

ADDENDUM NO. FOUR

PROJECT: Johnson County Recycling Center

PROJECT NUMBER: 23122

DATE OF ADDENDUM: June 5, 2024



THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND IS ISSUED IN ACCORDANCE WITH THE INSTRUCTIONS TO BIDDERS. ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY SIGNING THE ADDENDUM ACKNOWLEDGMENT SECTION OF THE BID FORM.

Questions:

Q: What is the material for the gates.? Those will be some sizeable double swing gates for that shadow box style of fence?

A: These will not be shadow box gates they will be a galvanized steel swing gate.

Q: What is the total linear footage you show for the shadowbox fencing? I'm seeing two gates but not the opening size—are these walk gates or Drive gates?

A: The shadowbox fence length is 320 feet. The gates on site will be drive gates not walking gates.

Q: S001 calls for seismic site class "D", soils report indicates site class "C". Should we design for site class "C" or "D"?

A: Site Class is C. Report was completed after the drawings were completed as noted in the Foundation Notes on S001. The Geotech Report can be followed. See below for the updated Seismic Design Criteria that will be updated once the final PEMB loads are

provided.

1	B. Seismic Load	
	Site Classification	C
	Risk Category (IBC Table 1604.5)	II
	Seismic Importance Factor, Ie	1.0
	Mapped Spectral Response Acceleration, Ss	0.167g
	Mapped Spectral Response Acceleration, S1	0.089g
	Design Spectral Response Acceleration, Sds	0.134
	Design Spectral Response Acceleration, Sd1	0.101
	Seismic Design Category, SDC	B
	Response Modification Coefficient, R	3
	Seismic Response Coefficient, Cs	0.045

Q: S001 PEMB notes basically state that the "PEMB design loads indicate 10 PSF collateral load but can be reduced to 5 PSF". I didn't see a collateral load listed in any of the design criteria. Should we design for a 5 PSF or 10 PSF uniform collateral load for all frames and roof secondaries?

A: 5psf

Q: The overall dimensions on the architectural and structural drawings do not match up. Which one should be used?

A: Structural has dimensioned to Steel Lines of PEMB, Architectural are to the outside face of the building. Use architectural to the outside face of the metal paneling,

Q: It is very likely the lead time for the PEMB building is not going to allow for a March/April completion date. We are currently doing a 9,300 square foot PEMB building for Purdue right now and it was 4 months to receive the building from bid day and that was expediting everything.

A: The owner would like to be able to move in as was indicated in the prebid meeting; however, the owner understands that there might be lead time issues outside of the contractors control

Q: Do you have the CDR already?

A: By the time the contract is signed, the contractor will have an early foundation release to be able to start moving dirt. State requires sealed PEMB drawings for complete release

Q: Are there liquidated damages?

A: There aren't liquidated damages on this building

Q: Will item 3.4.5 in the example contract be enforced? We have a few subs concerned about that and would like to make sure I include the administration costs associated with that.

- **3.4.5 The Contractor shall perform a criminal history check for all workers including all subcontractors prior to starting work on the project. A list of workers who have successfully passed the criminal history check and who will be working on the project shall be provided to the Owner's representative. Only persons who have successfully passed the criminal history check will be allowed to work on the project. The Contractor and all subcontractors shall provide written verification to the Owner's representative that all persons working on the project have completed and filed valid I-9 forms and are eligible for employment on the project**

A: Yes, we expect the GC to control who comes on site and verify that the people coming on site are cleared to work on the project

Attachments: Civil Addendum and re-issued civil set, pavement cross-sections

End of Addendum 4



Johnson County Recycle Center
Addendum Plan Changes Summary

- Sheet 100
 - o Updated the INDOT Specs to be dated 2024
- Sheet 200
 - o Added Note 3 to the Topographical Notes regarding demolition of the existing drive and access to the adjacent business
- Sheet 300
 - o Changed the striping and added words at the exit aisle from the drive through; added item 5 to the Site Dimension Legend
 - o Added striping between the two entrance bays to the drive through
 - o Reduced sidewalk width along the edge of pavement of the exit drive aisle to 4 feet wide
 - o Added space for a second Tox Box south of the building and modified the sidewalk accordingly
 - o Added small concrete pad for mechanical equipment north of the building
 - o Added Note 9 regarding drive construction and adjacent business access
- Sheet 400
 - o Adjusted downspouts on the north side of the building. Downspout at the west end to be collected and piped to pond. Remaining downspouts on north to be joined and piped to Str. No. 4. Modified Storm Downspout Data Table accordingly.
 - o Modified pipe type and size for Str. No. 5 leaving the ADS Duraslot XL Trench Drain. Pipe is now 10" HDPE pipe
 - o Added Note 14 to the Utility Notes
- Sheet 500
 - o Added ditch from pond spillway to existing ditch south of building
 - o Adjusted grades around additional Tox Box
 - o Adjusted grades at sidewalk along edge of pavement south of the building
- Sheet 600
 - o Added Drainage Notes to the sheet
- Sheet 700
 - o Added Utility Crossings for Line 'STM-C'
 - o Added invert information for Line 'STM-D'
 - o Corrected the pipe size and type for Line 'STM-E' as well as fixing the grade tags
- Sheet 701
 - o Revised Line 'STM-G' for clarity and new profile grade
- Sheet 800
 - o Added Utility Crossings for Line 'SS-A'
 - o Changed the pipe type to be SDR-26 instead of SDR-35
 - o Added Sanitary Main Installation Notes

- Sheet 900
 - o Added Erosion Control Blanket along new ditch cut from the pond spillway to the drive culvert
 - o Adjusted limits of construction around the southern portion of the property
- Sheet 901
 - o Adjusted A22 and A23 accordingly with changes to construction limits
- Sheet 1000
 - o Added more information for the retaining wall details including thickness, footing depth, and rebar
- Sheet 1200
 - o Adjusted location of all trees and shrubs. Added callouts for the desired type of tree to be used at each location

FINAL CONSTRUCTION PLANS

JOHNSON COUNTY RECYCLE CENTER

2250 N. GRAHAM ROAD

FRANKLIN, INDIANA 46131



VICINITY MAP
NO SCALE



LOCATION MAP
NO SCALE

PLAN INDEX	
SHEET #	SUBJECT
100	TITLE SHEET
200	TOPOGRAPHICAL SURVEY
300	SITE DIMENSION PLAN
400	UTILITY PLAN
500	GRADING PLAN
600	DRAINAGE PLAN
700-701	STORM PLAN AND PROFILE
800	SANITARY PLAN AND PROFILE
900	EROSION CONTROL PLAN
901	STORMWATER POLLUTION PREVENTION PLAN
1000-1001	MISCELLANEOUS DETAILS
1100	SPECIFICATIONS
1200	LANDSCAPE PLAN
E00	SITE LIGHTING & PHOTOMETRIC PLAN
E01	GREY SCALE RENDERING
E02	SITE LIGHTING DETAILS

OWNER/DEVELOPER
 JOHNSON COUNTY SOLID WASTE DISTRICT
 86 W. COURT STREET
 FRANKLIN, IN 46131
 PHONE: (317) 346-4301
 CONTACT: KEVIN WALLS
 EMAIL: kwalls@co.johnson.in.us

ENGINEER
 CROSSROAD ENGINEERS, PC
 115 N. 17TH AVENUE
 BEECH GROVE, IN 46107
 PHONE: (317) 780-1555
 CONTACT: GREGORY J. ILKO
 EMAIL: gilko@crossroadengineers.com

ALL IMPROVEMENTS SHALL COMPLY WITH ALL APPLICABLE ADA REQUIREMENTS

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DETAILS DATED 2024 TO BE USED WITH THESE PLANS

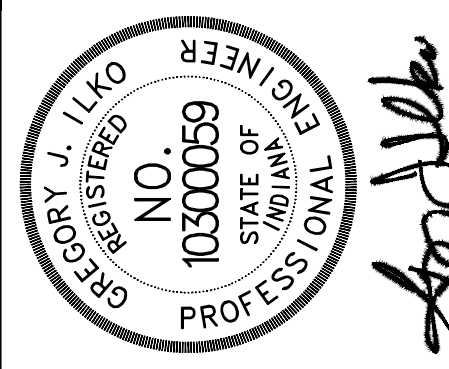
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 INSTRUMENT NO. 2023-000852
 LOT NUMBERED ONE IN THE LINVILLE COMMERCIAL MINOR SUBDIVISION AS RECORDED IN PLAT CABINET E, SLIDE 359B AND AS INSTRUMENT NO. 2019-000197 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA.

UTILITY CONTACTS

Note: Listed below are the Indiana Underground Plant Protection Services Contacts. Others not listed may exist. The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantee that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

UTILITY	COMPANY	CONTACT	PHONE	EMAIL
COMMUNICATIONS	MCI	DEAN BOYERS	469-886-4238	investigations@verizon.com
FIBER OPTIC	BRIGHTSPEED	MELISSA TEAGUE	765-656-4663	melissa.teague@brightspeed.com
FIBER OPTIC	METRO FIBERNET	MARK DECKARD	812-253-2196	rrhwpermits@metronetinc.com
ELECTRIC	DUKE ENERGY	JESSICA TURNER	812-662-2007	jessica.turner3@duke-energy.com
SANITARY	CITY OF FRANKLIN DPW	EVAN HART	317-412-8450	ehart@franklin.in.gov
WATER	INDIANA AMERICAN WATER COMPANY	TRACY WHITE	317-885-2426	tracys.white@iamwater.com
GAS	CENTERPOINT ENERGY	JON EASTHAM	765-287-2119	publicproject@centerpointenergy.com
FIRE DEPARTMENT	CITY OF FRANKLIN	BRYNE PURSIFULL	317-736-3650	bpursifull@franklin.in.gov

TITLE SHEET
 JOHNSON COUNTY RECYCLE CENTER

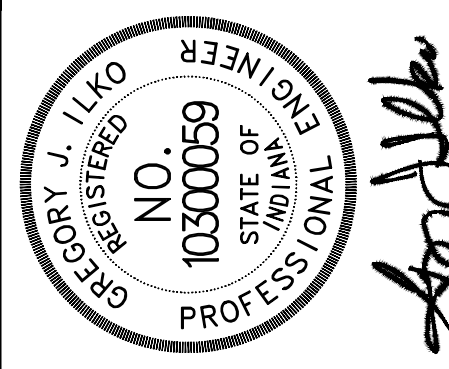


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1	05.09.24	REVISIONS PER JOB OUTSIDE REVIEW COMMENTS	BTJ	GJI

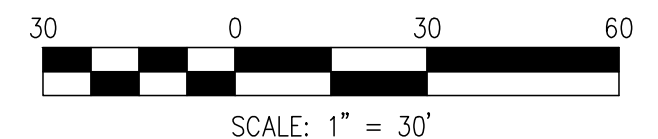
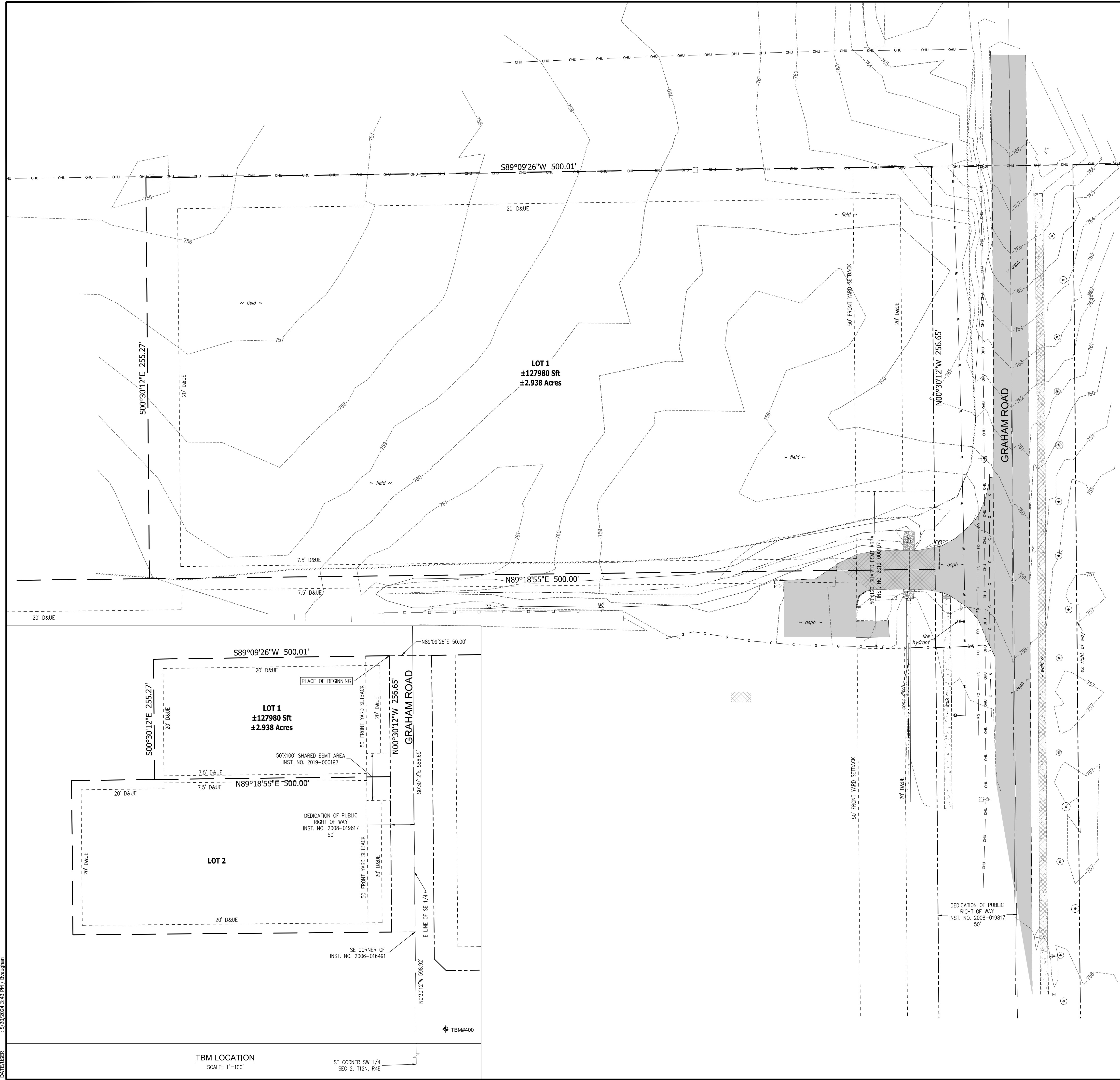
TOPOGRAPHICAL SURVEY

JOHNSON COUNTY RECYCLE CENTER

JOB NO.	BTW	CHECKED	BTW
DATE	APRIL 11, 2024	DESIGNED	BTW
		APPR.	GJI



NO.	9	8	7	6	5	4	3	2	1
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REVISIONS PER CITY OF FRANKLIN REVIEW COMMENTS									
DATE								05.21.24	05.09.24
BY								BTW	GJI
APPR.									



EXISTING LEGEND

POWERPOLE W/RISER	CONTOURS
POWERPOLE W/LIGHT	PROPERTY LINE
GUY WIRE	SECTION LINE
WATER VALVE	RIGHT-OF-WAY
FIRE HYDRANT	EASEMENT
WATER METER	ADJOINER LINE
GAS VALVE	PAVEMENT LINE
SIGN	FIELD LINE
MAILBOX	FENCE
TEMP. BENCHMARK	DITCH
MONUMENT FOUND	WATER LINE
ASPHALT	GAS LINE
GRAVEL	FIBER OPTIC LINE
CONCRETE	OVERHEAD UTILITY LINE
REMOVAL/DEMOLISH	SANITARY SEWER W/MANHOLE
	STORM SEWER W/ END SECTION

TOPOGRAPHICAL NOTES

- CONTRACTOR SHALL DISPOSE OF ALL MATERIALS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
- UTILITIES ARE GRAPHICAL REPRESENTATION PER SURVEY AND MAPPING. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
- PRIOR TO ANY DEMOLITION OF THE EXISTING DRIVE ENTRANCE, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ENGINEER TO ENSURE ACCESS IS MAINTAINED TO THE ADJACENT BUSINESS AT ALL TIMES. NO WORK SHOULD BE DONE ON THE DRIVE ENTRANCE WITHOUT COORDINATION WITH THE ADJACENT BUSINESS AS TO ENSURE THEIR ACCESS IS MAINTAINED. THE ADJACENT BUSINESS MUST ALSO BE NOTIFIED PRIOR TO ANY MODIFICATIONS TO THE EXISTING DRIVE.

FLOODPLAIN INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS TRACT OF LAND DESCRIBED HEREON LIES WITHIN ZONE 'X' (AREAS OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND IS NOT IN A SPECIAL FLOOD HAZARD AREA AS PLOTTED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR JOHNSON COUNTY, INDIANA, COMMUNITY PANEL NO. 18081C0143E, WHICH BEARS AN EFFECTIVE DATE OF JANUARY 29, 2021.

BENCHMARK INFORMATION

ORIGINATING BENCHMARK
 DESIGNATION - X 13
 PID - KA0010
 STATE/COUNTY - IN/MORGAN
 USGS QUAD - MOOREVILLE EAST (1980)

VERT ORDER - FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1946
 1.2 MI N FROM WAVERLY, IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY, 125 YARDS NORTH OF THE MORGAN-JOHNSON COUNTY LINE, 26 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST RIGHT-OF-WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED 686.370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST PROTECTING 7 INCHES ABOVE GROUND.

RECOVERY NOTE BY IN DEPT OF NAT RES 1985
 NEW DESC- AT THE INTERSECTION OF NEW STATE ROAD 144 AND OLD STATE ROAD 37, IN THE SOUTHWEST QUARTER OF THE INTERSECTION, WITNESS POST IS GONE RIGHT-OF-WAY FENCE IS GONE, ALL OTHER INFORMATION APPEARS TO BE CORRECT.

ELEV. = 685.94 (NAVD 88)
 TBM #400
 CUT 'BOX' ATOP SW MOST CORNER OF CONC HEADWALL @ SE QUAD OF 'LINVILLE WAY' & 'GRAHAM RD'
 ELEV. = 754.94

LEGAL DESCRIPTION

INSTRUMENT NO. 2023-000652
 LOT NUMBERED ONE IN THE LINVILLE COMMERCIAL MINOR SUBDIVISION AS RECORDED IN PLAT CABINET E, SLIDE 3598 AND AS INSTRUMENT NO. 2019-000197 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA.

UTILITY CONTACTS

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FIBER OPTIC	BRIGHTSPEED	MELISSA TEAGUE	765-656-4663	melissa.teague@brightspeed.com
FIBER OPTIC	METRO FIBERNET	MARK DECKARD	812-253-2196	mwd@metrofibernet.com
ELECTRIC	DUKE ENERGY	JESSICA TURNER	812-662-2007	jessica.turner@duke-energy.com
SANITARY	CITY OF FRANKLIN DPW	EVAN HART	317-412-8450	ehart@franklin.in.gov
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GAS	CENTERPOINT ENERGY	JON EASTHAM	765-287-2119	publicproject@centerpointenergy.com
FIRE DEPARTMENT	CITY OF FRANKLIN	BYRNE PURSFULL	317-736-3650	bpursful@franklin.in.gov

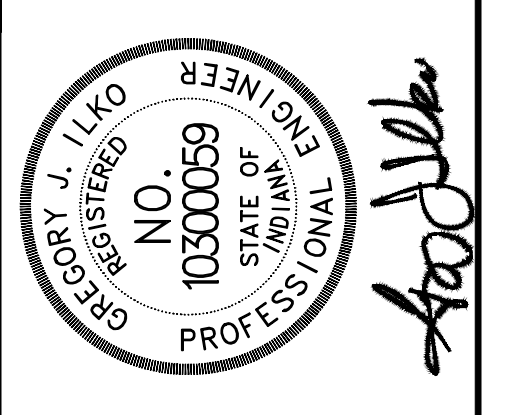
EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.



