES:**

- A. ALL CONDUITS ARE FOR FUTURE PROJECT USE.
- B. ALL CONDUITS ARE TO BE CAPPED AND PROVIDED PULL STRINGS FOR FUTURE EXTENSION/CONDUCTOR USE.

**PLAN NOTES**

1. EXISTING UTILITY POLE TO REMAIN.
2. ROUTE 2" SCH 40 PVC CONDUITS UNDERGROUND FOR FUTURE ELECTRICAL/TECHNOLOGY SERVICE USE. CAP CONDUITS AND PROVIDE PULL STRINGS. STUB CONDUITS INTO BUILD FOR FUTURE USE.
3. ROUTE 1-1/2" SCH 40 PVC CONDUIT TO BE EXTENDED FOR FUTURE SITE LIGHTING. ON BUILDING SIDE, STUB CONDUIT UP 2' AFF INTO FUTURE ELECTRICAL ROOM. ON OTHER SIDE, CAP CONDUIT AND PROVIDE PULL STRINGS.



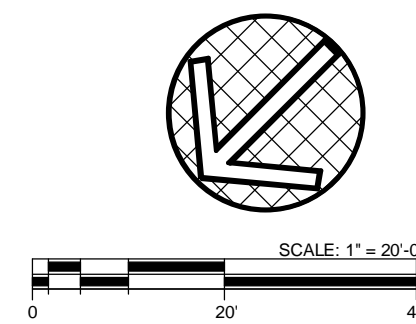
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