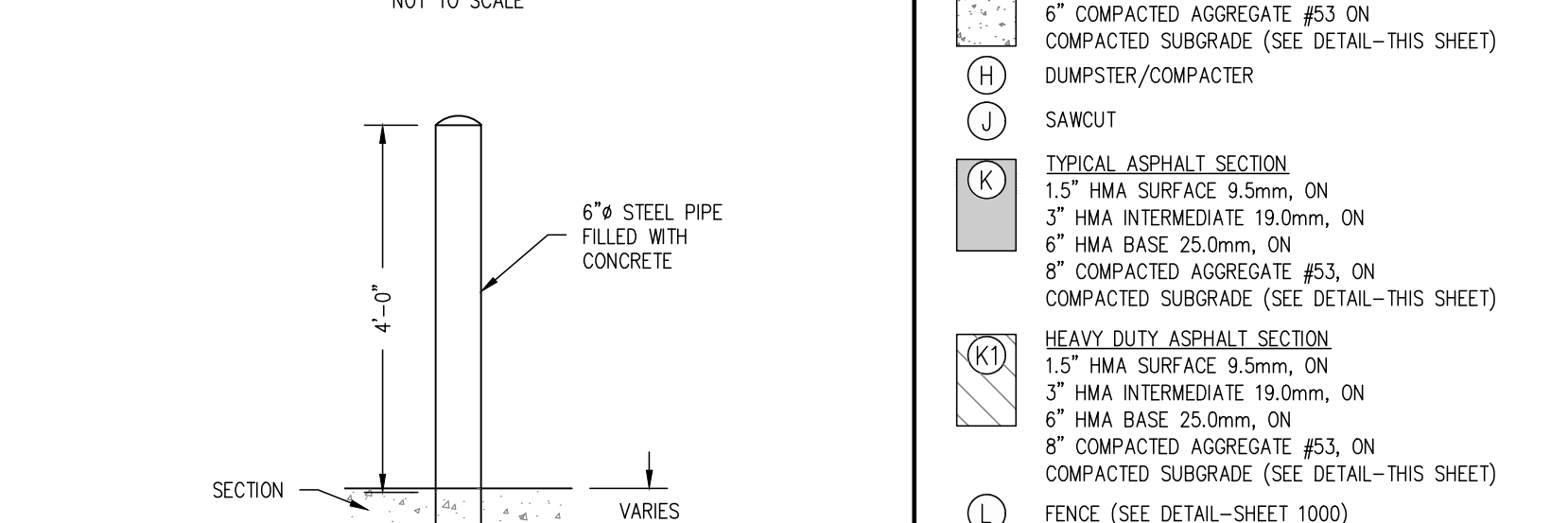
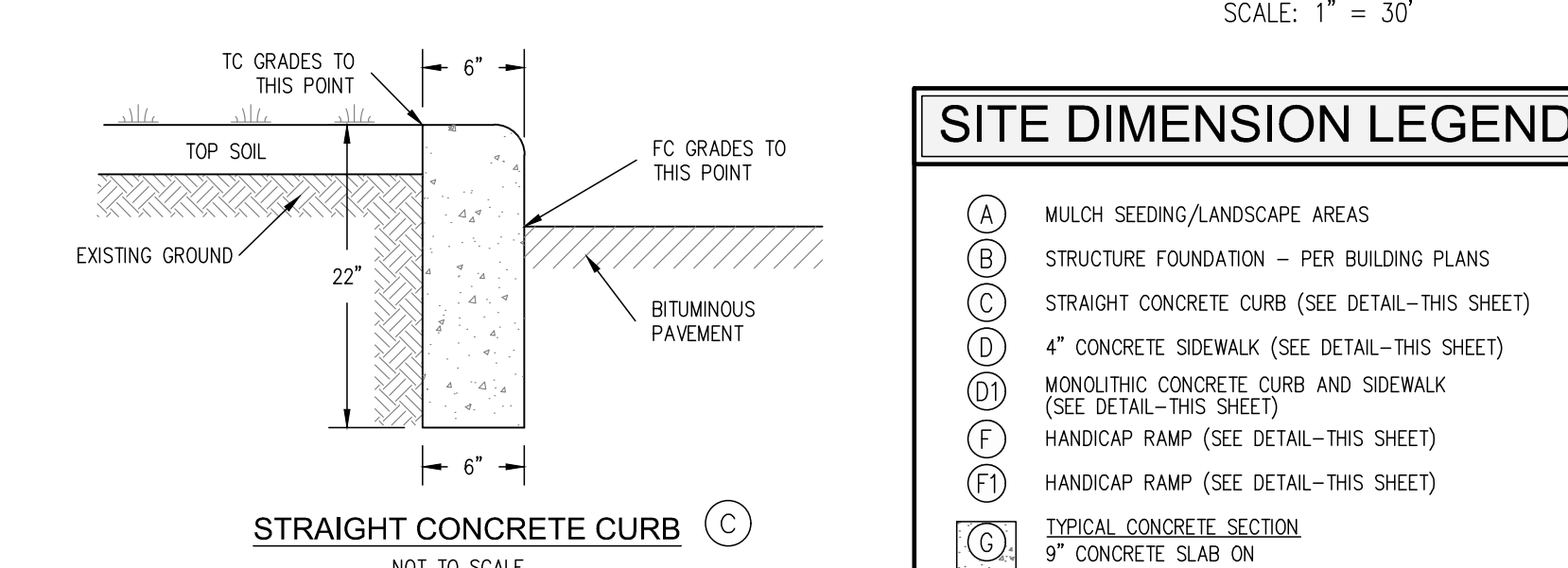
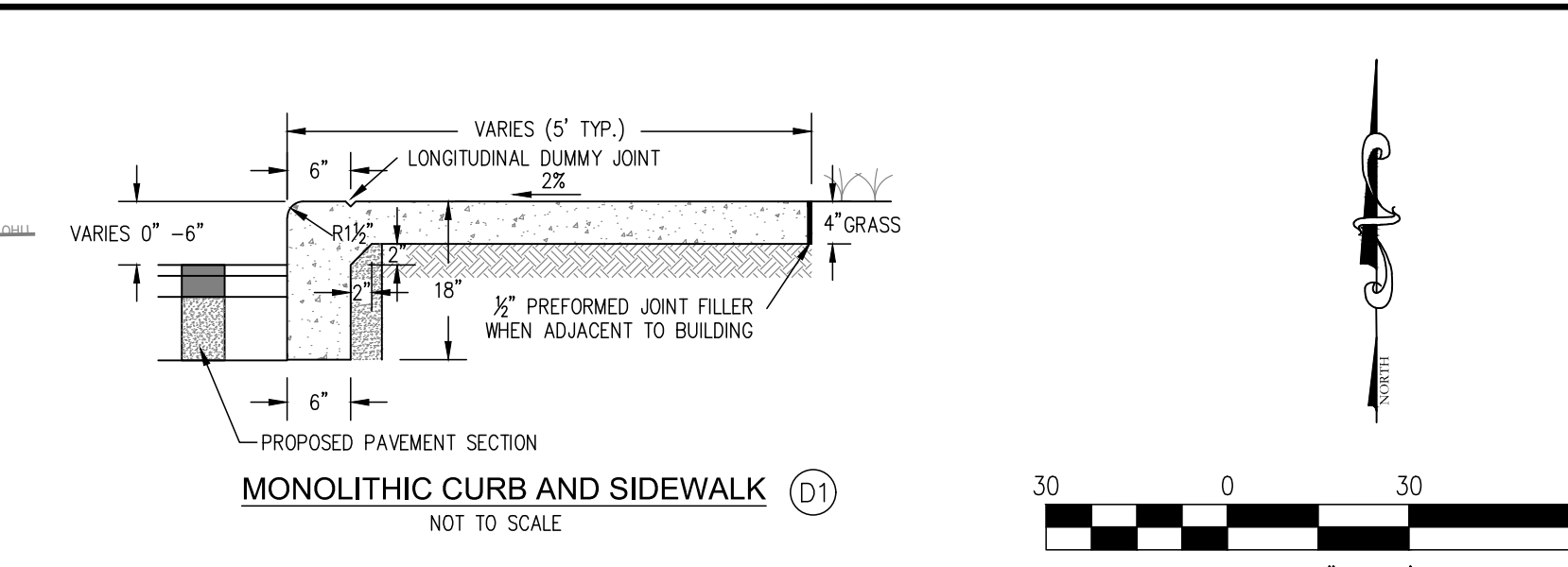
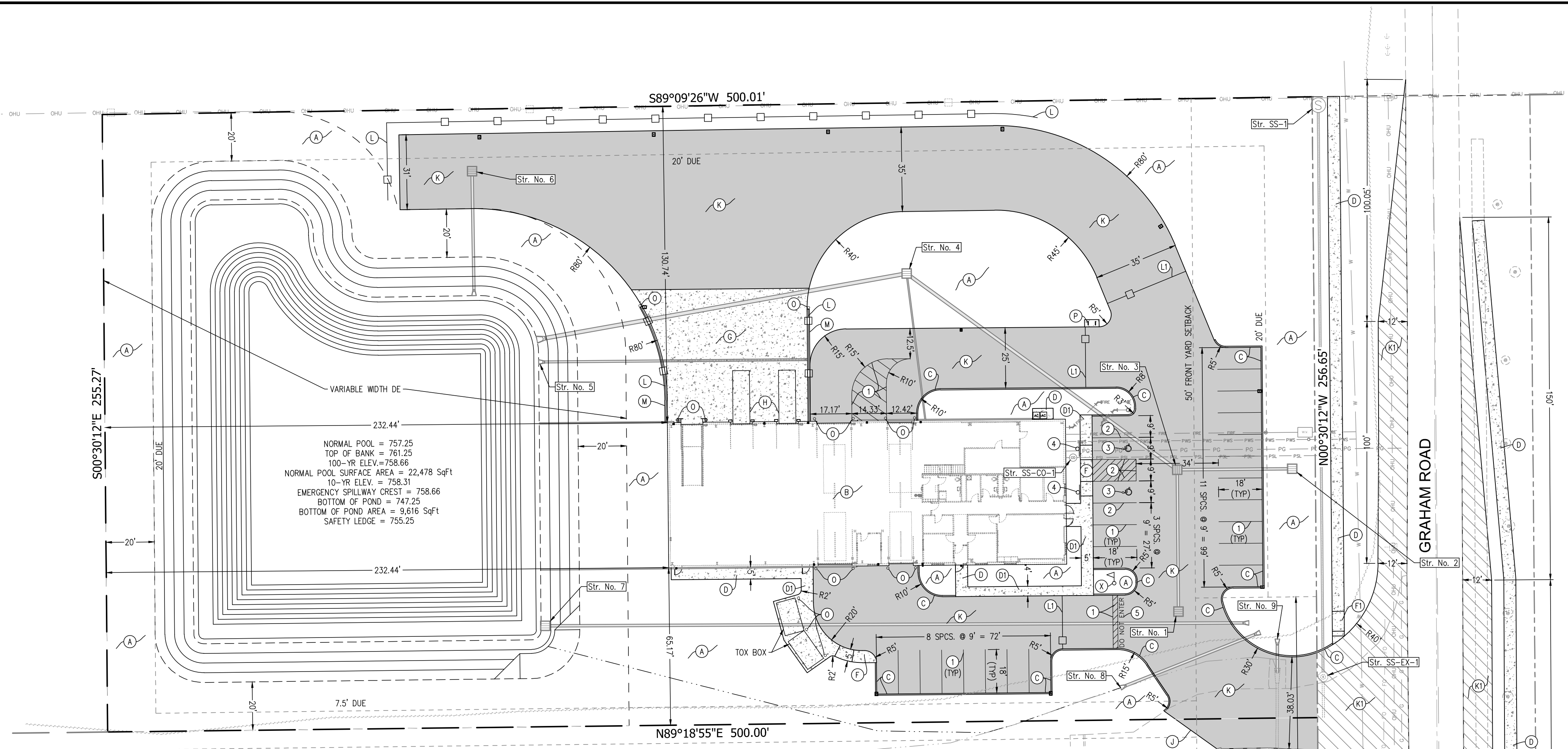
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TBM LOCATION
 SCALE: 1"=100'

SE CORNER SW 1/4
 SEC 2, T12N, R4E

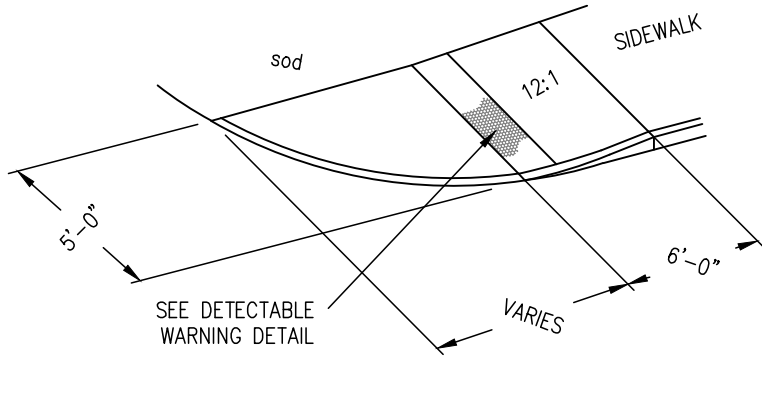
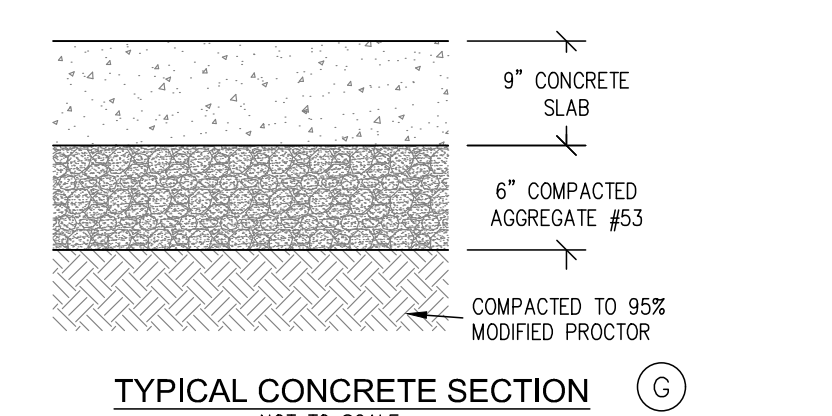
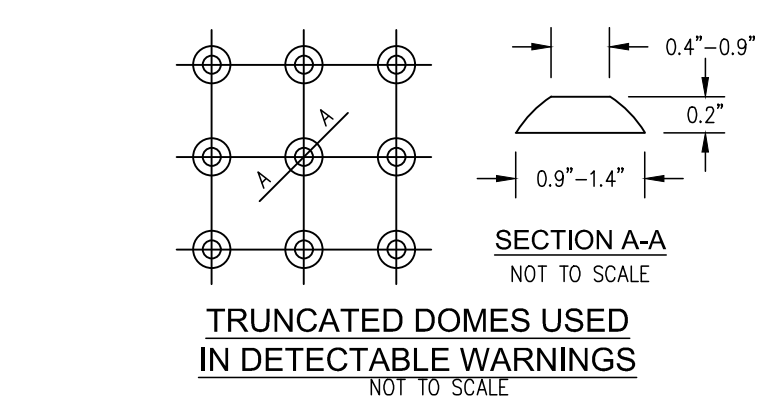
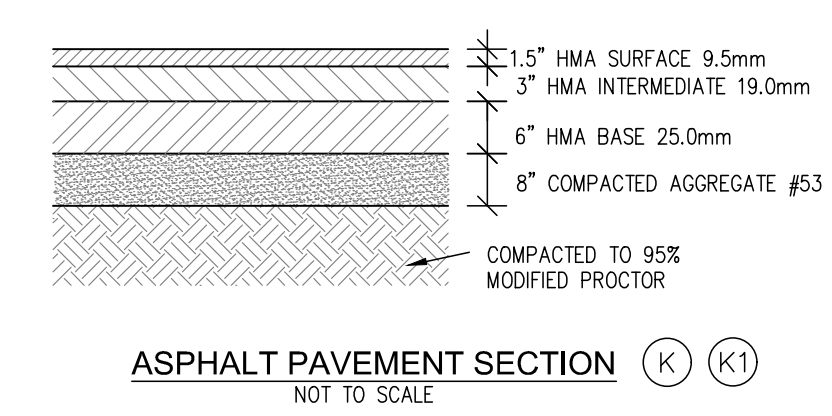
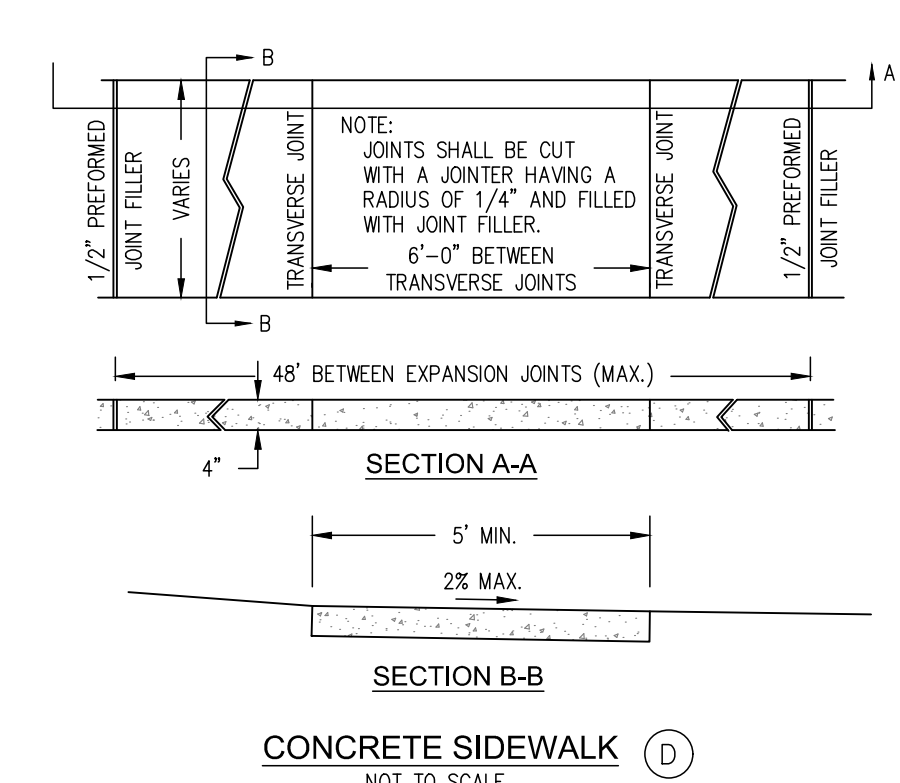


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2	05.09.24	BY	REVISED PER JOB OUTSIDE REVIEW COMMENTS
3		BY	
4		BY	
5		BY	
6		BY	
7		BY	
8		BY	
9		BY	



SITE DIMENSION LEGEND

- (A) MULCH SEEDING/LANDSCAPE AREAS
- (B) STRUCTURE FOUNDATION - PER BUILDING PLANS
- (C) STRAIGHT CONCRETE CURB (SEE DETAIL-THIS SHEET)
- (D) 4\"/>
- (E) MONOLITHIC CONCRETE CURB AND SIDEWALK (SEE DETAIL-THIS SHEET)
- (F) HANDICAP RAMP (SEE DETAIL-THIS SHEET)
- (G) HANDICAP RAMP (SEE DETAIL-THIS SHEET)
- (H) TYPICAL CONCRETE SECTION
 9\"/>
- (I) TYPICAL ASPHALT SECTION
 1.5\"/>
- (J) HEAVY DUTY ASPHALT SECTION
 1.5\"/>
- (K) FENCE (SEE DETAIL-SHEET 1000)
- (L) SWING GATE (DETAIL PER OWNER)
- (M) RETAINING WALL (SEE DETAIL-SHEET 1000)
- (N) BOLLARD (SEE DETAIL-THIS SHEET)
- (O) BICYCLE RACK (SEE DETAIL-THIS SHEET)
- (P) FLAG POLE PER OWNER
- (Q) LINE, PAINTED, SOLID WHITE, 4\"/>
- (R) LINE, PAINTED, SOLID BLUE, 4\"/>
- (S) HANDICAP SYMBOL, PAINTED, SOLID BLUE, 4\"/>
- (T) ADA SIGNAGE (SEE DETAIL THIS SHEET)
- (U) WORD "DO NOT ENTER", PAINTED, SOLID WHITE

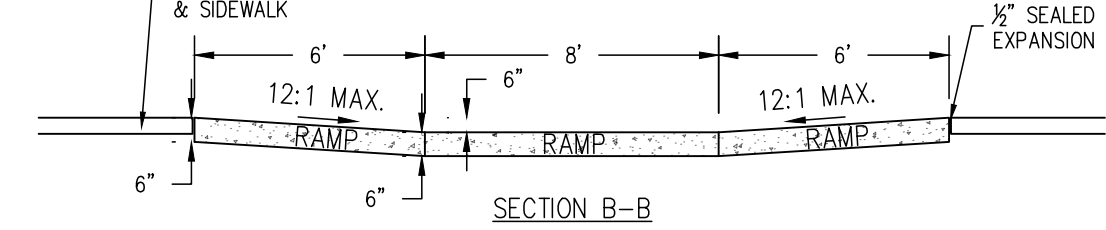
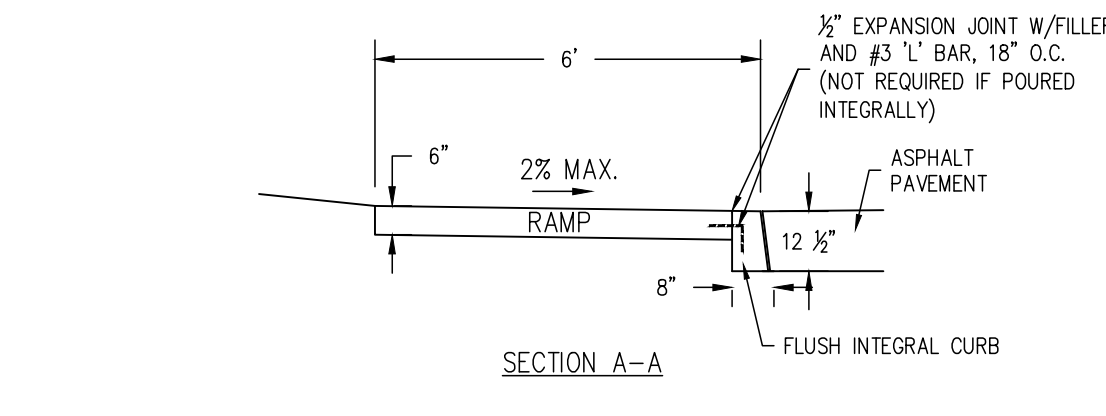
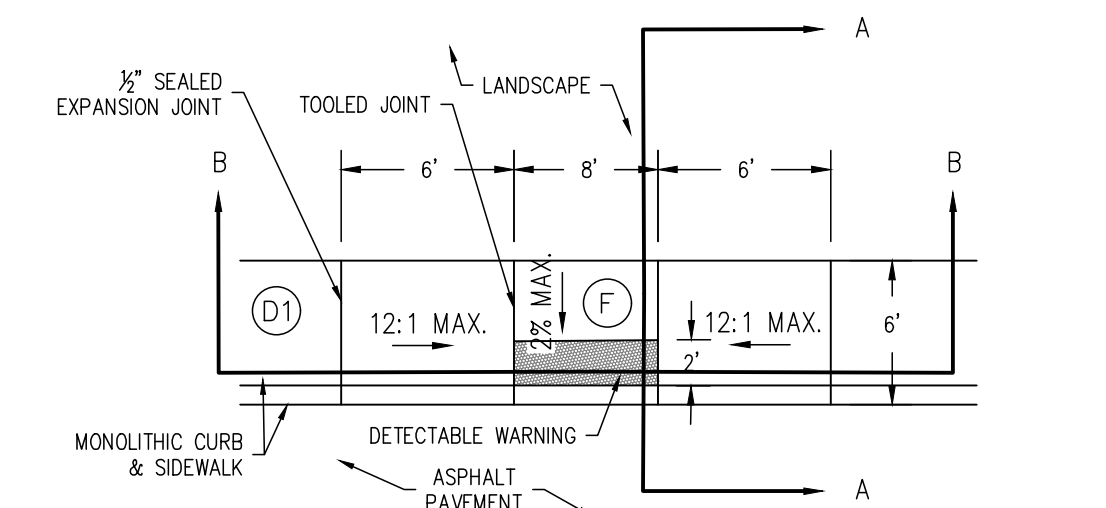
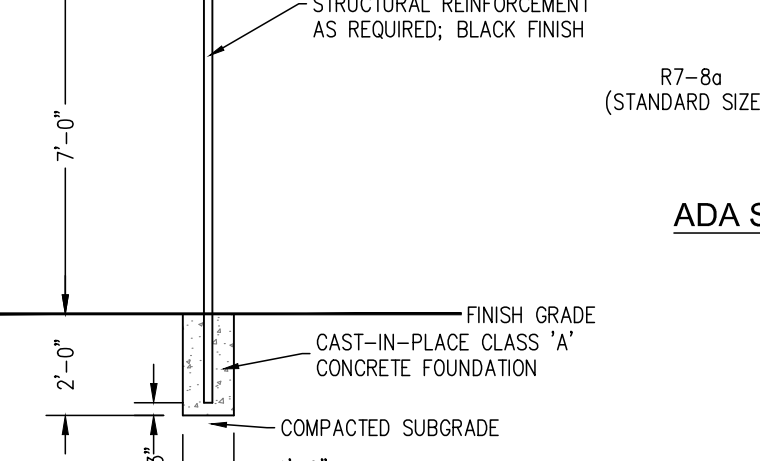
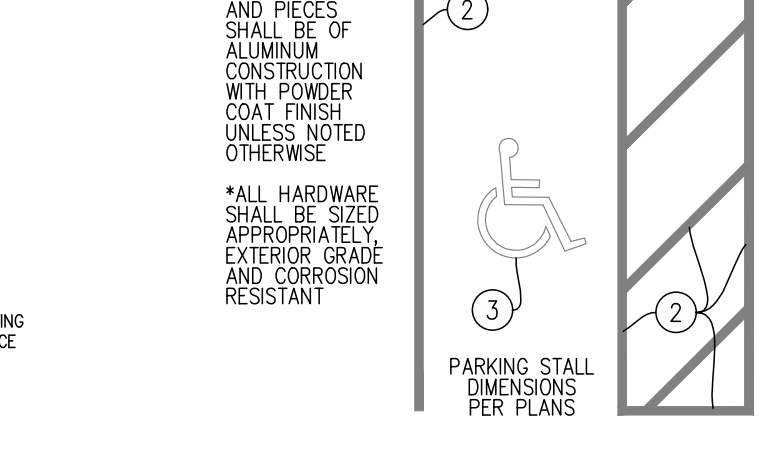
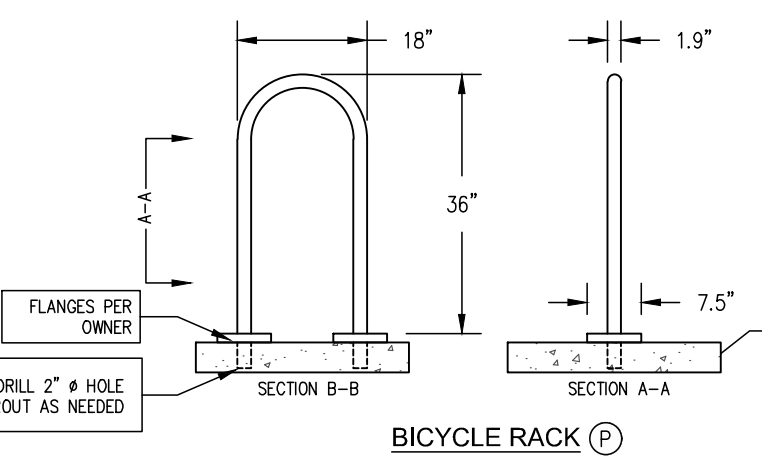


SITE DIMENSION NOTES

- CONTRACTOR SHALL NOTIFY ENGINEER, IF PROOF ROLL OF SUBGRADE FAILS, TO DETERMINE IF LIME STABILIZATION OF SUBGRADE IS NECESSARY.
- ALL RADI DIMENSIONS ARE TO THE BACK OF PROPOSED CURB OR EDGE OF PAVEMENT.
- SIGNAGE SHALL INCLUDE ALL NECESSARY HARDWARE AND FITTINGS, INCLUDING 10 FT. OF 1 1/2\"/>
- REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL SIGNAGE. VERIFY CONFLICTS WITH OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND PROVIDING ALL NECESSARY FLAGMAN, BARRELS, SIGNAGE, ETC. DURING CONSTRUCTION. ALL APPLICABLE MUT.T.C.D. STANDARDS SHALL GOVERN THIS WORK.
- CONTRACTOR SHALL COORDINATE WITH OWNER AND APPLICABLE UTILITY COMPANIES FOR CABLE, ELECTRIC, GAS, AND TELEPHONE SERVICE INSTALLATIONS.
- EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.
- PROOF ROLL OF PAVEMENT SECTIONS IN THE R/W (SUBGRADE AND STONE BASE) SHALL BE PERFORMED AND SHALL BE WITNESSED BY CITY ENGINEERING STAFF. CONTACT CITY OF FRANKLIN ENGINEERING AT LEAST 48 HOURS PRIOR TO PERFORMING PROOF ROLLS.
- THE ADJACENT BUSINESS OWNER SHALL BE NOTIFIED PRIOR TO ANY WORK BEING DONE ON THE EXISTING DRIVE ENTRANCE. CONTRACTOR TO COORDINATE WITH OWNER, ENGINEER, AND ADJACENT BUSINESS OWNER PRIOR TO ANY WORK BEING DONE.

PARKING ANALYSIS

RECYCLING FACILITY	
TOTAL EMPLOYEES	= 8 TOTAL
REQUIRED RATIO	= 1 SPCS/EMP.
OFFICE SPACE	= 512 SFT.
REQUIRED RATIO	= 1 SPC./250 SFT.
TOTAL REQUIRED SPACES	= 11 SPACES
STANDARD PARKING SPACES	= 23 SPACES
HANDICAP ACCESSIBLE SPACES	= 2 SPACES
TOTAL PROPOSED PARKING SPACES	= 25 SPACES



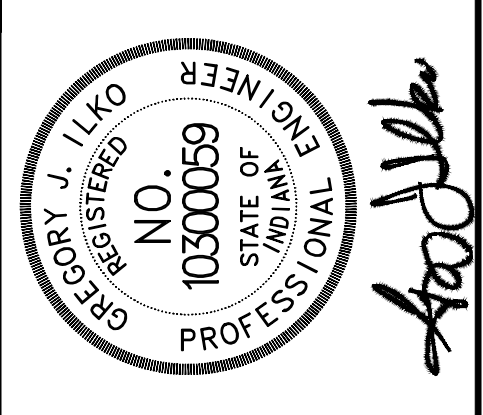
ABBREVIATIONS

FYS	FRONT YARD SETBACK
SYS	SIDE YARD SETBACK
RYS	REAR YARD SETBACK
DUE	DRAINAGE & UTILITY EASEMENT
DE	DRAINAGE EASEMENT
NAE	NON-ACCESS EASEMENT
AE	ACCESS EASEMENT
M.F.P.G.	MINIMUM FLOOD PROTECTION GRADE
M.L.A.G.	MINIMUM LOWEST ADJACENT GRADE
F.F.E.	FINISH FLOOR ELEVATION

NOTE: NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

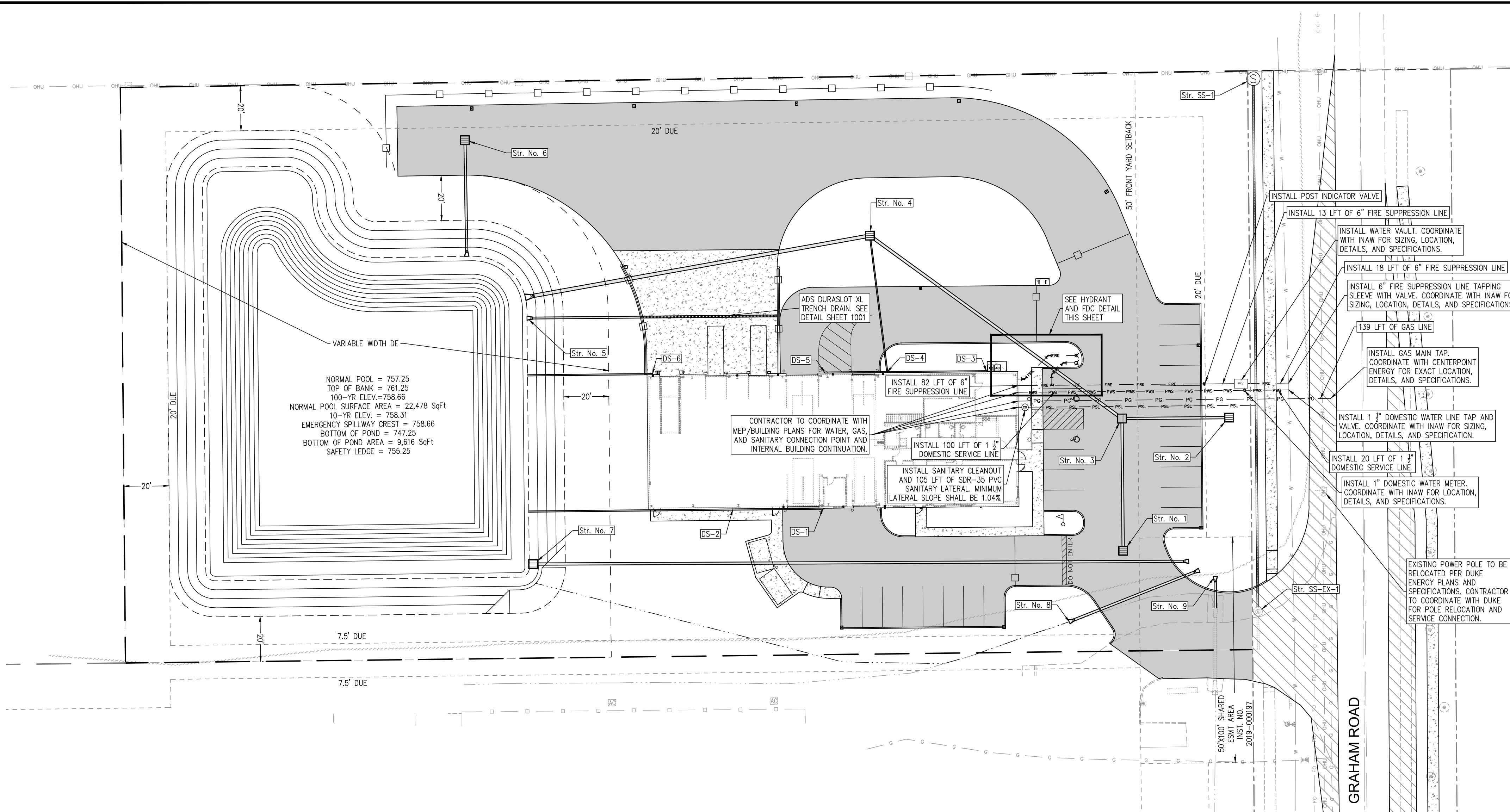
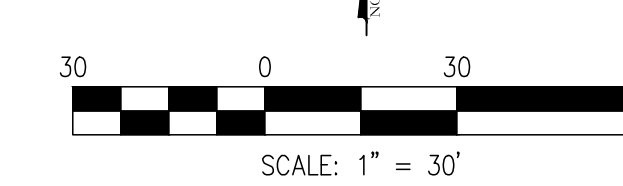


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BY								BTJ	BTJ
APPR.								BTJ	BTJ
DESIGNED								BTJ	BTJ
CHECKED								BTJ	BTJ
DRAWN								BTJ	BTJ
JOB NO.									
DATE								APRIL 11, 2024	

POWERPOLE	CONTOURS
POWERPOLE W/RISER	PROPERTY LINE
POWERPOLE W/LIGHT	SECTION LINE
GUY WIRE	RIGHT-OF-WAY
WATER VALVE	EASEMENT
FIRE HYDRANT	ADJOINER LINE
WATER METER	PAVEMENT LINE
GAS VALVE	FIELD LINE
SIGN	FENCE
MAILBOX	DITCH
TEMP. BENCHMARK	GAS LINE
MONUMENT FOUND	WATER LINE
	FIBER OPTIC LINE
	OVERHEAD UTILITY LINE
	SANITARY SEWER W/MANHOLE
	STORM SEWER W/ END SECTION



STR. DATA
STR. NO. 1 INSTALL TYPE "E" INLET WITH NEENAH CASTING R-3405-A OR APPROVED EQUAL AND ONE (1) CONCRETE END SECTION AND 59 LFT OF 12" RCP @ 0.25% RM=760.00 INV OUT (12"-N)=758.24
STR. NO. 2 INSTALL TYPE "E" INLET WITH NEENAH CASTING R-4215-C OR APPROVED EQUAL AND 48 LFT OF 12" RCP @ 0.25% RM=760.80 INV OUT (12"-W)=758.22
STR. NO. 3 INSTALL TYPE "E" INLET WITH NEENAH CASTING R-3405-A OR APPROVED EQUAL AND 138 LFT OF 15" RCP @ 0.35% RM=761.00 INV IN (12"-S)=758.10 INV IN (12"-E)=758.10 INV OUT (12"-S)=757.43 D.S. ELEV.=757.25

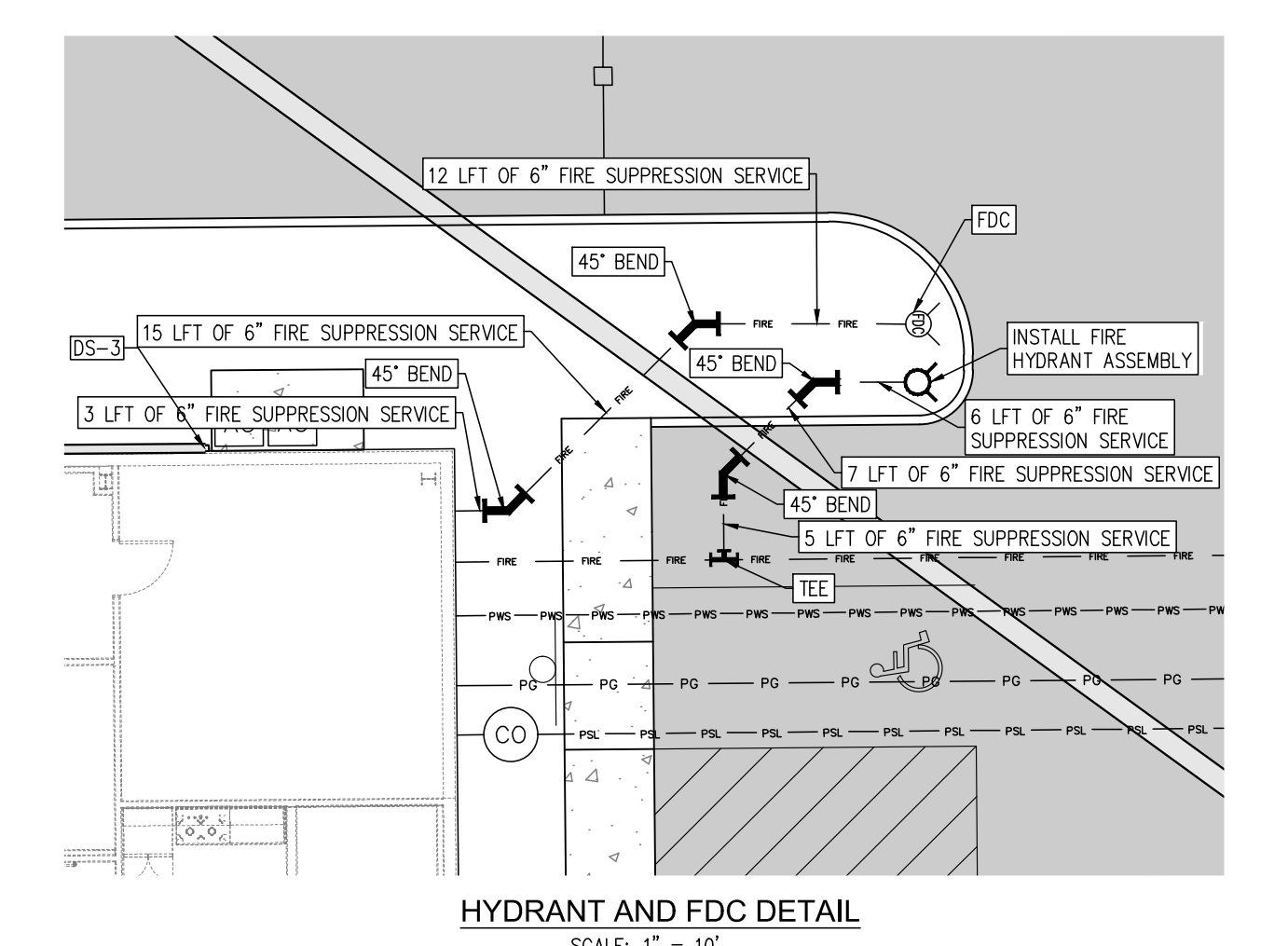
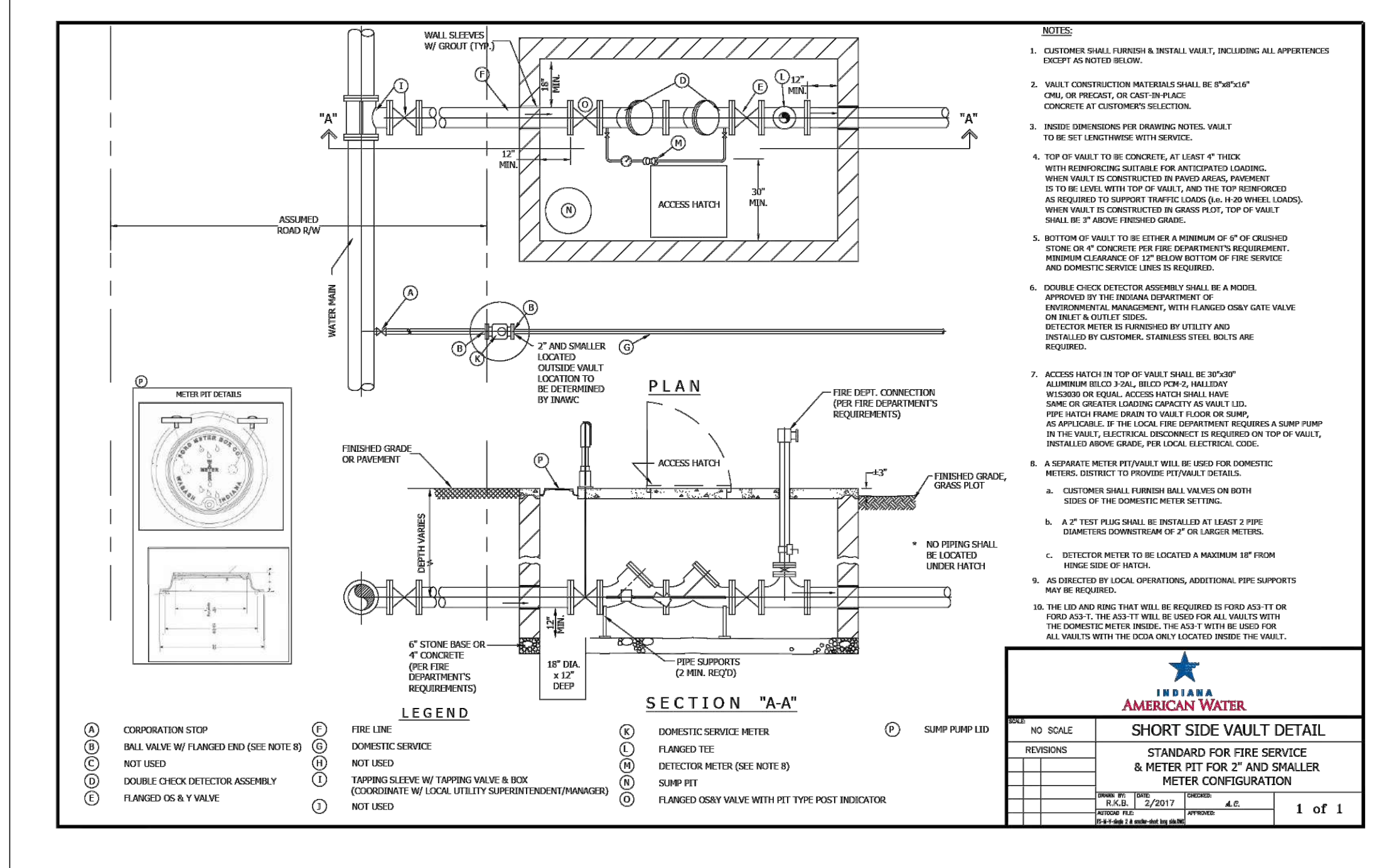
STR. DATA
STR. NO. 4 INSTALL TYPE "E" INLET WITH NEENAH CASTING R-4215-C OR APPROVED EQUAL AND ONE (1) CONCRETE END SECTION AND 155 LFT OF 18" RCP @ 0.25% RM=760.00 INV IN (15"-SE)=757.63 INV OUT (18"-W)=757.63
STR. NO. 5 60 LFT OF ADS DURASLOT XL TRENCH DRAIN PIPE 10" AND ONE (1) CONCRETE END SECTION TRENCH DRAIN U.S. ELEV.=758.05 D.S. ELEV.=757.90 51 LFT OF 10" HDPE U.S. ELEV.=757.90 D.S. ELEV.=757.25
STR. NO. 6 INSTALL TYPE "E" INLET WITH NEENAH CASTING R-3405-A OR APPROVED EQUAL AND ONE (1) CONCRETE END SECTION AND 52 LFT OF 12" RCP @ 0.35% RM=759.70 INV OUT (12"-S)=757.43 D.S. ELEV.=757.25

STR. DATA
STR. NO. 7 INSTALL TYPE "E" INLET WITH NEENAH CASTING R-4215-C OR APPROVED EQUAL AND ONE (1) CONCRETE END SECTION AND 291 LFT OF 12" RCP @ 0.25% RM=760.00 INV OUT (12"-S)=757.25 D.S. ELEV.=756.40
STR. NO. 8 INSTALL TWO (2) CONCRETE END SECTION AND 62 LFT OF 12" RCP @ 1.84% U.S. ELEV.=757.64 D.S. ELEV.=756.50
STR. NO. 9 INSTALL ONE (1) CONCRETE END SECTION AND EXTEND 14 LFT OF 12" RCP @ 0.64% U.S. ELEV.=756.40 D.S. ELEV.=756.31

STR. DATA
STR. NO. SS-1 INSTALL SANITARY SEWER MANHOLE TYPE "C" WITH NEENAH R-1712-B-SP CASTING OR APPROVED EQUAL AND 236 LFT OF 10" PVC @ 0.35% RM=761.95 INV OUT (10"-S)=747.02
STR. NO. SS-EX-1 EXISTING SANITARY SEWER MANHOLE. MECHANICAL CORE AND DENOTE FLEXIBLE BOOT CONNECTION FOR NEW INCOMING PIPE. ADJUST CASTING TO GRADE. RM=758.82 PROP. INV OUT (10"-N)=746.21 EX. INV OUT (10"-S)=745.91

STR. DATA DOWNSPOUT	STR. DATA DOWNSPOUT
DS-1 SEE DETAIL-SHEET 1000 40 LFT OF 6" PVC @ 0.50% U.S. EL.=757.90 D.S. EL.=757.70	DS-4 SEE DETAIL-SHEET 1000 61 LFT OF 6" PVC @ 0.50% U.S. EL.=757.24 D.S. EL.=757.63
DS-2 SEE DETAIL-SHEET 1000 90 LFT OF 6" PVC @ 0.50% U.S. EL.=757.70 D.S. EL.=757.25	DS-5 SEE DETAIL-SHEET 1000 28 LFT OF 6" PVC @ 0.50% U.S. EL.=758.08 D.S. EL.=757.94
DS-3 SEE DETAIL-SHEET 1000 44 LFT OF 6" PVC @ 0.50% U.S. EL.=758.16 D.S. EL.=757.94	DS-6 SEE DETAIL-SHEET 1000 55 LFT OF 6" PVC @ 0.50% U.S. EL.=757.53 D.S. EL.=757.25

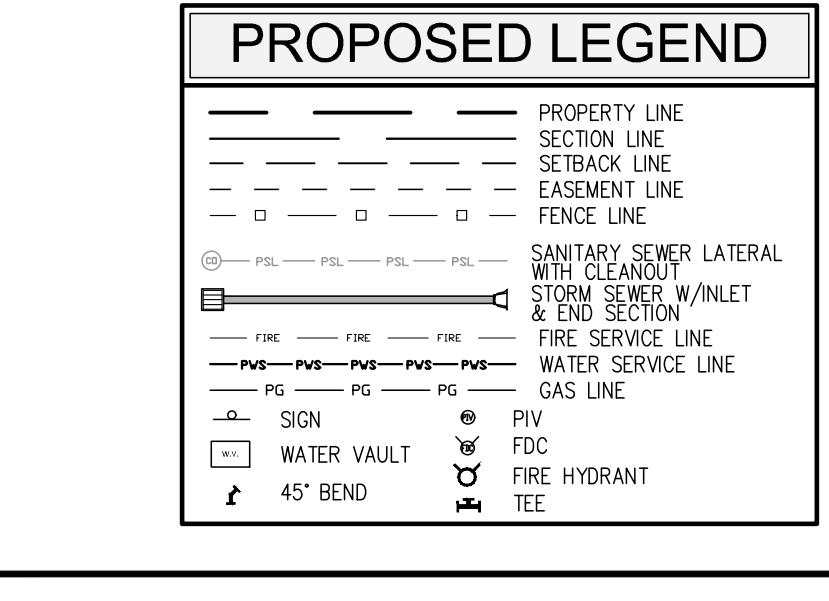
- ### UTILITIES NOTES
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND PROVIDING ALL NECESSARY FLAGMAN, BARRELS, SIGNAGE, ETC. DURING CONSTRUCTION. ALL APPLICABLE M.U.T.C.D. STANDARDS SHALL GOVERN THIS WORK.
 - CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES AND CABLE, ELECTRIC, AND TELEPHONE CONNECTION SERVICE INSTALLATIONS. ALL LIGHTING FIXTURES AND POLES SHALL BE PER OWNER AND PHOTOGRAPHIC DETAILS, SHEET 002 OF THESE PLANS.
 - CONTRACTOR TO INSTALL 1" SCH. 40 PVC AT 3" TO 4" DEPTH AS NEEDED FOR ALL SITE LIGHTING IN COORDINATION WITH ELECTRICAL SITE PLANS. INSTALL 2" SCH. 40 PVC AT ALL PAVEMENT CROSSINGS. CONTRACTOR SHALL CONFIRM ELECTRICAL TRANSFORMER LOCATION, SERVICE CONNECTION REQUIREMENTS, DIMENSIONS, AND SPECIFICATIONS, WITH DUKE ENERGY.
 - ALL LIGHT FIXTURES SHALL USE PULSE START BALLASTS AND TWO PHOTOCELL CONTROL RELAYS.
 - EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.
 - CONTRACTOR SHALL CONFIRM DEPTH AND LOCATION OF SANITARY SEWER MAIN STUB REPORT TO ENGINEERING PRIOR TO INSTALLING STR. NO. SS-1.
 - ALL SANITARY SEWER MAIN SHALL BE SDR-26 PVC PIPE.
 - DURING CONSTRUCTION, CONTRACTOR SHALL INSTALL TWO (2) GREEN METAL SIGN POSTS AT EACH SANITARY MANHOLE, AND ONE (1) GREEN METAL SIGN POST AT EACH LATERAL STUB. CONTRACTOR SHALL PROTECT POSTS DURING CONSTRUCTION ACTIVITIES.
 - ALL STORM SEWER CASTINGS SHALL HAVE LEGGED OR RAISED LETTERS AT LEAST ONE INCH HIGH WITH THE PHRASE "DUMP NO WASTE - DRAINS TO WATERWAY" AND INCLUDE AN ENVIRONMENTAL LOGO (FISH, PHRASE AND LOGO SHALL BE A PART OF ALL CASTINGS).
 - ALL FIELD TILES DISTURBED DURING CONSTRUCTION MUST BE REPAIRED/CONNECTED TO NEW DRAINAGE FACILITIES.
 - GATE VALVES SHALL BE INSTALLED ON ALL SERVICE LINE TAPS. COORDINATE WITH THE INAW UTILITY FOR ALL STANDARDS AND SPECIFICATIONS.
 - COORDINATE INSTALLATION OF FIRE HYDRANTS WITH INDIANA AMERICAN WATER AND THE CITY OF FRANKLIN FIRE DEPARTMENT. TYPE, MATERIAL, AND MANUFACTURER OF FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH FRANKLIN FIRE DEPARTMENT REQUIREMENTS. ALL PUBLIC FIRE HYDRANTS ARE TO BE YELLOW AND ALL PRIVATE FIRE HYDRANTS ARE TO BE RED WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW, AS FOLLOWS: 1500 gpm=BLUE, 1000-1499 gpm=GREEN, AND 500-999 gpm=ORANGE.
 - ALL HYDRANTS SHALL HAVE A STORZ CONNECTION.
 - ALL UTILITY CROSSINGS WITH STORM SEWER SHALL BE DONE WITH A MINIMUM 18" VERTICAL SEPARATION.



UTILITY CONTACTS

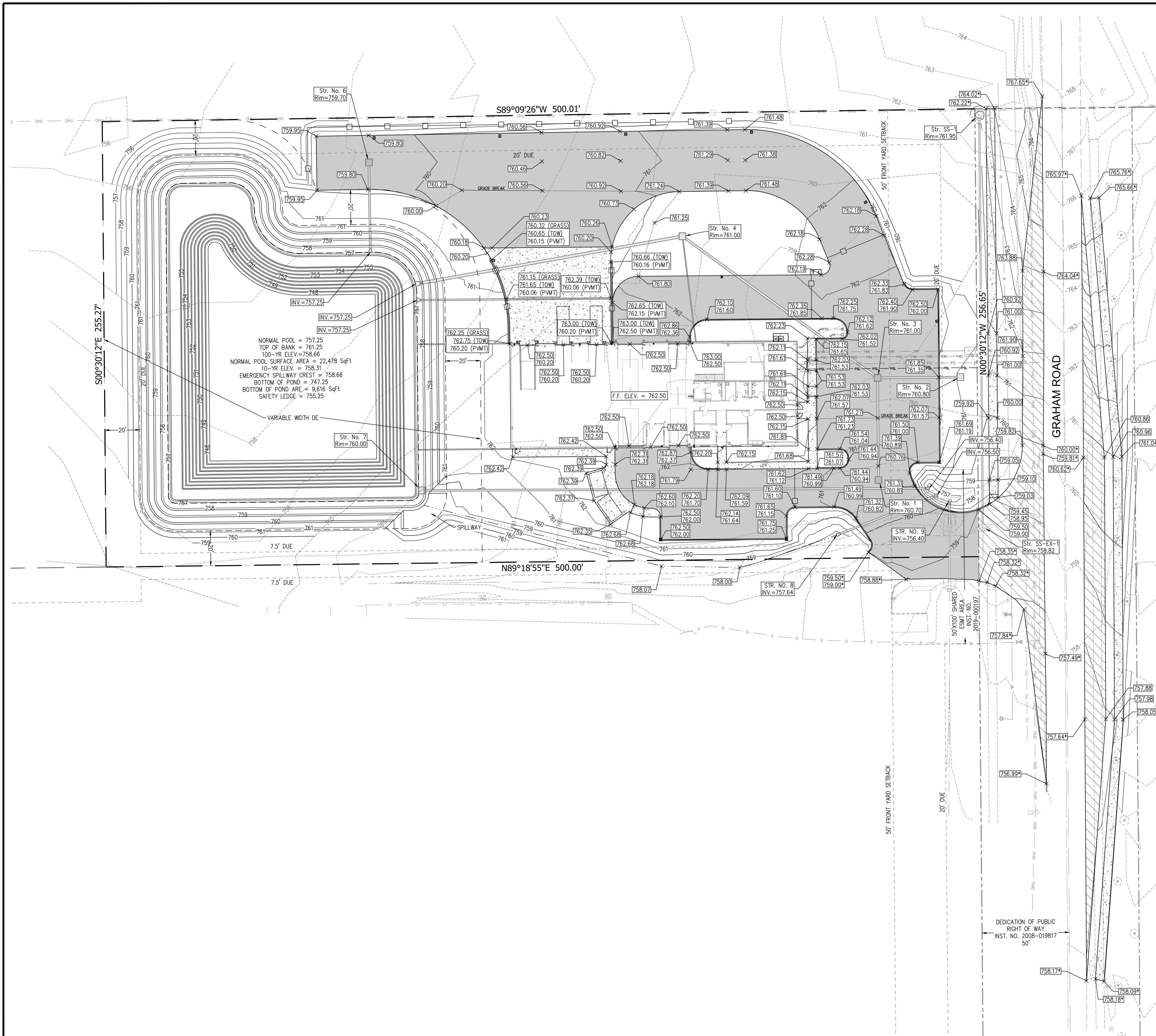
Note: Listed below are the Indiana Underground Pipe Protection Services Contacts. Others not listed may exist. The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantee that the underground utilities complete all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from information available. The surveyor has not been properly located the underground utilities.

UTILITY	COMPANY	CONTACT	PHONE	EMAIL
COMMUNICATIONS	MC	DEAN BOYERS	469-886-4238	investigations@verizon.com
FIBER OPTIC	BRIGHTSPEED	MELISSA TEAGUE	765-656-4663	mteague@brightspeed.com
FIBER OPTIC	METRO FIBERNET	MARK DEKARD	812-253-2196	mrdkard@metronetinc.com
ELECTRIC	DUKE ENERGY	JESSICA TURNER	812-462-2007	jessica.turner@duke-energy.com
SANITARY	CITY OF FRANKLIN DPW	EVAN HART	317-412-8450	ehart@franklin.in.gov
WATER	INDIANA AMERICAN WATER COMPANY	TRACY WHITE	317-885-2426	tracy.white@iamwater.com
GAS	CENTERPOINT ENERGY	JON EASTHAM	765-287-2119	publicproject@centerpointenergy.com
FIRE DEPARTMENT	CITY OF FRANKLIN	BRYNE PURSIFULL	317-736-3650	bpursifull@franklin.in.gov



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NOTE:
 NO EARTHWORK DISTURBING ACTIVITY
 MAY COMMENCE UNTIL A STORM WATER
 MANAGEMENT PERMIT IS OBTAINED.

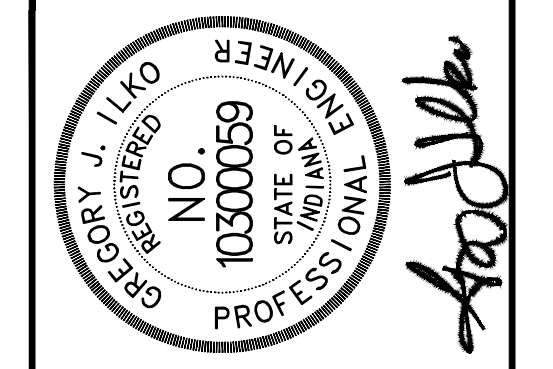
GRADING LEGEND	
	PROPOSED ELEVATIONS
	EXISTING ELEVATIONS (TO BE FIELD VERIFIED)
	PROPOSED FINISH FLOOR ELEVATION
	PROPOSED DRAINAGE SWALE
	EXISTING CONTOURS
	PROPOSED CONTOURS
	GRADE BREAK
	CURB HEIGHT TO TAPER FROM 0.5' TO 0.0' IN 6' LFT.

- GRADING NOTES**
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS IN FINAL GRADING OF SITE. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT TO DETERMINE PROPER FOUNDATION EXPOSURE. IN NO INSTANCE SHALL DRAINAGE TOWARD THE BUILDING FOUNDATION BE ALLOWED.
 - CONTRACTOR SHALL NOT ALLOW DRAINAGE FROM PROJECT SITE TO DISCHARGE ONTO ADJACENT PROPERTIES IN FINAL GRADING OF SITE.

BENCHMARK INFORMATION	
ORIGINATING BENCHMARK	
DESIGNATION - X 13	
PD - KAD010	
STATE/COUNTY - IN/MORGAN	
USGS QUAD - MOOREVILLE EAST (1980)	
VERT ORDER - FIRST CLASS II	
DESCRIBED BY COAST AND GEODETIC SURVEY 1946	
1.2 MI N FROM WAVERLY, IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY, 125 YARDS NORTH OF THE MORGAN-JOHNSON COUNTY LINE, 26 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST RIGHT-OF-WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY, A STANDARD DISK, STAMPED 686.370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 7 INCHES ABOVE GROUND.	
RECOVERY NOTE BY IN DEPT OF NAT RES 1985	
NEW DESC- AT THE INTERSECTION OF NEW STATE ROAD 144 AND OLD STATE ROAD 37, IN THE SOUTHWEST QUARTER OF THE INTERSECTION, WITNESS POST IS GONE RIGHT-OF-WAY FENCE IS GONE, ALL OTHER INFORMATION APPEARS TO BE CORRECT.	
ELEV. = 685.94 (NAVD 88)	
TRM #400	
CUT "BOX" ATOP SW MOST CORN OF CONC HEADWALL @ SE QUAD OF 'LINVILLE WAY' & 'GRAHAM RD'	
ELEV. = 754.94	

GRADING PLAN
JOHNSON COUNTY RECYCLE CENTER

JOB NO.	DATE	DESIGNED	APPR.	CHECKED	BTV	CJ
	APRIL 11, 2024					



NO.	DATE	REVISIONS	BY	APPR.
9				
8				
7				
6				
5				
4				
3				
2	05.21.24	REVISIONS PER CITY OF FRANKLIN REVIEW COMMENTS	BTV	CJ
1	05.09.24	REVISIONS PER JOB OUTSIDE REVIEW COMMENTS	BTV	CJ



NO.	DATE	REVISIONS	BY	APPR.
1	05.09.24	REVISIONS PER JOB OUTSIDE REVIEW COMMENTS	BTW	GJ
2	05.21.24	REVISIONS PER CITY OF FRANKLIN REVIEW COMMENTS	GJ	GJ
3				
4				
5				
6				
7				
8				
9				

BENCHMARK INFORMATION

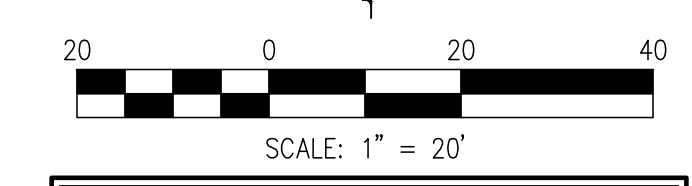
ORIGINATING BENCHMARK
 DESIGNATION - X 13
 PID - K40010
 STATE/COUNTY - IN/MORGAN
 USGS QUAD - MOORESVILLE EAST (1980)
 VERT ORDER - FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1946
 1.2 MI N FROM WAVERLY, IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY, 125 YARDS NORTH OF THE MORGAN-JOHNSON COUNTY LINE, 26 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST RIGHT-OF-WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED 686.370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 7 INCHES ABOVE GROUND.

RECOVERY NOTE BY IN DEPT OF NAT RES 1985
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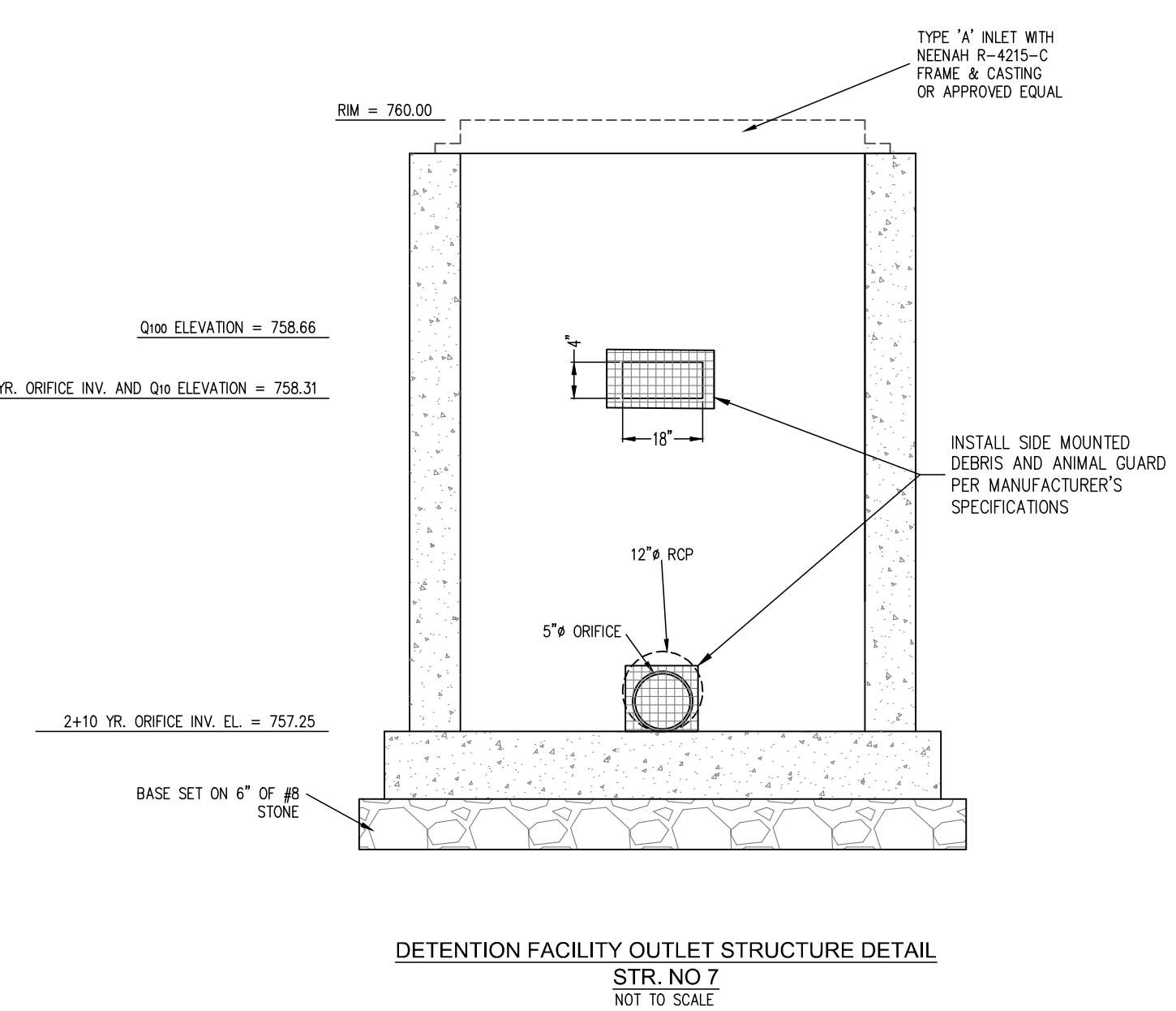
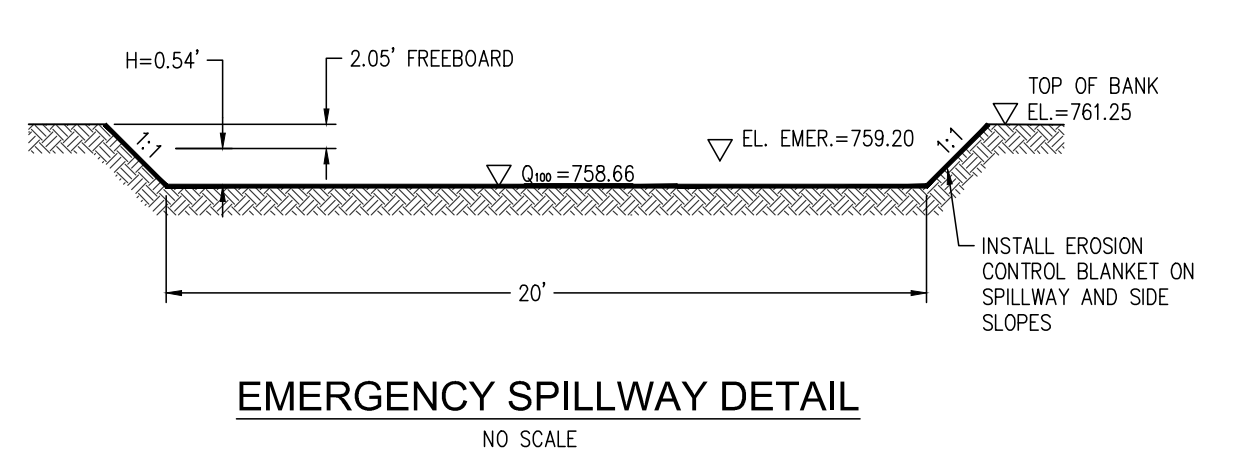
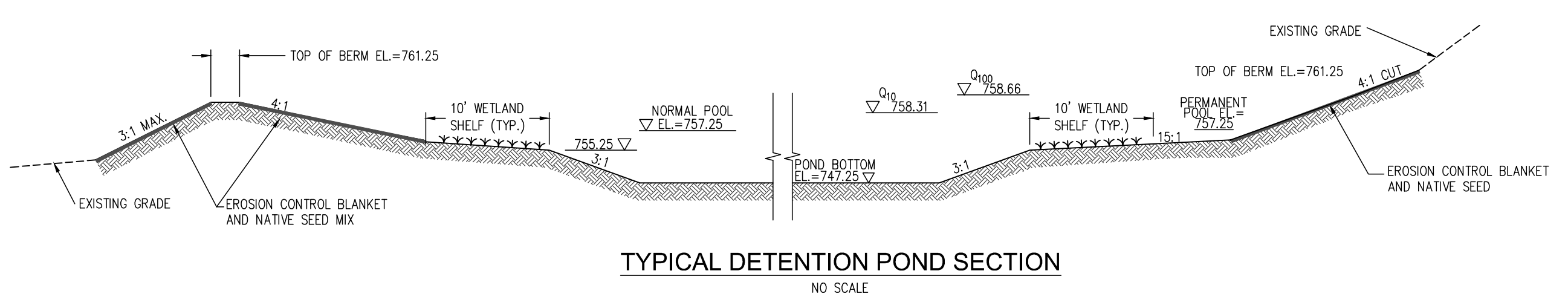
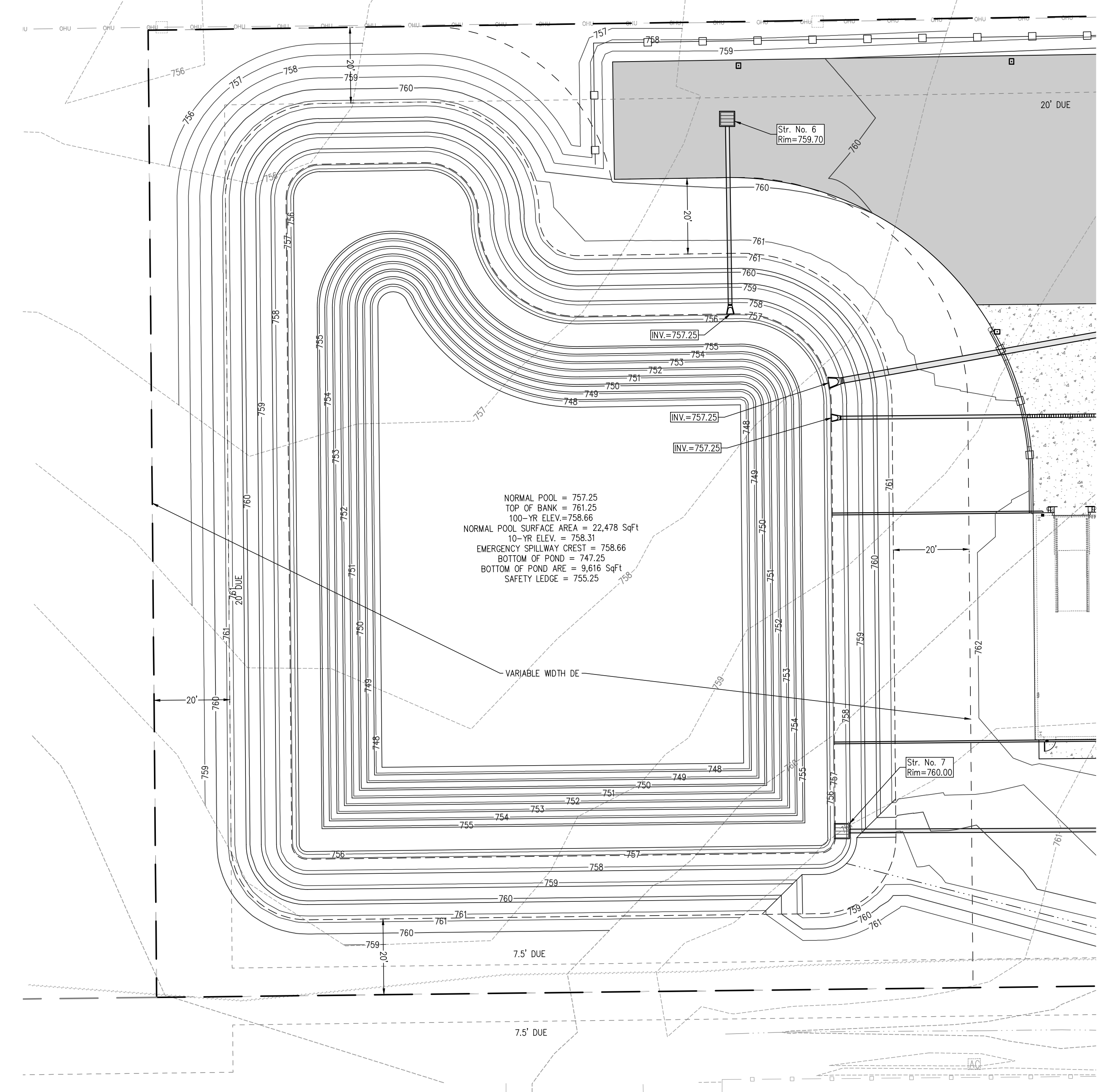
ELEV. = 685.94 (NAVD 88)

ITM #400
 CUT 'BOX' ATOP SW MOST CORNER OF CONC HEADWALL @ SE QUAD OF 'LINVILLE WAY' & 'GRAHAM RD'
 ELEV. = 754.94



PROPOSED LEGEND

---	PROPERTY LINE
---	SECTION LINE
---	SETBACK LINE
---	EASEMENT LINE
---	FENCE LINE
---	SANITARY SEWER LATERAL WITH CLEANOUT
---	STORM SEWER W/INLET & END SECTION
---	FIRE SERVICE LINE
---	WATER SERVICE LINE
---	GAS LINE
---	SIGN
---	PIV
---	FDC
---	FIRE HYDRANT
---	TEE



- ### DRAINAGE NOTES
- NO STRUCTURES, OR IMPROVEMENTS SHALL BE PERMITTED WITHIN THE LEGAL DRAIN EASEMENT. ALL UTILITIES, BUILDINGS, STRUCTURES, PLANTINGS, CROPS, TREES, SHRUBS, AND WOODY VEGETATION GROWN WITHIN THE EASEMENT, OR ALONG THE LEGAL DRAIN ARE AT THE RISK OF THE OWNER AND SUBJECT TO REMOVAL WITH MINIMAL NOTICE, WITHOUT RESTITUTION, AND SUBJECT TO SPECIAL ASSESSMENT.
 - THIS SITE PLOTS BY SCALE AS BEING WITHIN A REGULATED WATERSHED. ANY AND ALL SITE IMPROVEMENTS WITHIN A REGULATED WATERSHED ARE SUBJECT TO REVIEW BY THE JOHNSON COUNTY DRAINAGE BOARD. ALL TRACTS WITHIN A REGULATED DRAIN WATERSHED ARE SUBJECT TO ASSESSMENTS FOR MAINTENANCE (IC 36-9-27-44), AND WHEN PRACTICABLE, RECONSTRUCTION (IC 36-9-27-51).
 - NO CONSTRUCTION, OR IMPROVEMENTS SHALL IMPAIR OR NEGATIVELY IMPACT ANY PRIVATE DRAIN TILE (IC 36-9-27-2) KNOWN OR UNKNOWN. NO CONSTRUCTION, OR IMPROVEMENTS SHALL IMPAIR, IMPEDE, OR NEGATIVELY IMPACT, A NATURAL SURFACE WATERCOURSE (IC 36-9-27-4-3), WHEN ENCOUNTERED SAID TILE OR WATERCOURSE WILL BE DESIGNED, AND RE-ROUTED SO NOT TO IMPAIR, IMPAIR, OR NEGATIVELY IMPACT SURFACE OR SUBSURFACE WATER FLOW.
 - PRIVATE TILES, AND MUTUAL DRAIN CONNECTIONS TO REGULATED DRAIN (IC 36-27-9-17). ALL CONNECTIONS, OR OUT-LETS INTO A REGULATED DRAIN ARE SUBJECT TO APPROVAL BY THE COUNTY SURVEYOR (S. 107), OR THE JOHNSON COUNTY DRAINAGE BOARD (S. 111). APPLICATIONS ARE AVAILABLE IN THE COUNTY SURVEYOR'S OFFICE AND SHOULD INCLUDE ALL MAPS, PLANS, SPECIFICATIONS, BONDING, EASEMENT VERBAGE, APPLICATION FEES AND OWNER'S STATEMENT OF WATER QUALITY (IC 36-27-9-23), PRIOR TO APPROVAL.

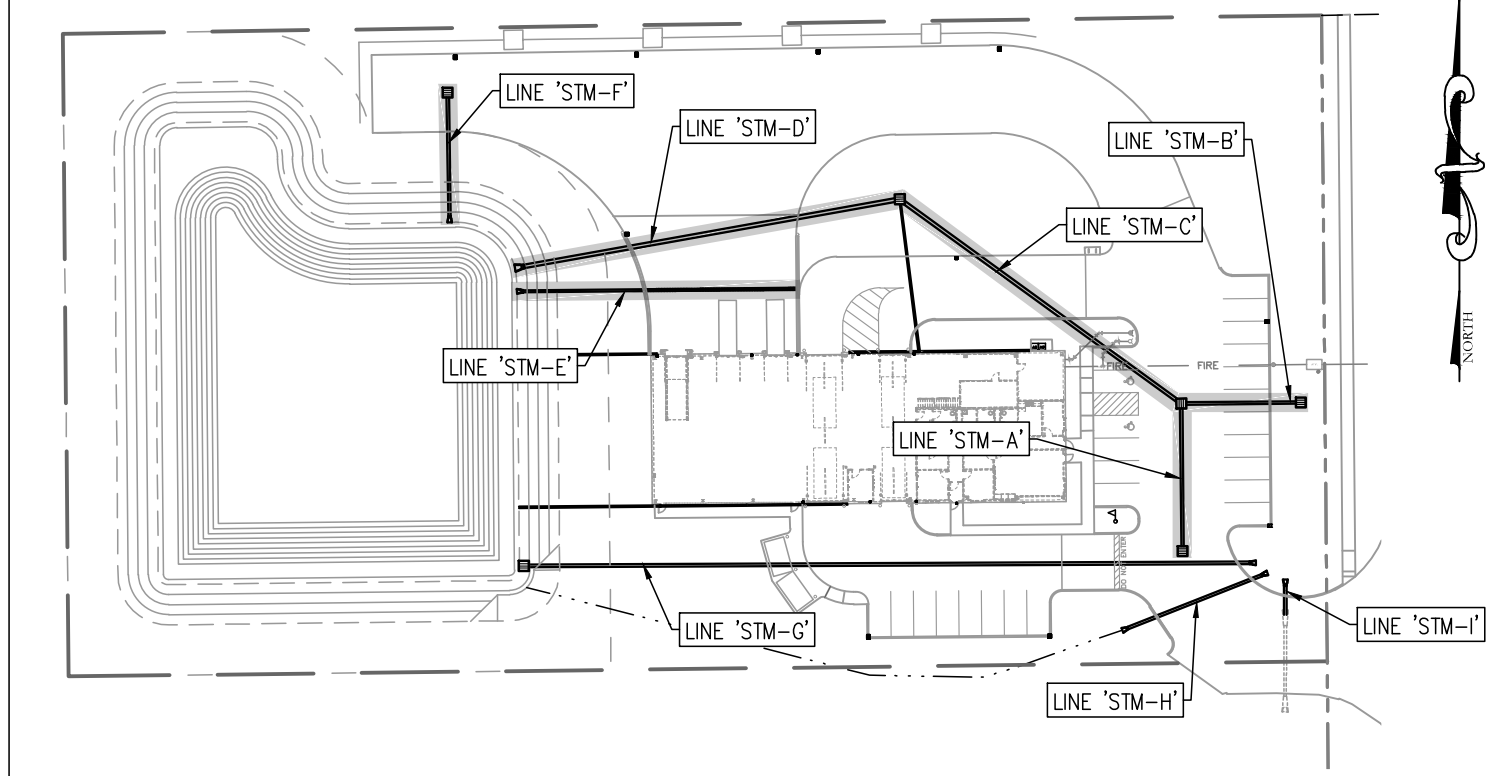
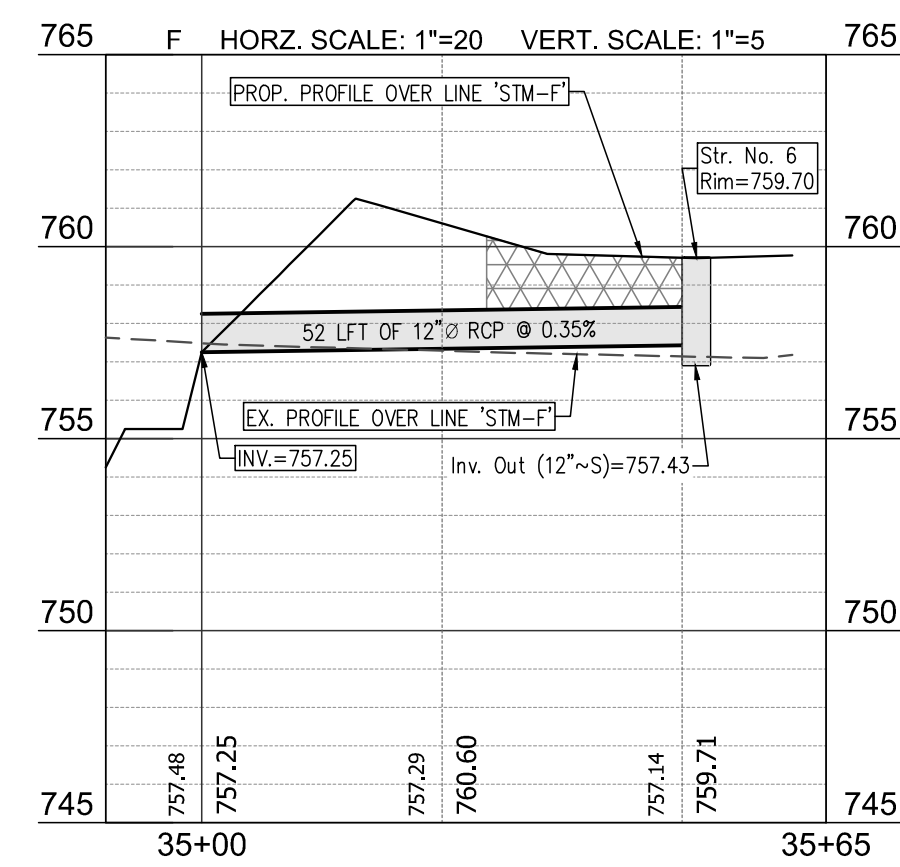
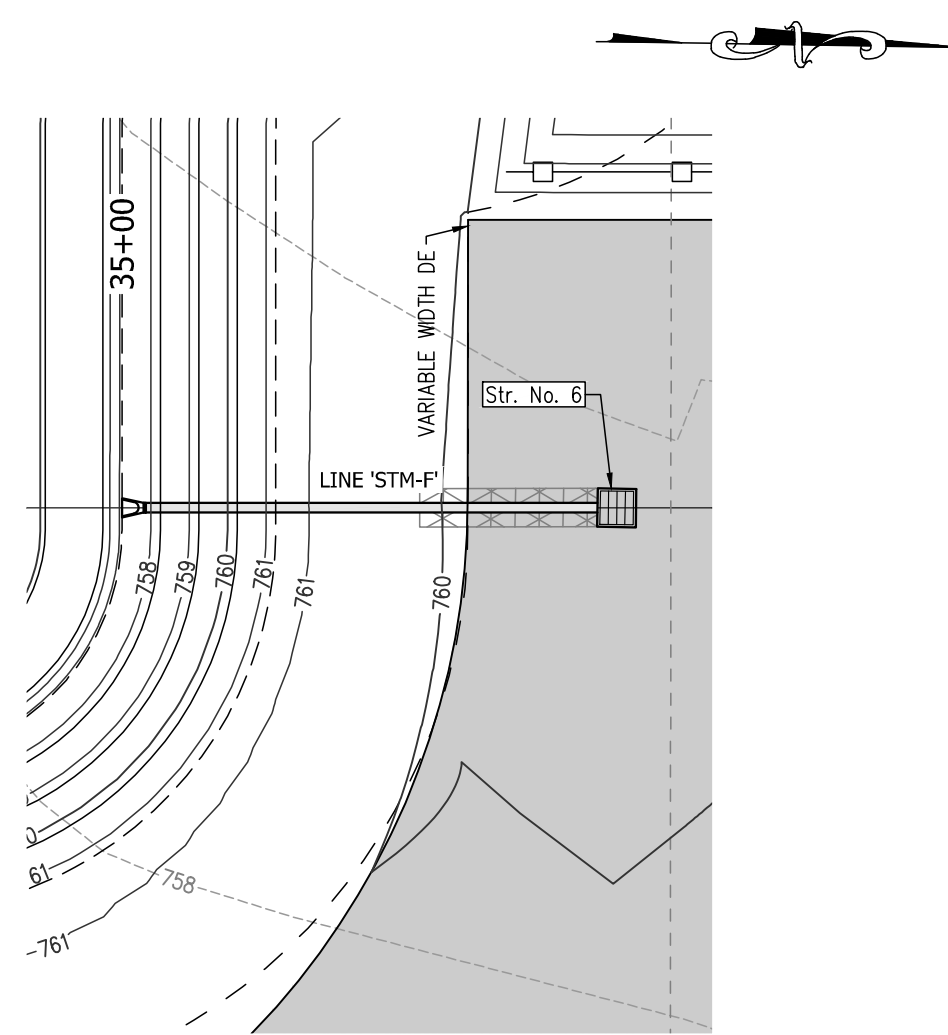
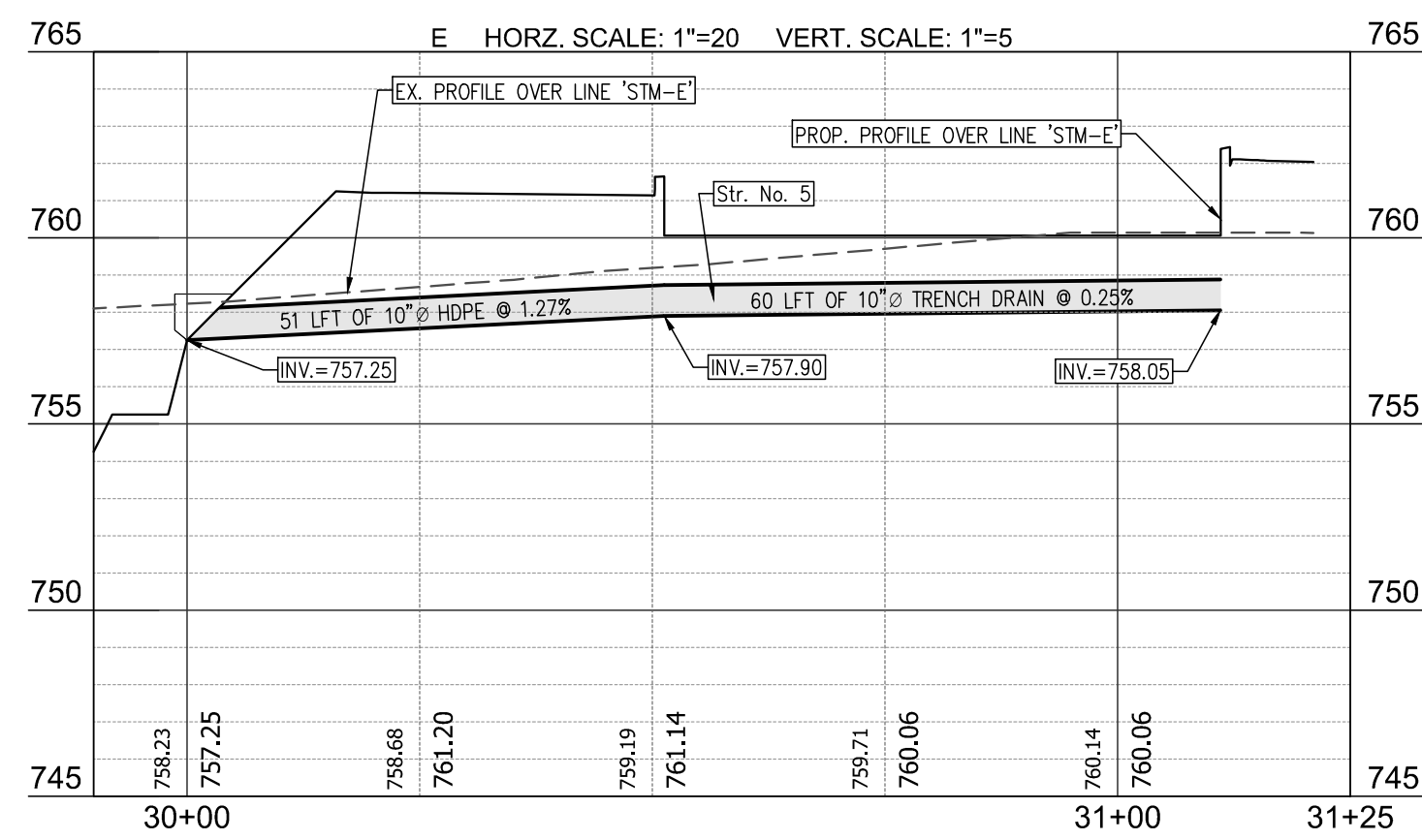
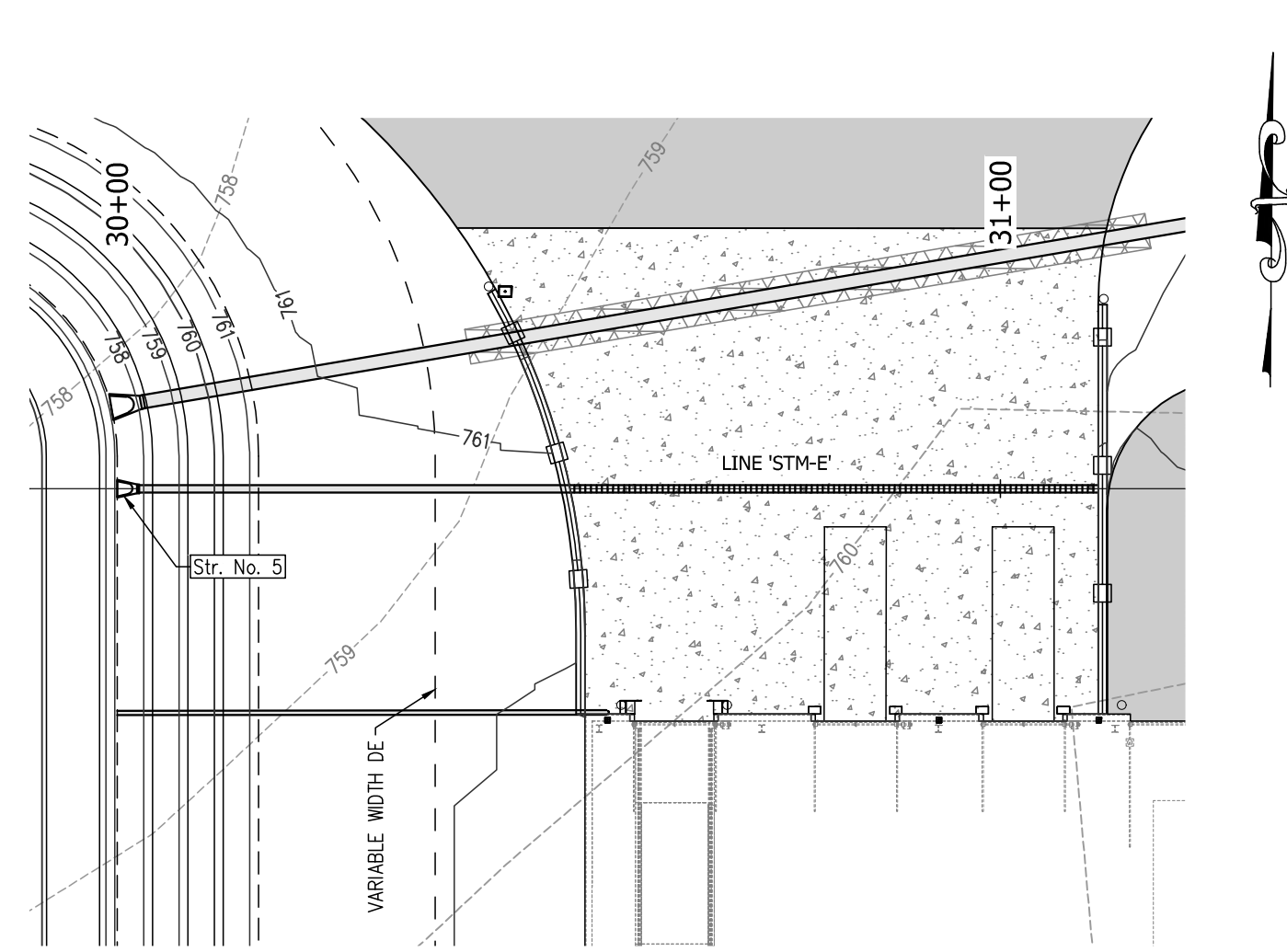
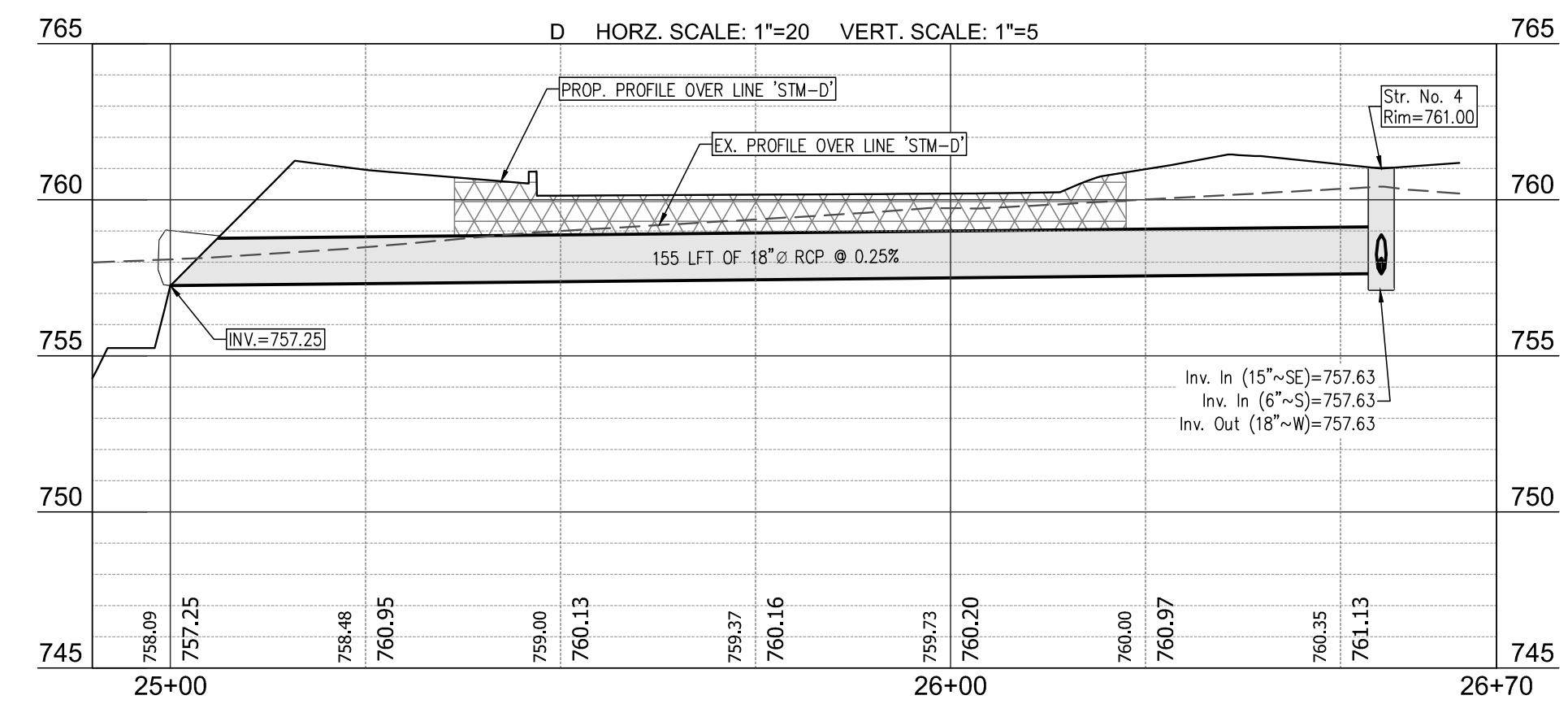
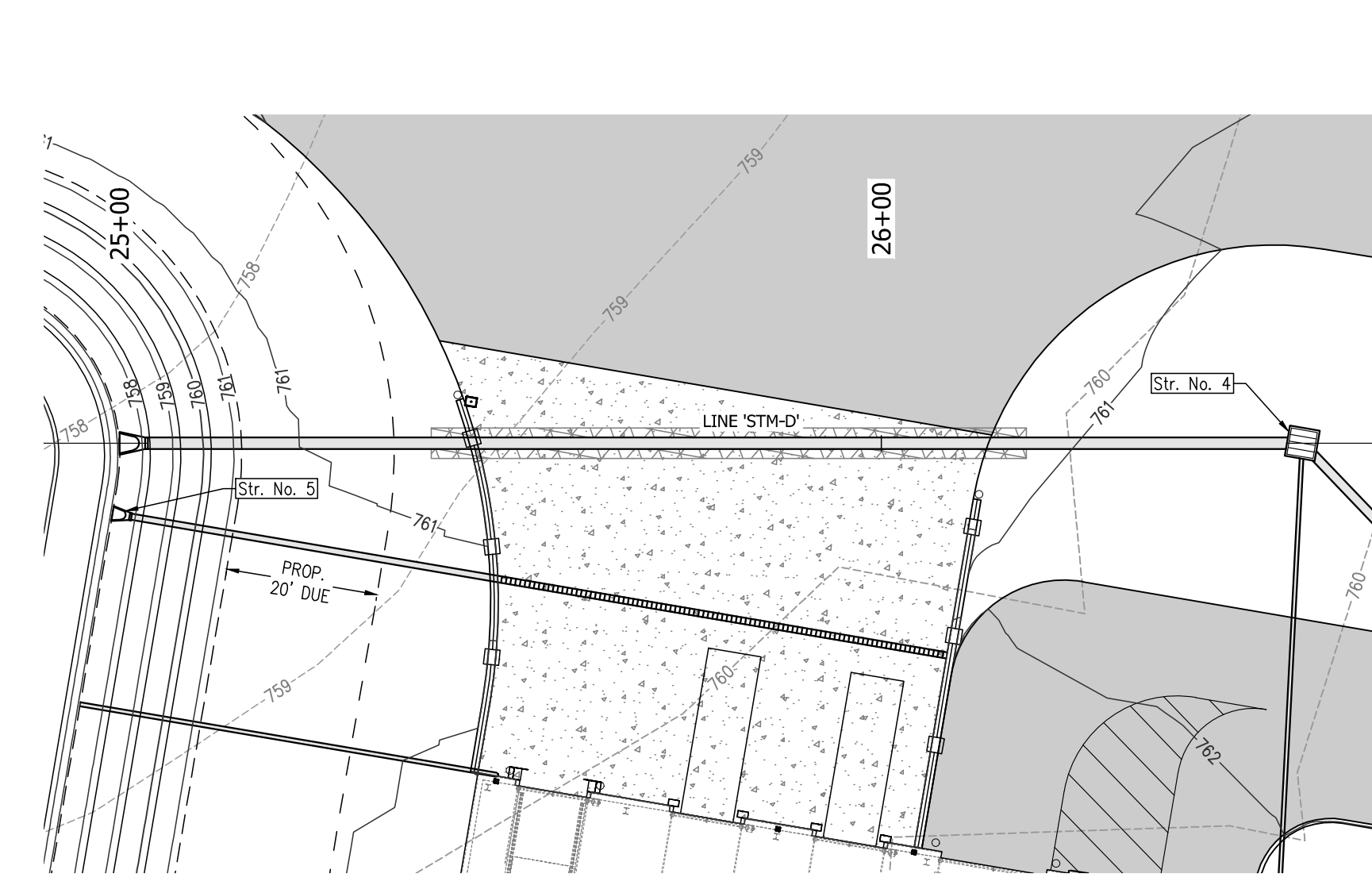
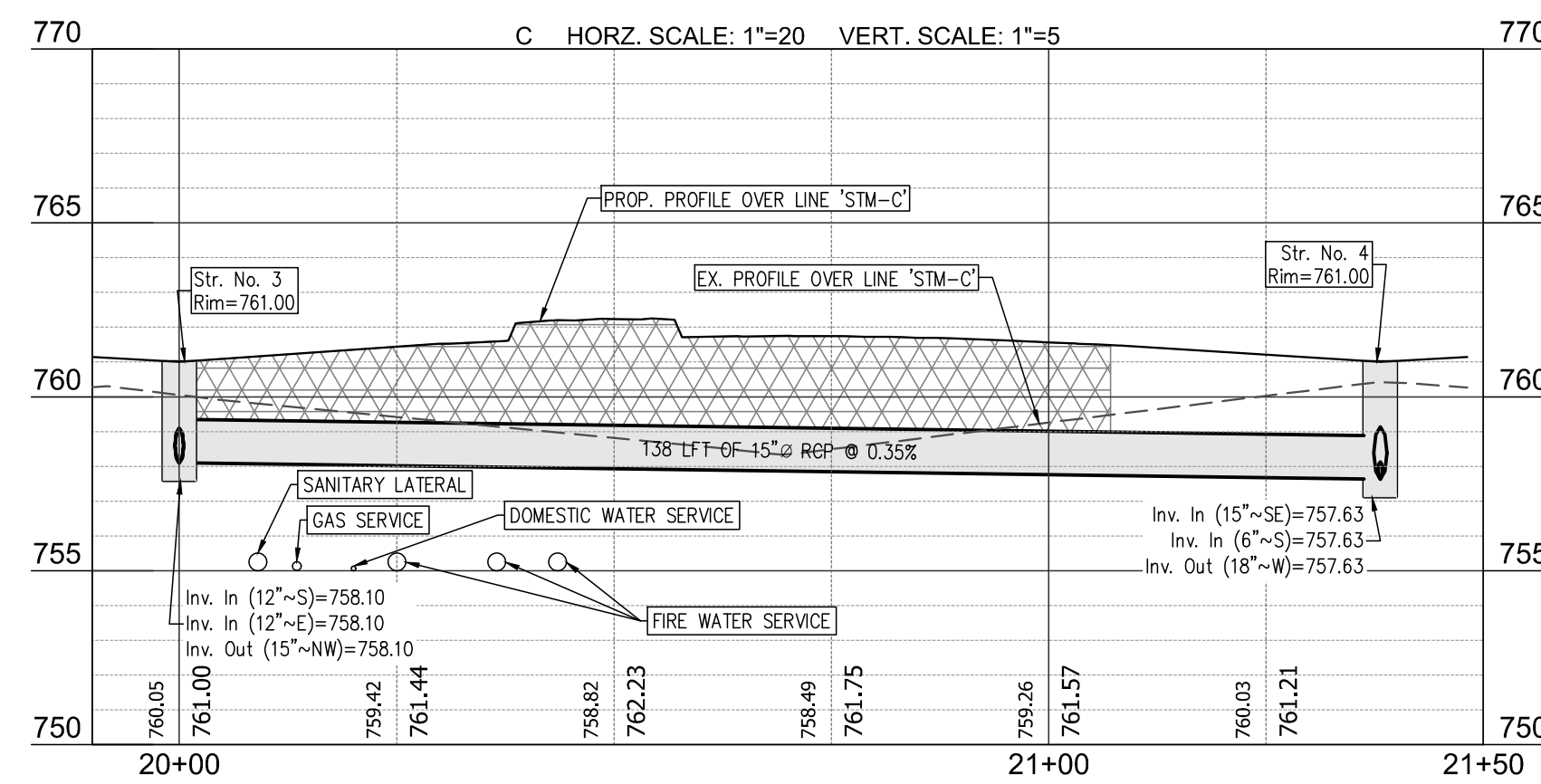
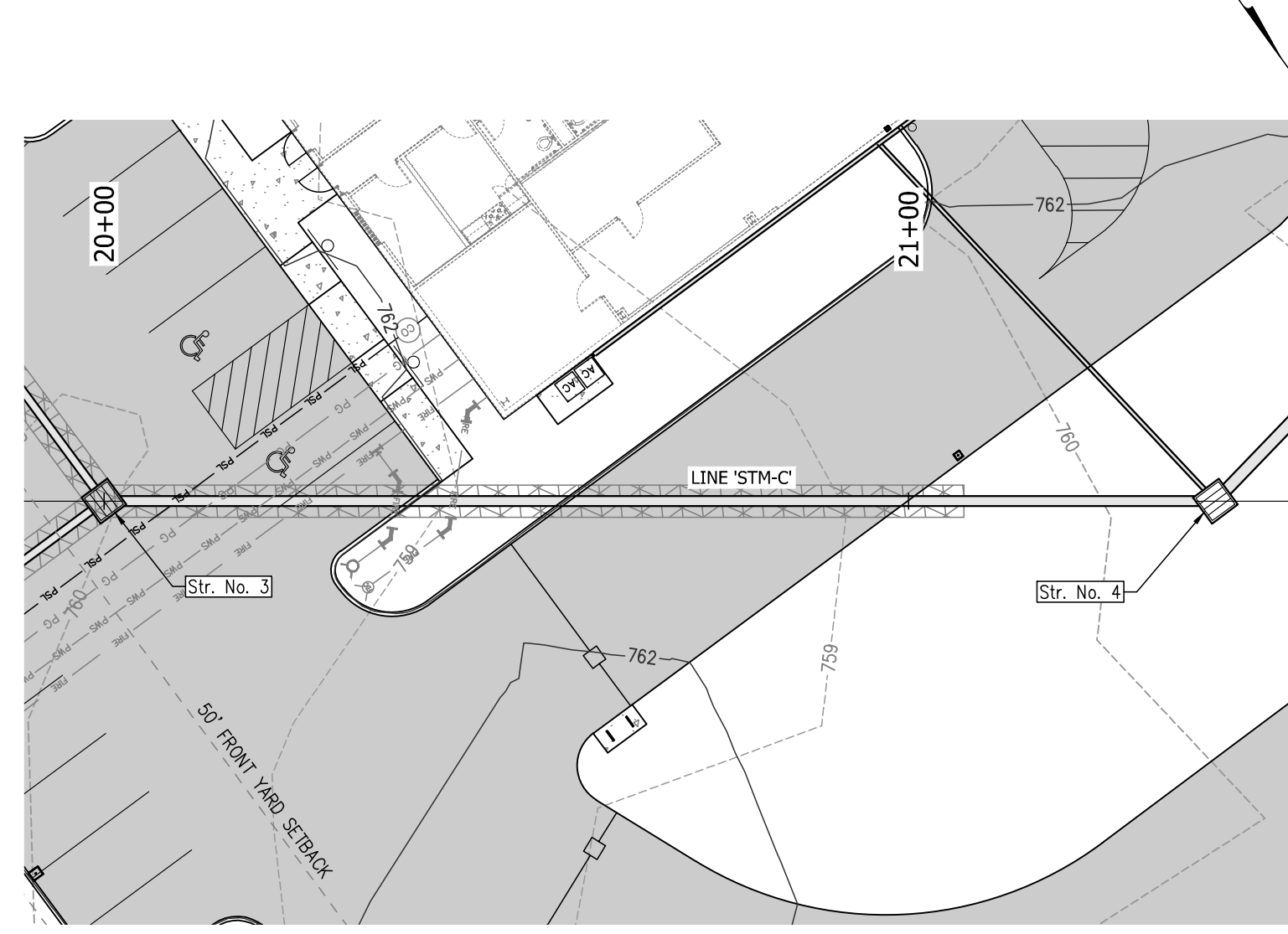
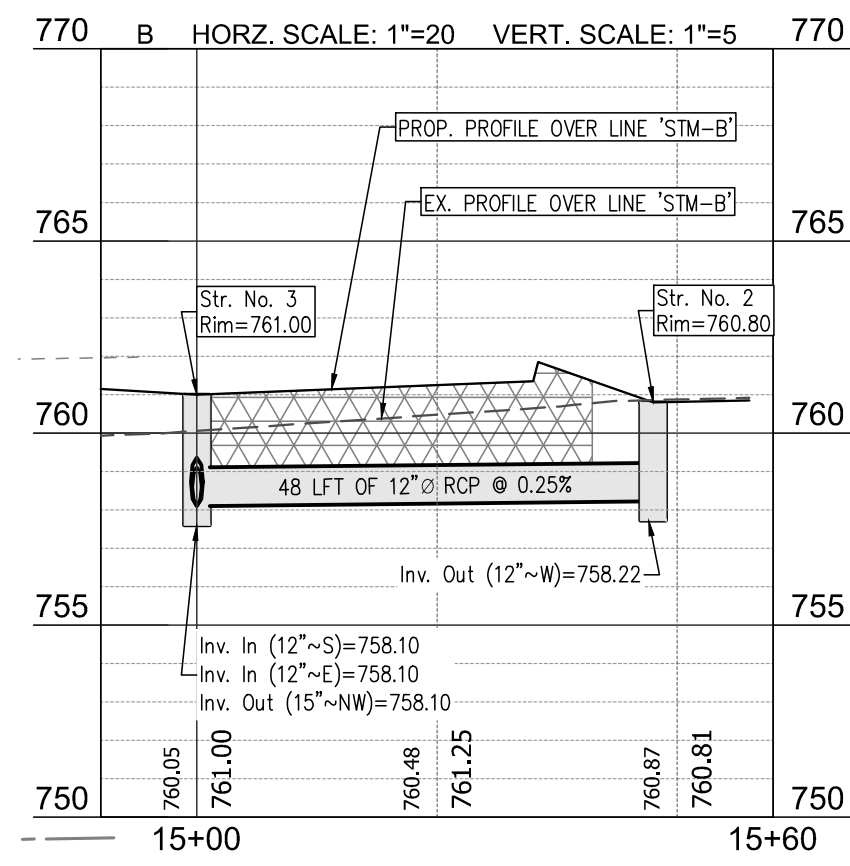
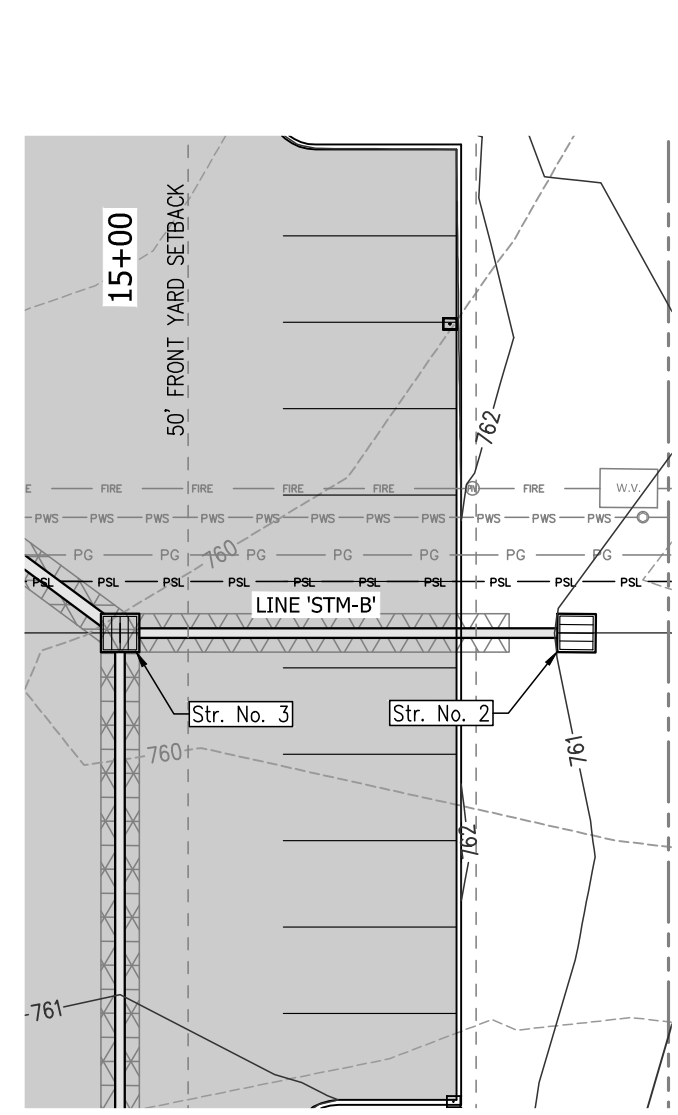
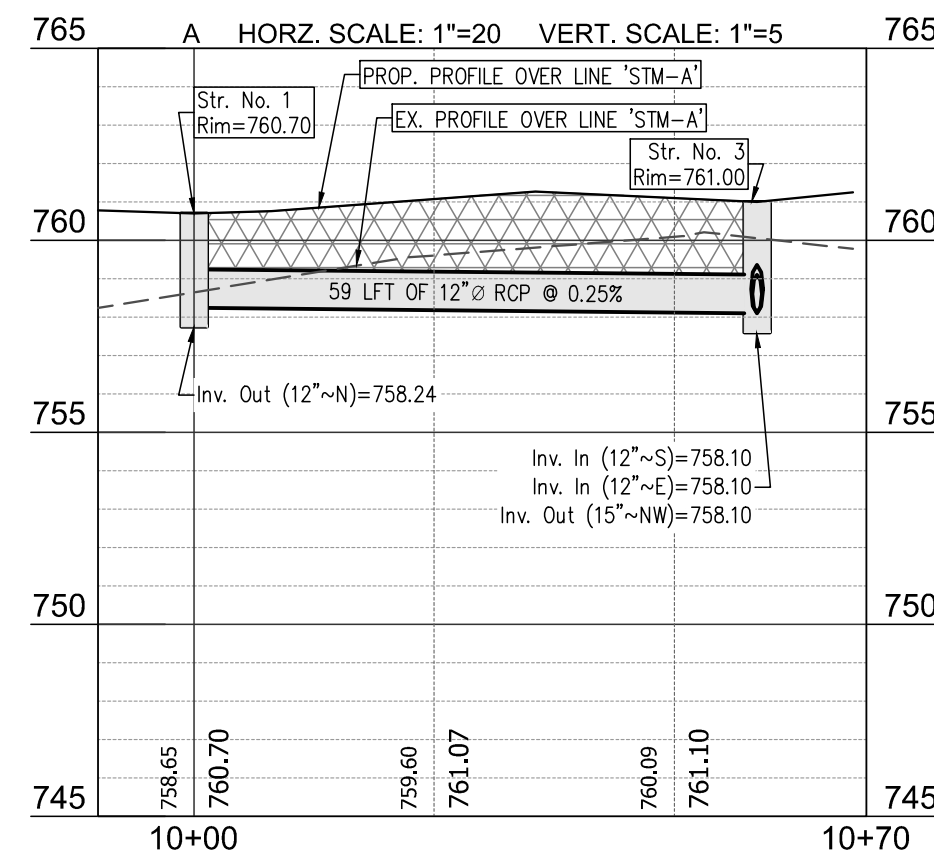
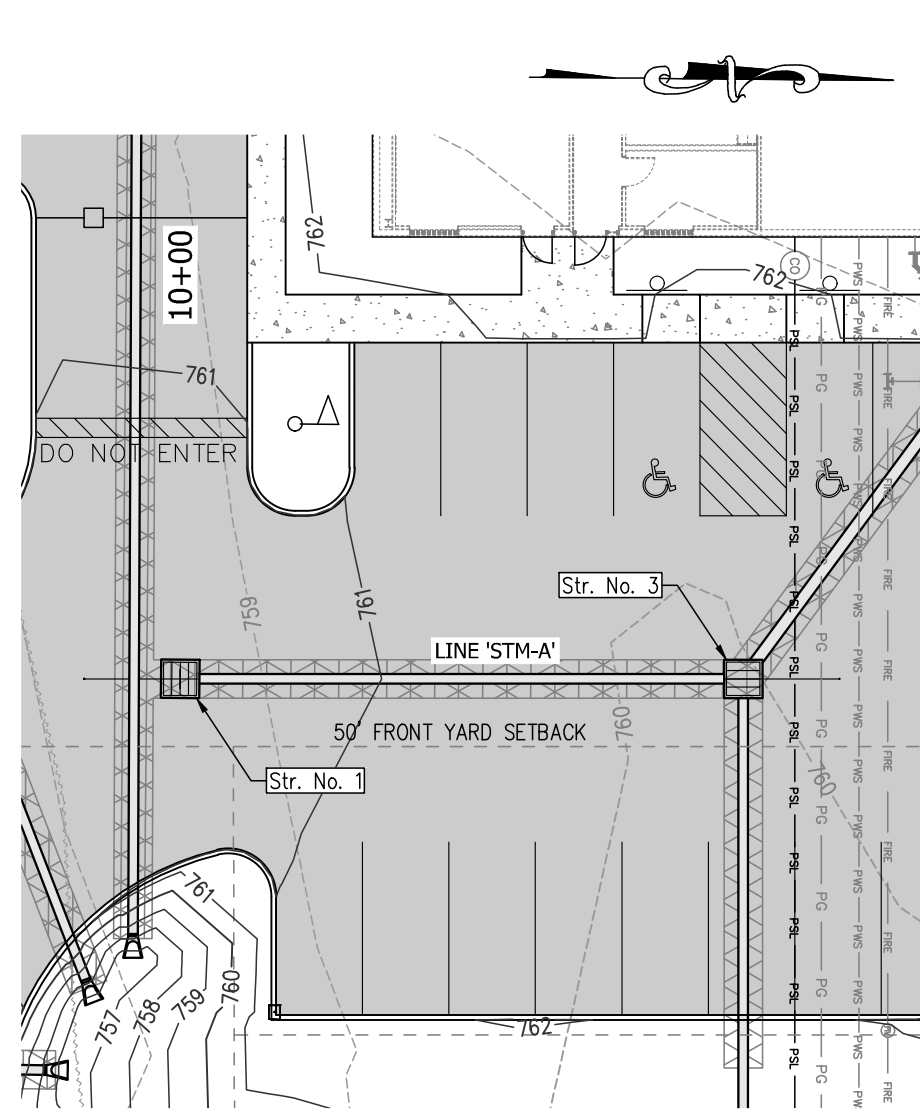
ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, CITY OR COUNTY OFFICIALS.

NOTE:
 NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.



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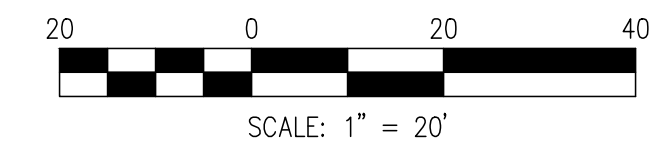
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KEYMAP
NO SCALE

PROPOSED LEGEND

---	PROPERTY LINE
---	SECTION LINE
---	SETBACK LINE
---	EASEMENT LINE
---	FENCE LINE
○	SANITARY SEWER LATERAL WITH CLEANOUT
⊕	STORM SEWER W/INLET & END SECTION
---	FIRE SERVICE LINE
---	WATER SERVICE LINE
---	GAS LINE
⊕	SIGN
⊕	PIV
⊕	FDC
⊕	FIRE HYDRANT
⊕	TEE
⊕	45° BEND
⊕	GRANULAR BACKFILL ALONG STORM SEWER



ALL STORM, SANITARY AND UTILITY TABLES ARE LOCATED ON SHEET

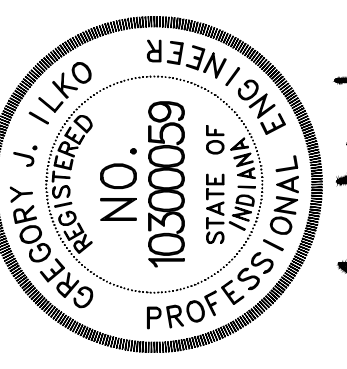
NOTE: NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

- NOTES
- ALL STORM SEWER CASTINGS SHALL INCLUDE AN EMBOSSED ENVIRONMENTAL LOGO WITH A DEPICTION OF A FISH AND THE PHRASE "DUMP NO WASTE-DRAINS TO STREAM".
 - ALL STORM SEWER LOCATED WITHIN PUBLIC RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE (RCP), CLASS III, WITH TYPE B WALL THICKNESS, UTILIZING GASKET FITTINGS.
 - ALL HDPE PIPE SHALL BE SOIL TIGHT, N-12 DUAL WALL HDPE PIPE AS MANUFACTURED BY ADS DRAINAGE SOLUTIONS OR AN APPROVED EQUAL.



STORM PLAN AND PROFILE

JOHNSON COUNTY RECYCLE CENTER



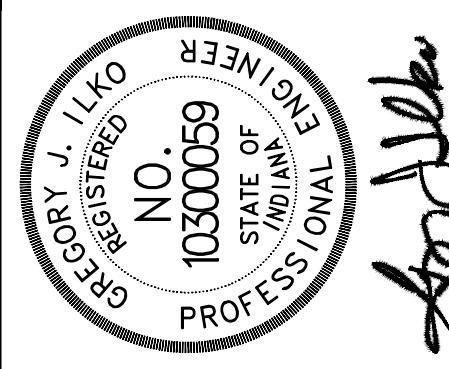
NO.	DATE	BY	REVISIONS
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2	05.21.24	BTY	REVISIONS PER CITY OF FRANKLIN REVIEW COMMENTS
1	05.09.24	BTY	REVISIONS PER JOB OUTSIDE REVIEW COMMENTS

JOB NO.	BTY	CHECKED	BTY	DATE	APR 11, 2024
DESIGNED	BTY	APPR.	GJI		

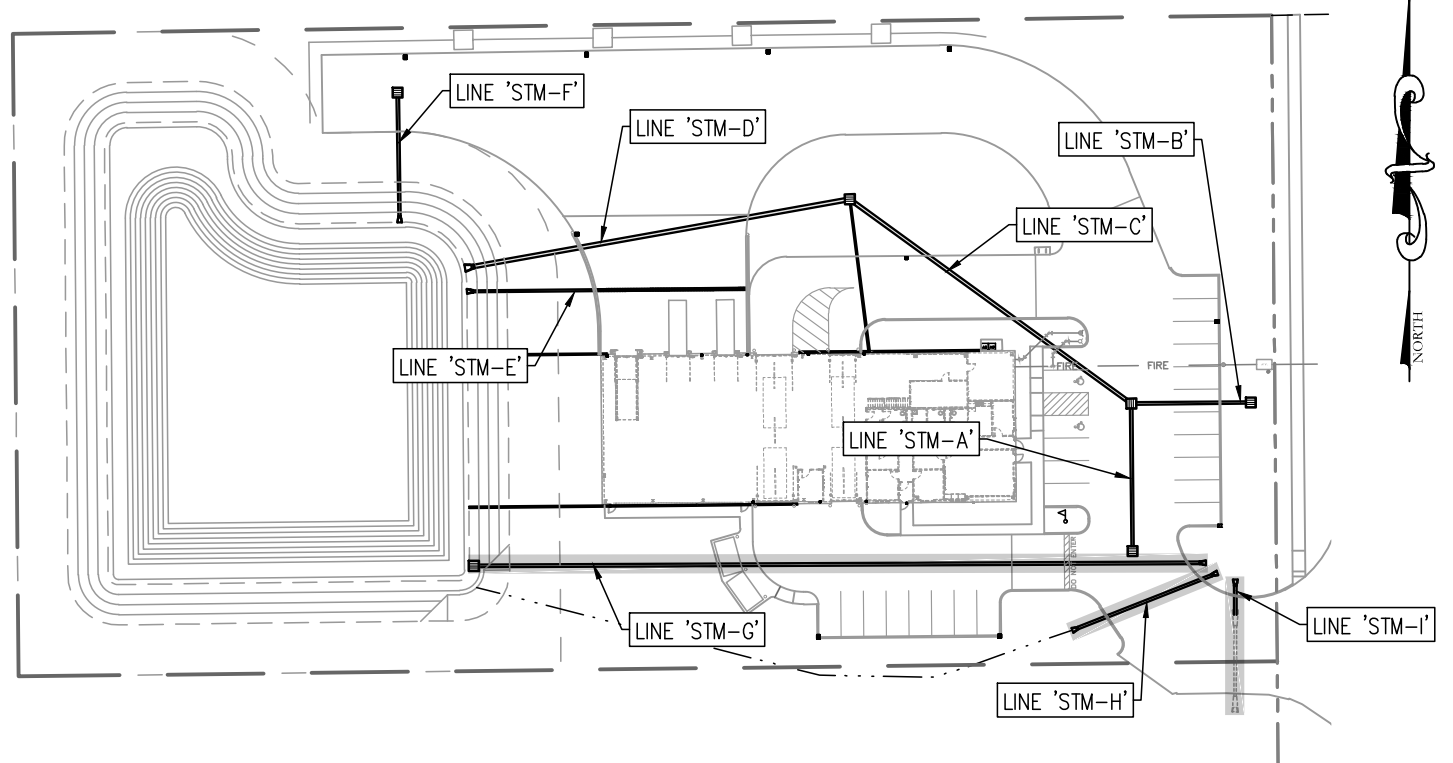
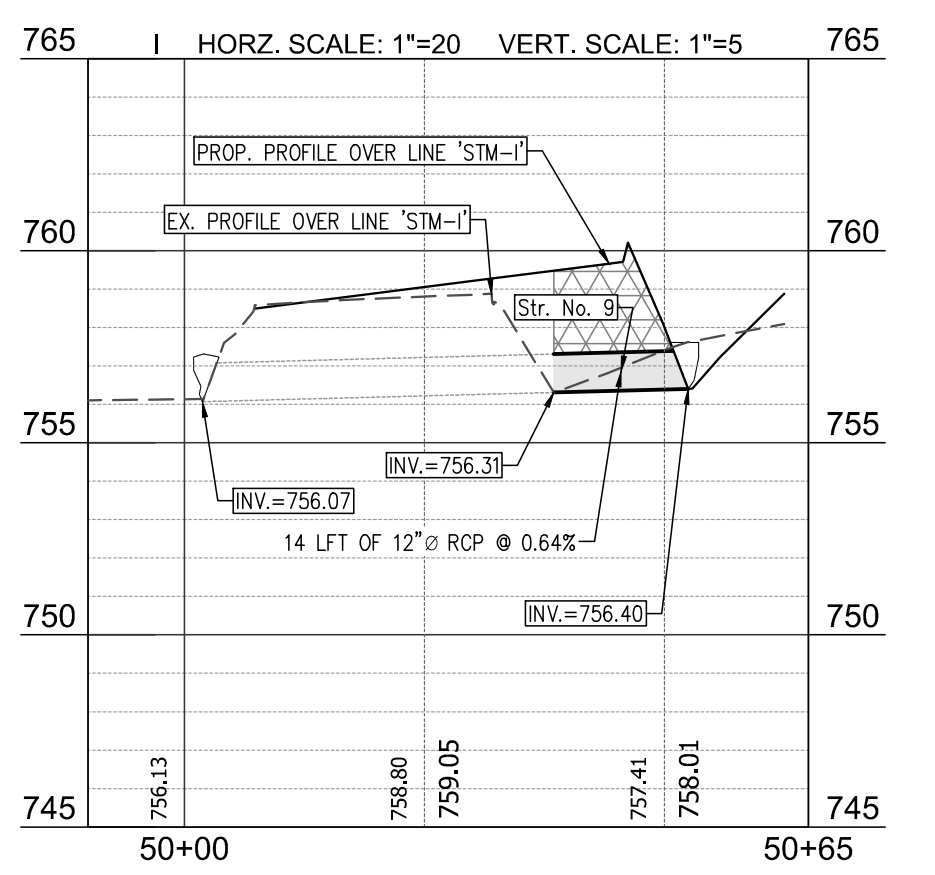
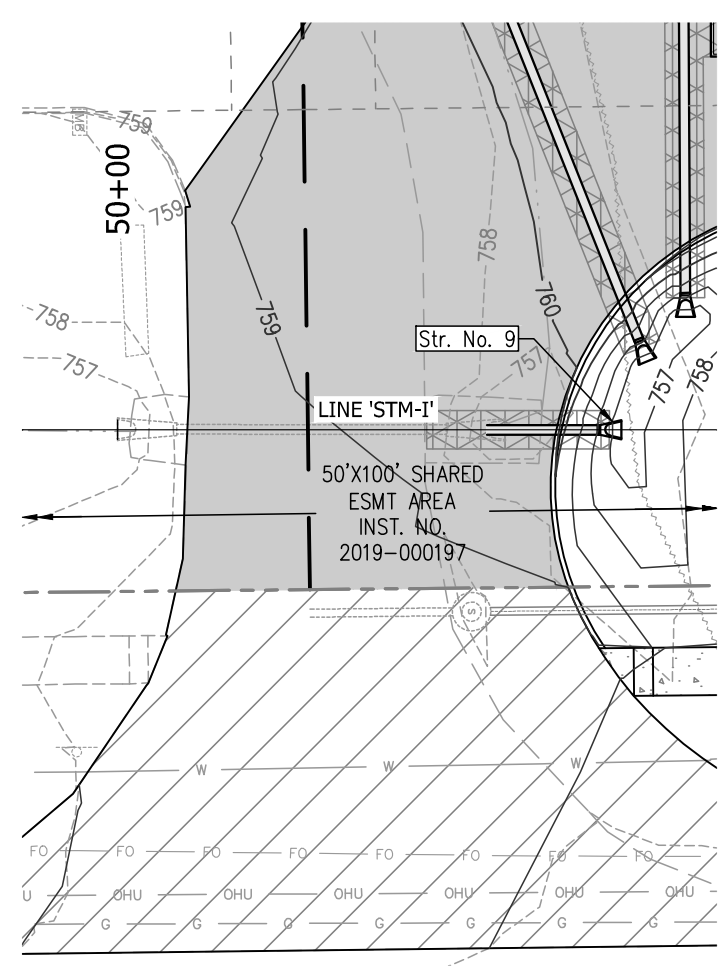
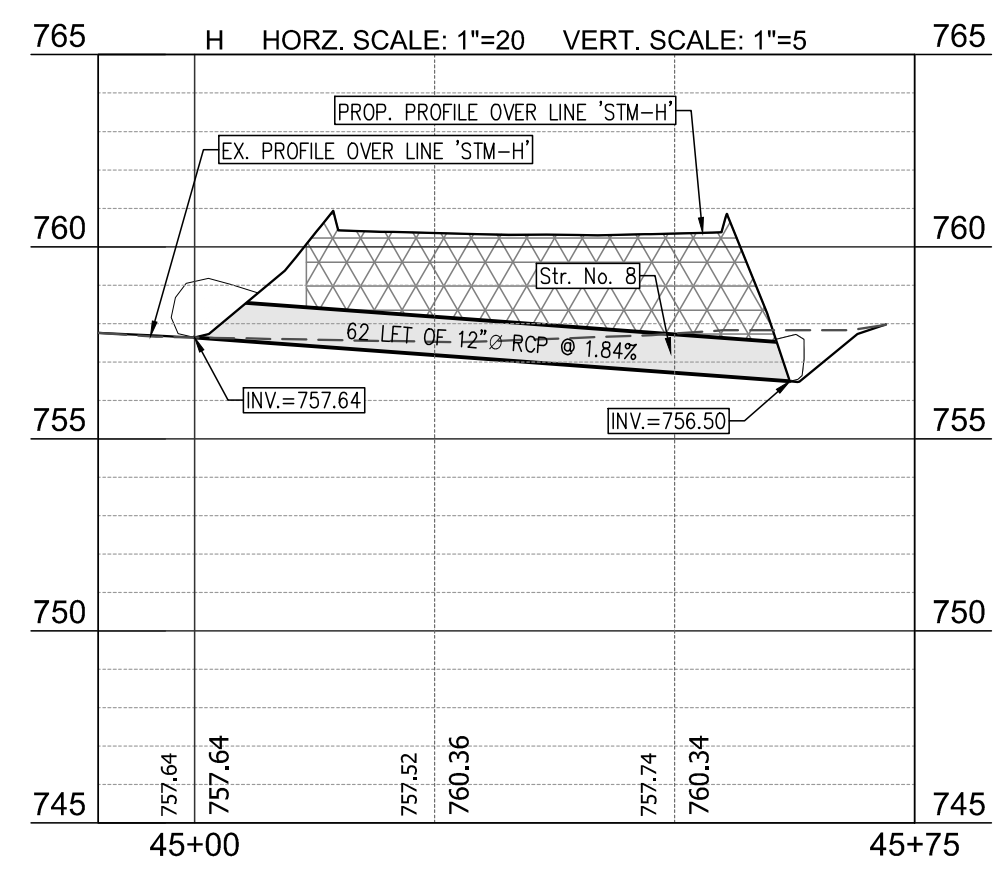
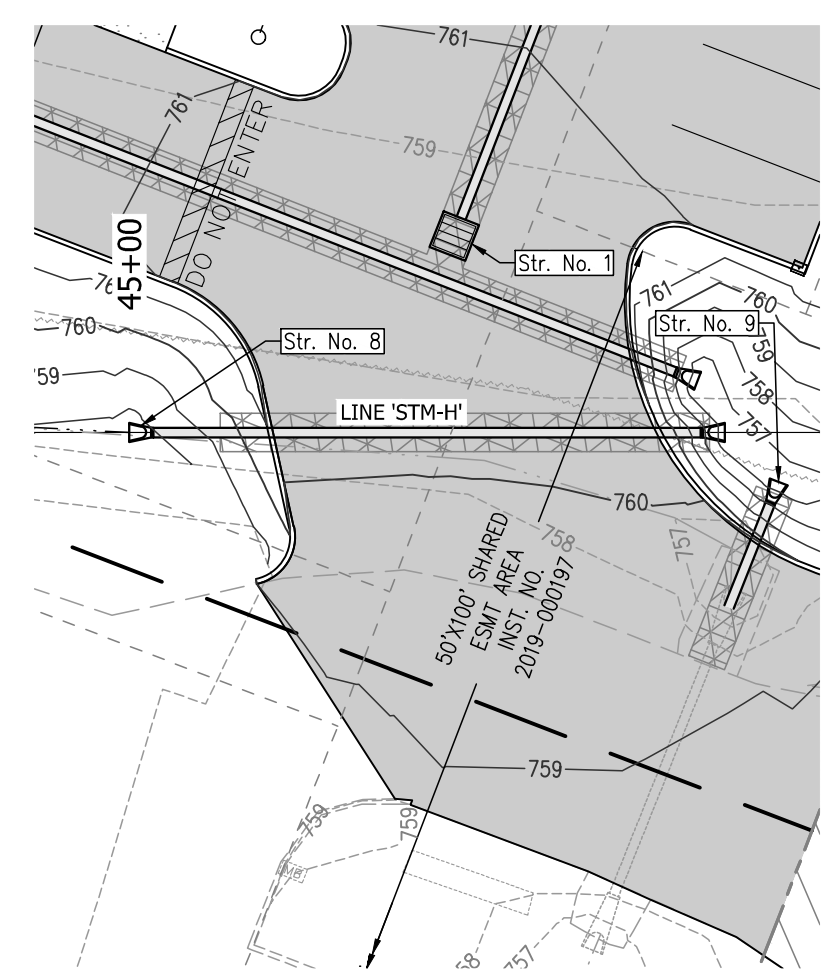
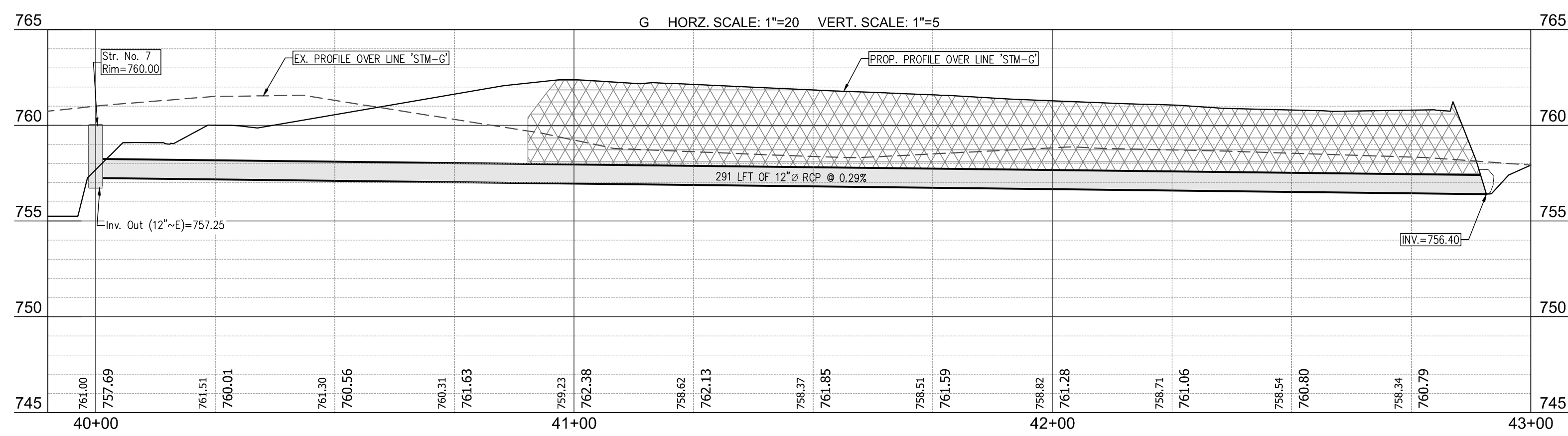
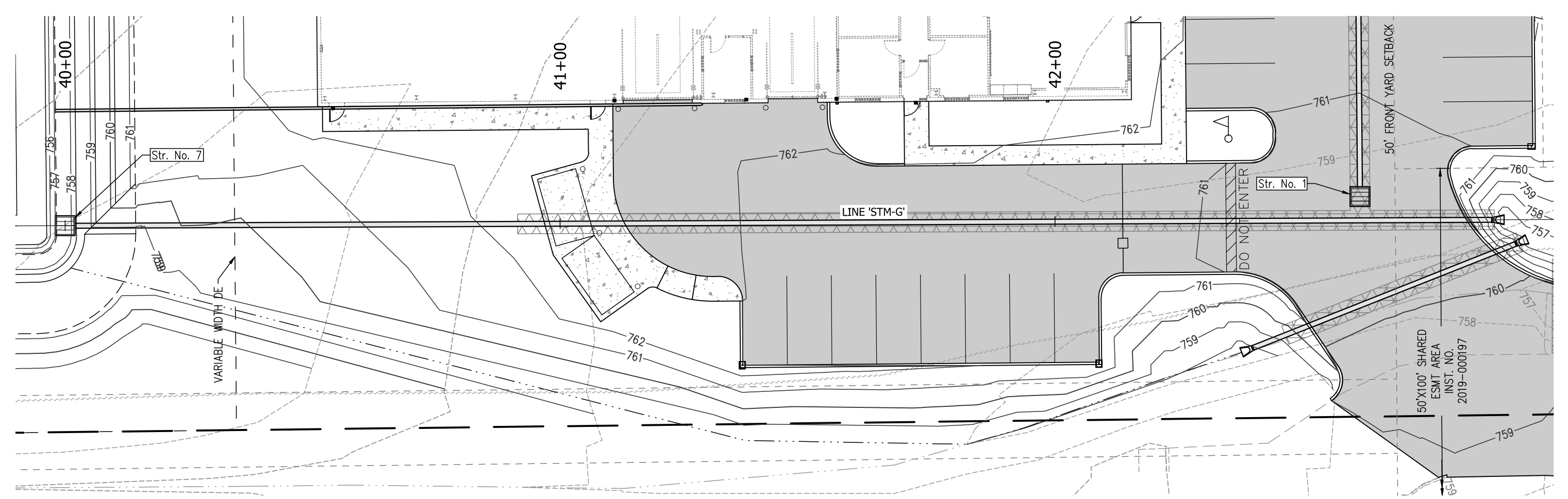
STORM PLAN AND PROFILE

JOHNSON COUNTY RECYCLE CENTER

JOB NO.	BTW	CHECKED	BTW	DATE	APRIL 11, 2024	DESIGNED	BTW	DRAWN	LMC
DATE	APRIL 11, 2024	APPR.	GJI	DATE	APRIL 11, 2024	DESIGNED	BTW	DRAWN	LMC

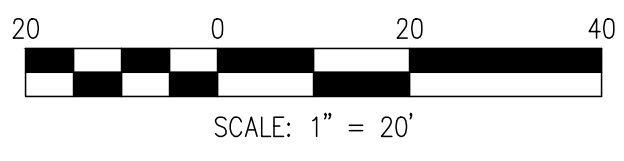


NO.	DATE	REVISIONS	BY	APPR.
9				
8				
7				
6				
5				
4				
3				
2	05.21.24	REVISIONS PER CITY OF FRANKLIN REVIEW COMMENTS	BTW	GJI
1	05.09.24	REVISIONS PER JOB OUTSIDE REVIEW COMMENTS	BTW	GJI



PROPOSED LEGEND

---	PROPERTY LINE
- - - -	SECTION LINE
---	SETBACK LINE
- - - -	EASEMENT LINE
---	FENCE LINE
⊙	SANITARY SEWER LATERAL WITH CLEANOUT
⊙	STORM SEWER W/INLET & END SECTION
---	FIRE SERVICE LINE
---	WATER SERVICE LINE
---	GAS LINE
⊙	SIGN
⊙	PIV
⊙	FDC
⊙	FIRE HYDRANT
⊙	TEE
⊙	WATER VAULT
⊙	45° BEND



ALL STORM, SANITARY AND UTILITY TABLES ARE LOCATED ON SHEET

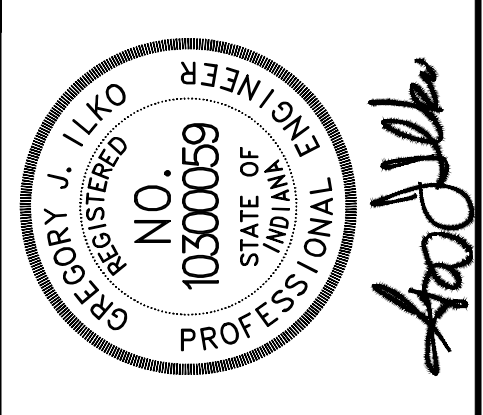
NOTE: NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.



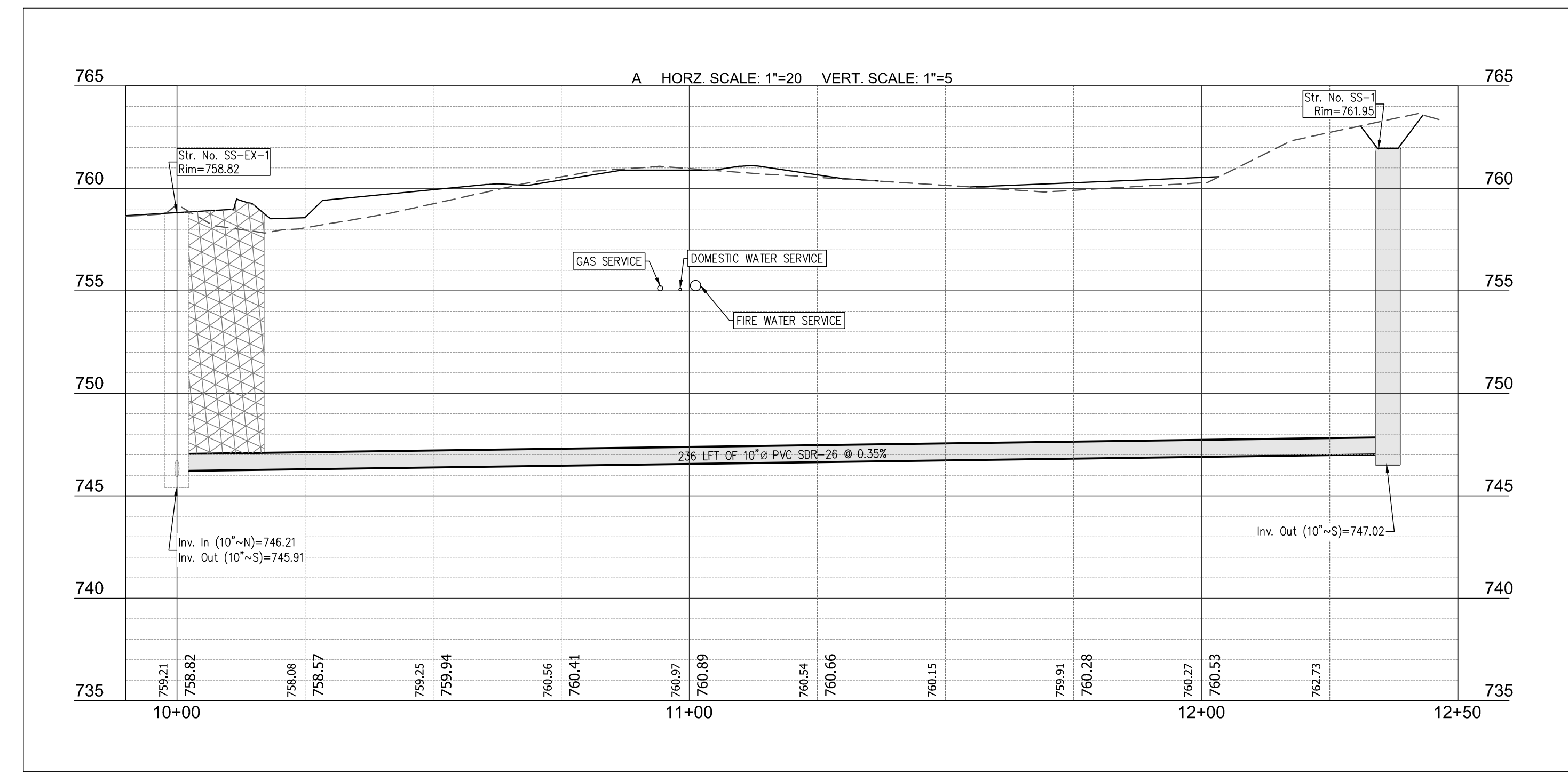
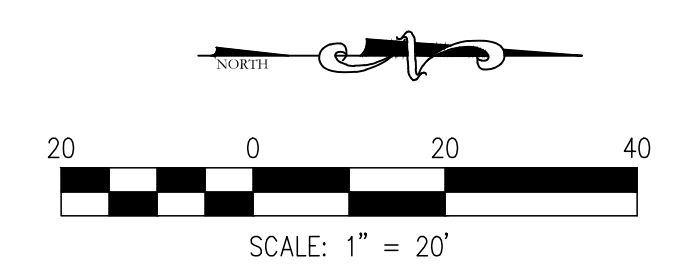
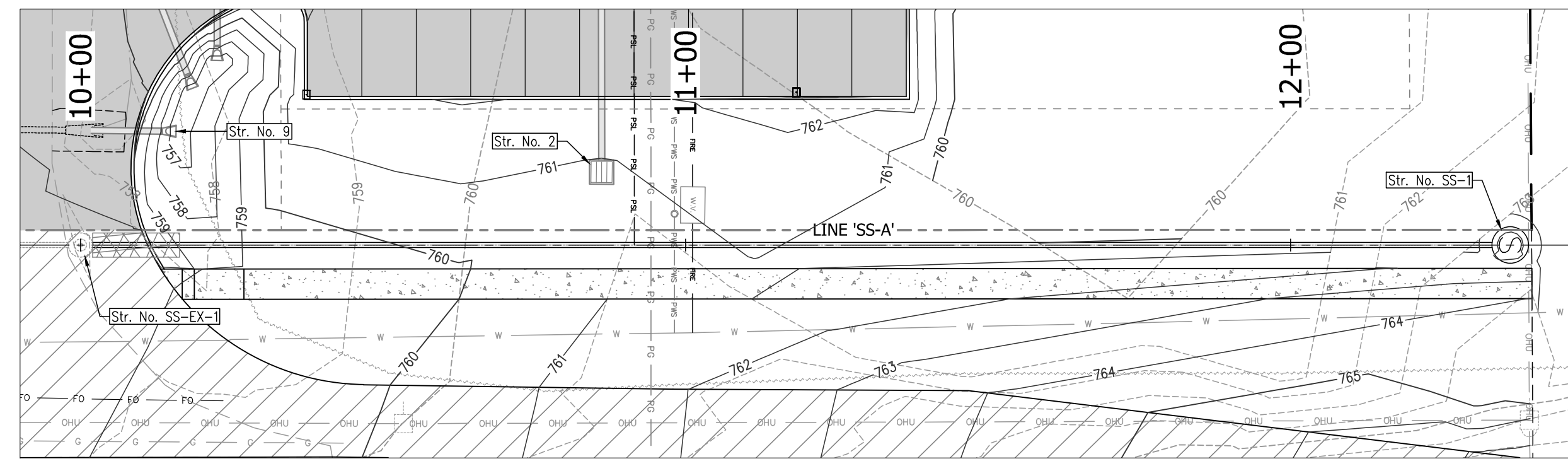
- NOTES**
- ALL STORM SEWER CASTINGS SHALL INCLUDE AN EMBOSSED ENVIRONMENTAL LOGO WITH A DEPICTION OF A FISH AND THE PHRASE "DUMP NO WASTE-DRAINS TO STREAM".
 - ALL STORM SEWER LOCATED WITHIN PUBLIC RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE (RCP), CLASS III, WITH TYPE B WALL THICKNESS, UTILIZING GASKET FITTINGS.
 - ALL HOPE PIPE SHALL BE SOIL TIGHT, N-12 DUAL WALL HOPE PIPE AS MANUFACTURED BY ADS DRAINAGE SOLUTIONS OR AN APPROVED EQUAL.

SANITARY PLAN AND PROFILE

JOHNSON COUNTY RECYCLE CENTER



JOB No.	BTW	CHECKED	BTW
DATE	APRIL 11, 2024	DESIGNED	BTW
DRAWN	LMC	APPR.	GJI



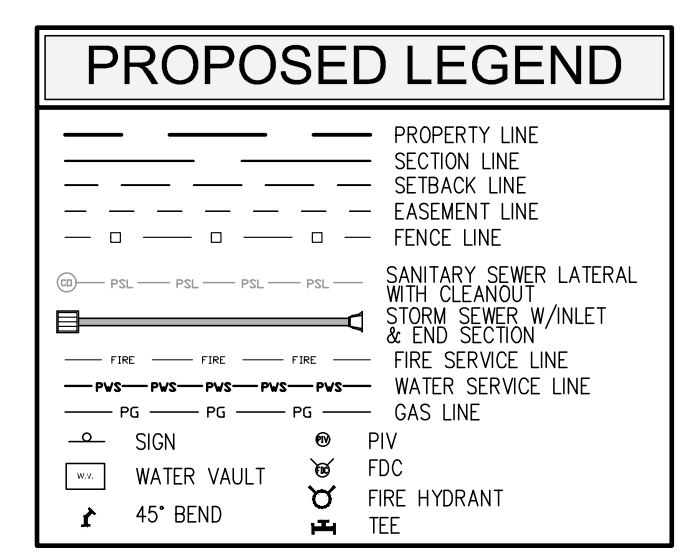
- ### SANITARY MAIN INSTALLATION NOTES
- FOR ANY WATER MAIN CROSSINGS, THE WATER MAIN SHALL BE A MINIMUM OF 18" ABOVE THE SANITARY SEWER. IF VERTICAL SEPARATION CANNOT BE MET, USE OF CONCRETE CRADLES IS REQUIRED.
 - WHEN CROSSING THE NEW WATER SERVICE LINE AND GAS SERVICE LINE, THE SANITARY MAIN MUST BE A MINIMUM OF 18" ABOVE THOSE LINES.
 - PIPE MATERIAL FOR SANITARY SEWER MAINS GREATER THAN 12' IN DEPTH SHALL BE SDR-26 PVC.
 - SANITARY LATERAL PIPE DIAMETER MUST BE A MINIMUM OF 4" ACCORDING TO 327 IAC 3-6-8.0.

ALL STORM, SANITARY AND UTILITY TABLES ARE LOCATED ON SHEET 400

NOTE: CONTRACTOR TO FIELD VERIFY EXISTING ELEVATIONS OF STRUCTURE SS-EX-1 PRIOR TO INSTALLATION OF ANY PROPOSED INFRASTRUCTURE. PROPOSED INVERT SHALL BE CORE DRILLED INTO EXISTING MANHOLE PER ALL REQUIRED FRANKLIN REQUIREMENTS

NOTE: NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

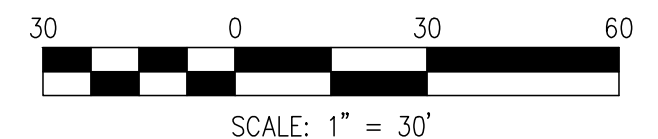
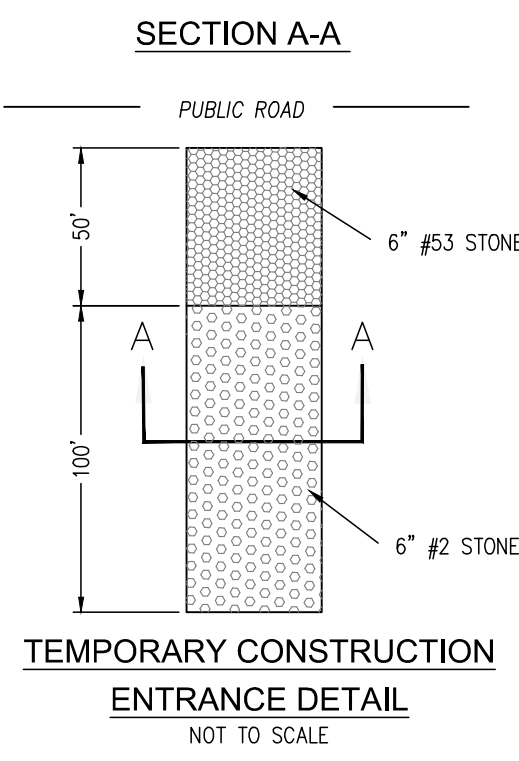
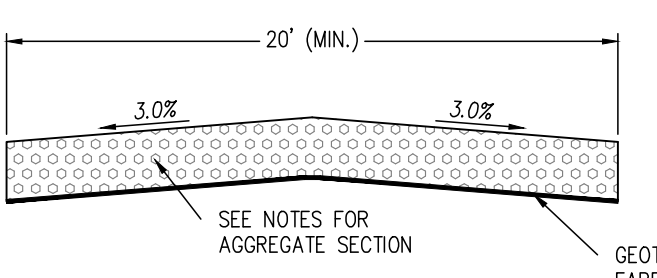
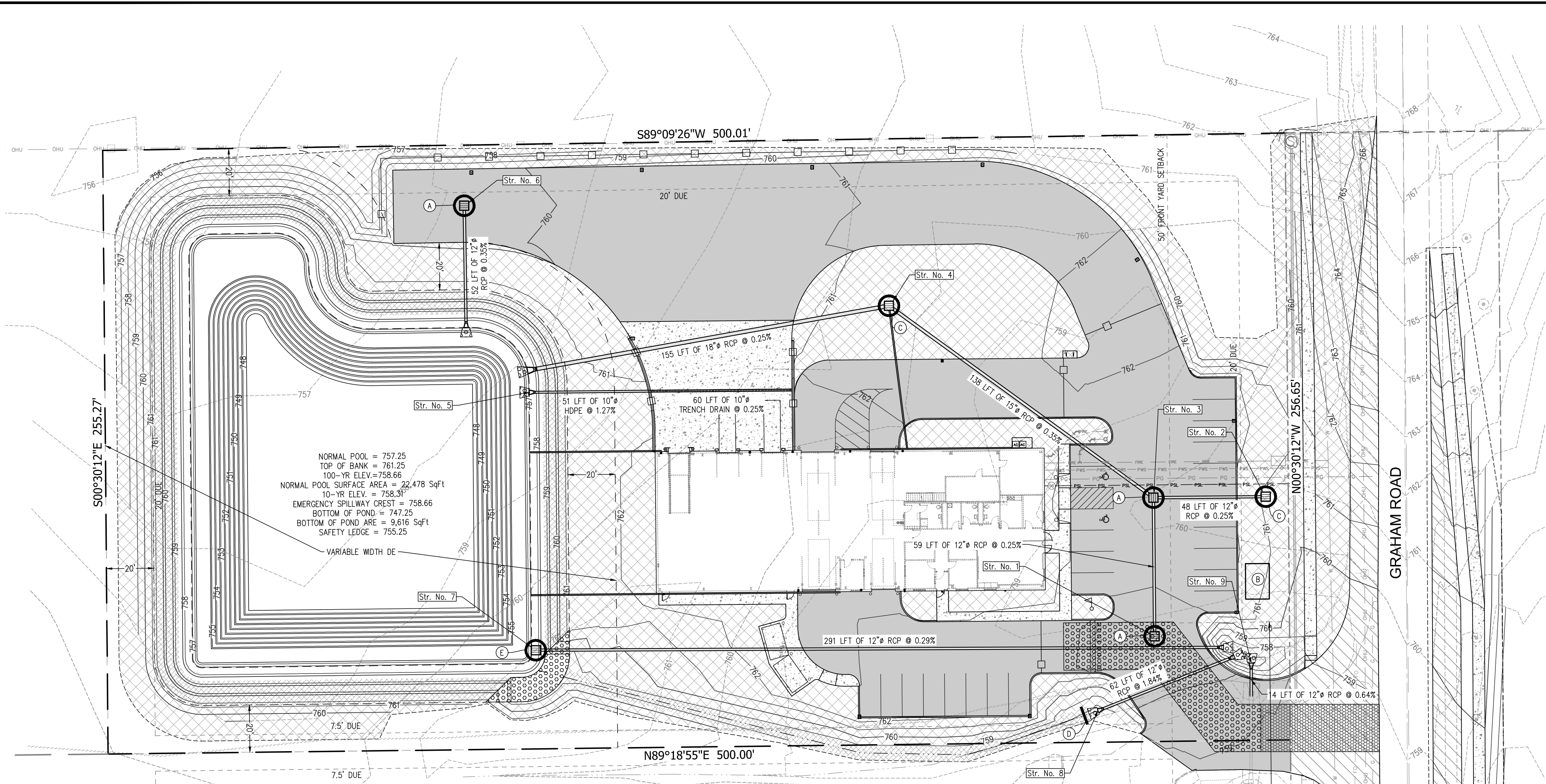
GRANULAR BACKFILL ALONG SANITARY SEWER



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 DATE/USER : 5/20/2024 4:21 PM / Bhanu@cb

NO.	DATE	REVISIONS
1	05.09.24	BY: BTW
2	05.21.24	BY: GJI

NO.	DATE	REVISIONS
1	05.09.24	REVISED PER CITY OF FRANKLIN REVIEW COMMENTS
2	05.21.24	REVISED PER JOB OUTSIDE REVIEW COMMENTS
3		
4		
5		
6		
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9		



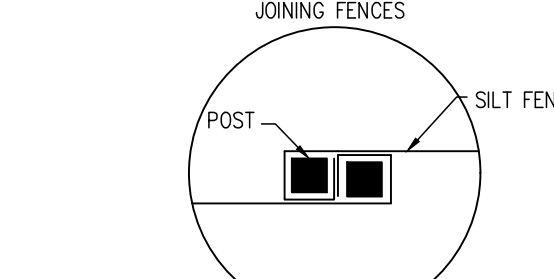
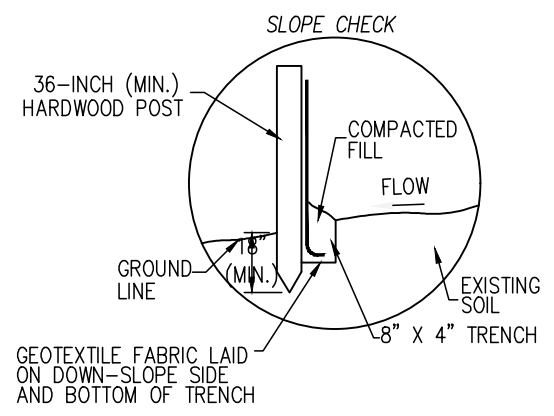
ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE OR COUNTY OFFICIALS

EROSION CONTROL LEGEND

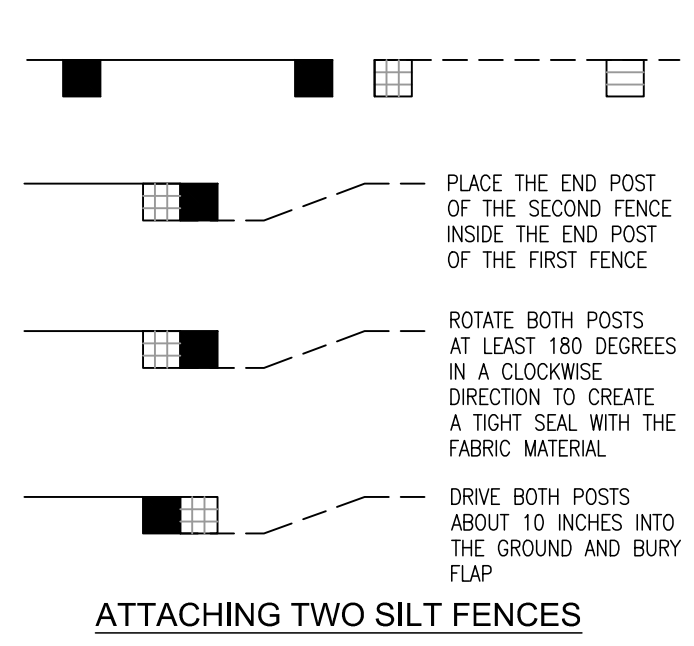
- MULCHED SEEDING
- EROSION CONTROL BLANKET (NORTH AMERICAN GREEN SC-150 OR EQUAL) AND MULCHED SEEDING
- REVETMENT RIPRAP
- CONSTRUCTION DRIVE (SEE DETAIL THIS SHEET)
- EXISTING CONTOURS
- PROPOSED CONTOURS
- SILT FENCE SLOPE CHECK (NUTEC 3 NWS-6 OR APPROVED EQUAL)
- CONSTRUCTION LIMITS
- CURB INLET PROTECTION (SEE DETAIL-THIS SHEET)
- CONCRETE WASHOUT AREA (SEE DETAIL-THIS SHEET)
- FABRIC DROP INLET PROTECTION (SEE DETAIL-THIS SHEET)
- ROCK CHECK DAM (SEE DETAIL-THIS SHEET)
- ROCK DONUT INLET PROTECTION (SEE DETAIL-THIS SHEET)

EROSION CONTROL NOTES

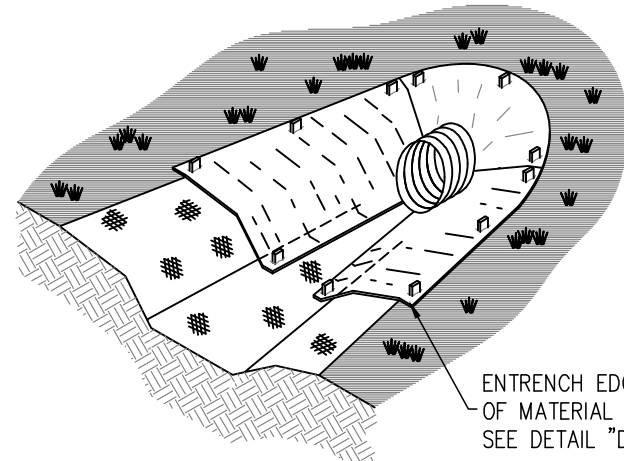
1. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, COUNTY, OR LOCAL OFFICIALS.
2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.
3. CONSTRUCTION STAGING AREA (TO BE DETERMINED BY CONTRACTOR) SHALL INCLUDE THE NOI POSTING, PORT-O-LETS, TRASH CONTAINERS, AND FUELING TANKS.
4. A TRAINED INDIVIDUAL MUST PERFORM AN INSPECTION ONCE A WEEK AND AFTER EVERY 3" OR MORE RAIN EVENT. A LOG OF THE INSPECTION REPORTS MUST BE KEPT AND MADE AVAILABLE TO THE CITY INSPECTOR UPON REQUEST.
5. THERE SHALL BE NO DIRT, DEBRIS, OR STORAGE OF MATERIALS WITHIN THE EXISTING STREET OR RIGHT-OF-WAYS.
6. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL AND THE S.C.S. "FIELD OFFICE TECHNICAL GUIDE".
7. ALL STORM WATER CASTINGS SHALL BE PHASE II COMPLIANT.
8. CONTRACTOR SHALL UTILIZE 12 OZ/SQ. YD. MINIMUM WEIGHT, NON-WOVEN NEEDLE PUNCHED GEOTEXTILE FABRIC BENEATH ALL RIPRAP USED FOR OUTLET PROTECTION.



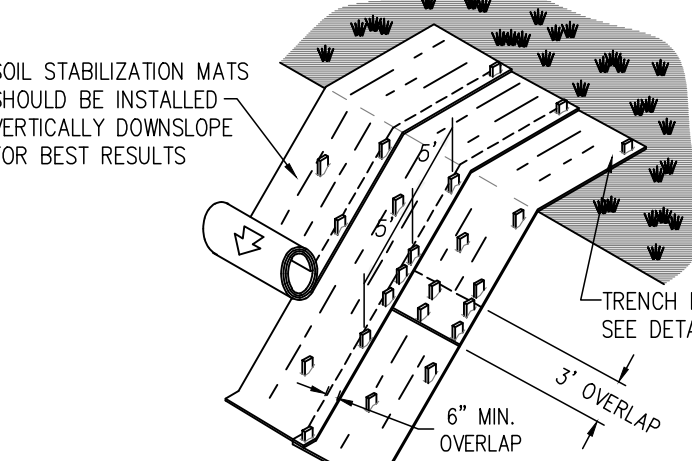
SILT FENCE DETAIL
NOT TO SCALE



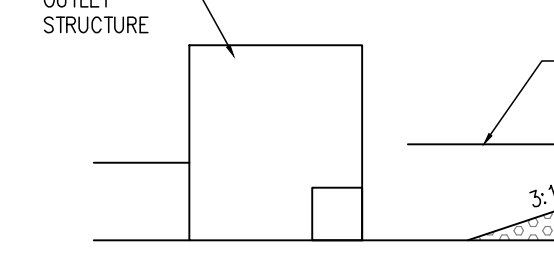
ATTACHING TWO SILT FENCES



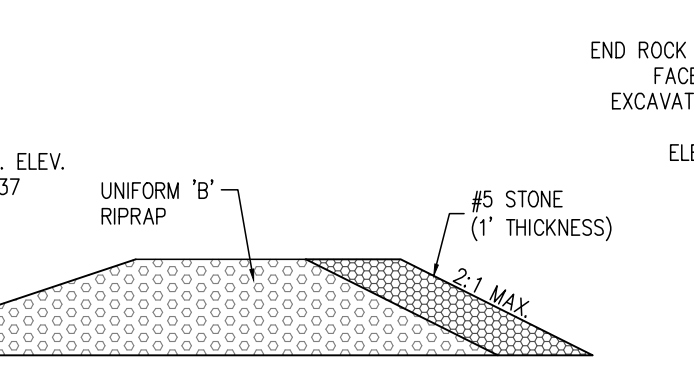
SOIL STABILIZATION MATS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE FOR BEST RESULTS



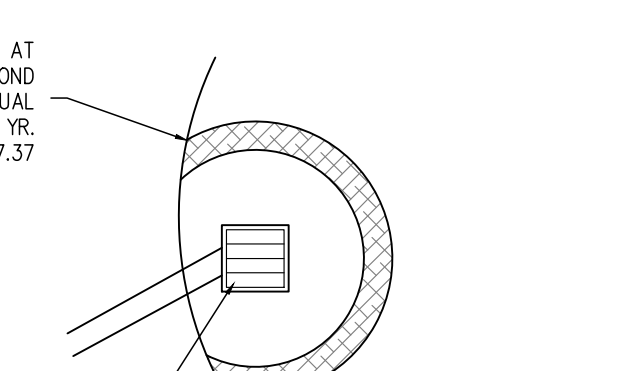
FILL SLOPE SECTION



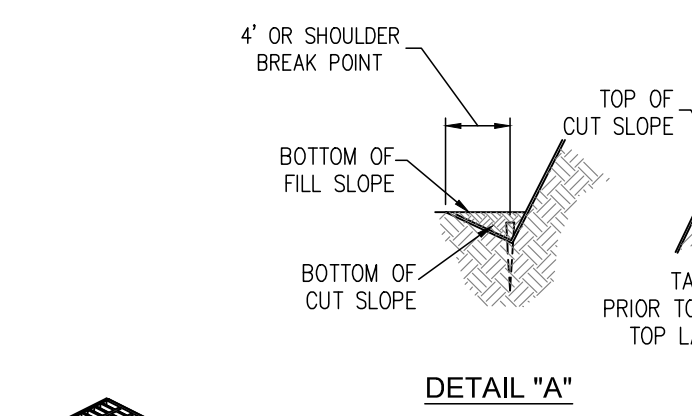
DETENTION OUTLET STRUCTURE



ROCK DONUT INLET PROTECTION DETAIL

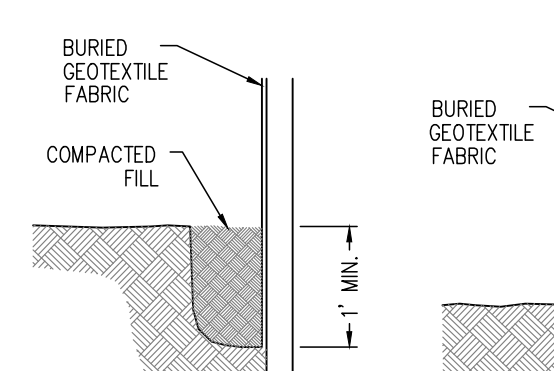


DETENTION OUTLET STRUCTURE

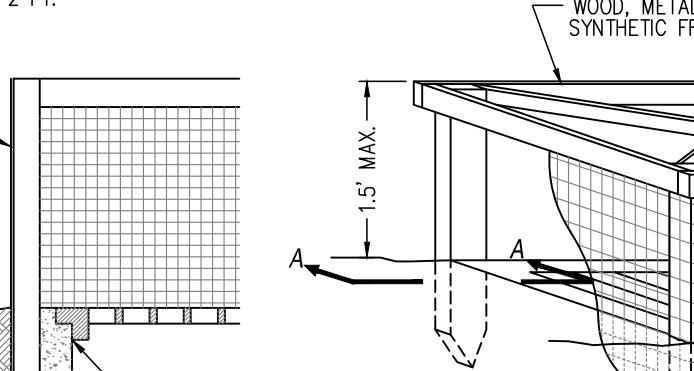


DETAIL 'A' DETAIL 'B'

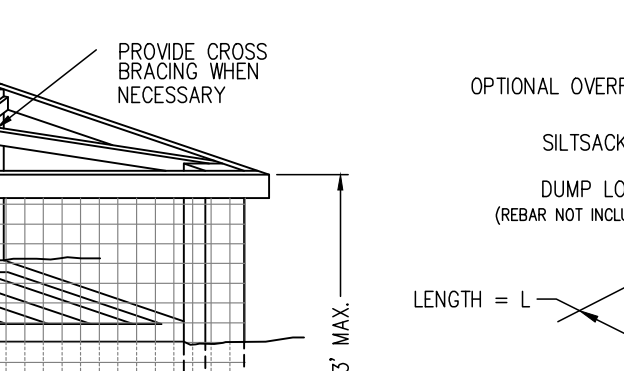
EROSION CONTROL BLANKET SLOPE INSTALLATION
NOT TO SCALE



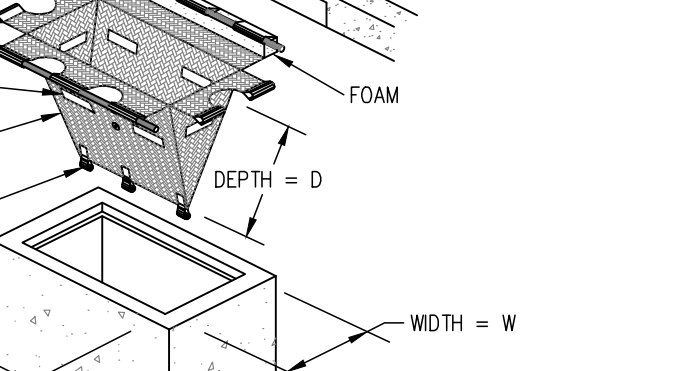
TRENCH DETAIL



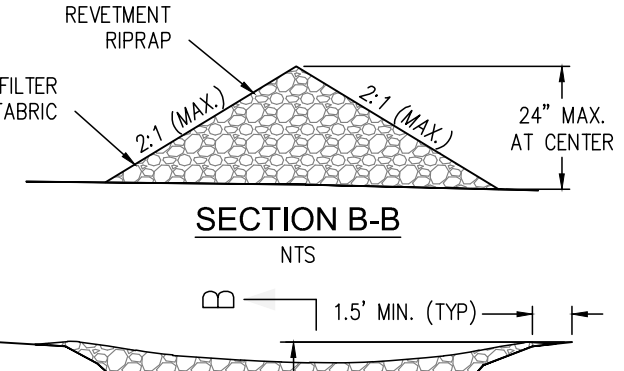
SECTION A-A FABRIC DROP INLET PROTECTION DETAIL



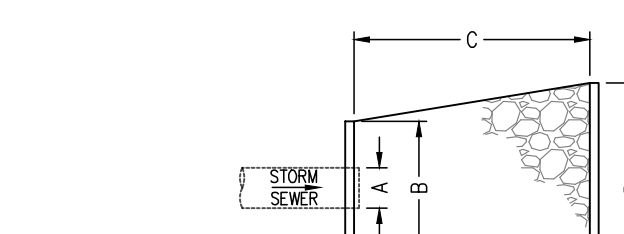
FRAME DETAIL



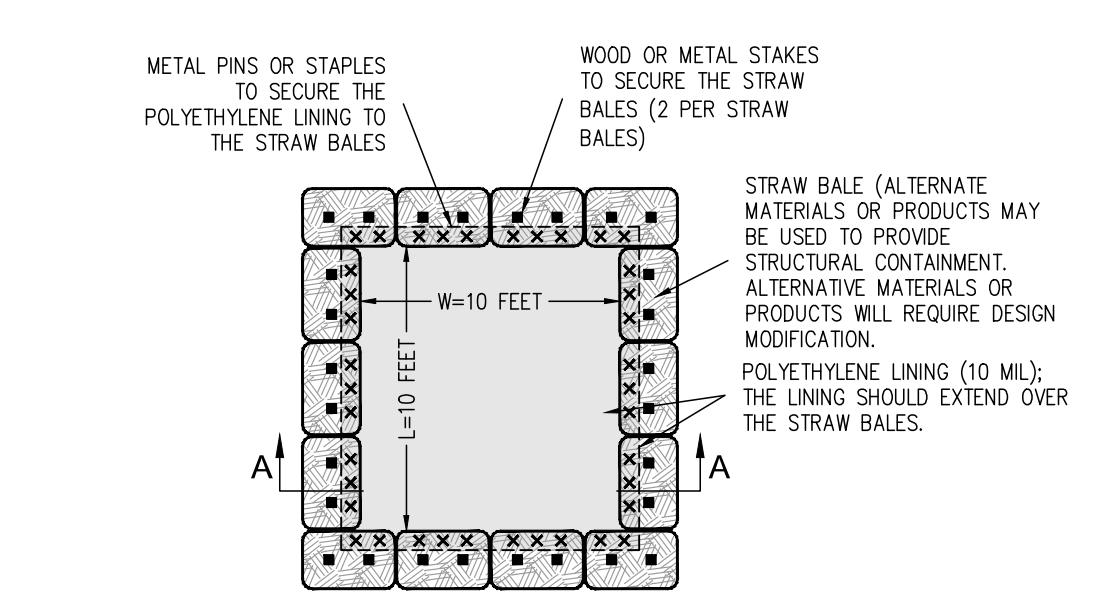
CURB INLET FILTER DETAIL



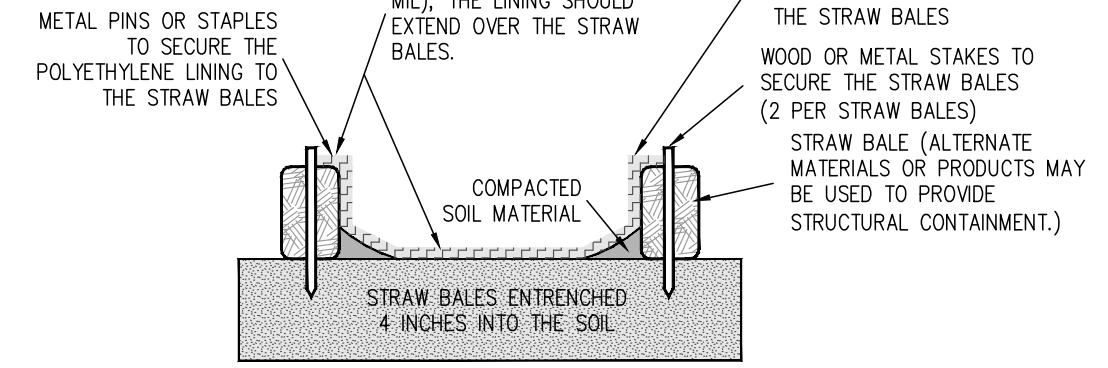
SECTION B-B ROCK CHECK DAM DETAIL



END SECTION RIPRAP APRON DIMENSIONS



PLAN VIEW



SECTION A-A

PIPE OUTLET NO.	A	B	C	D	REVETMENT (TONS)	GEOTEXTILE (SYS)
5	15"	4'	5'	6.5'	3	7
13	12"	3'	4'	5'	2	5
18	15"	4'	5'	6.5'	3	7
22	12"	3'	4'	5'	2	5
32	15"	4'	5'	6.5'	3	7
33A	18"	5'	6'	7.5'	4	9
56	48"	12'	16'	20'	21	39
57	15"	4'	5'	6.5'	3	7

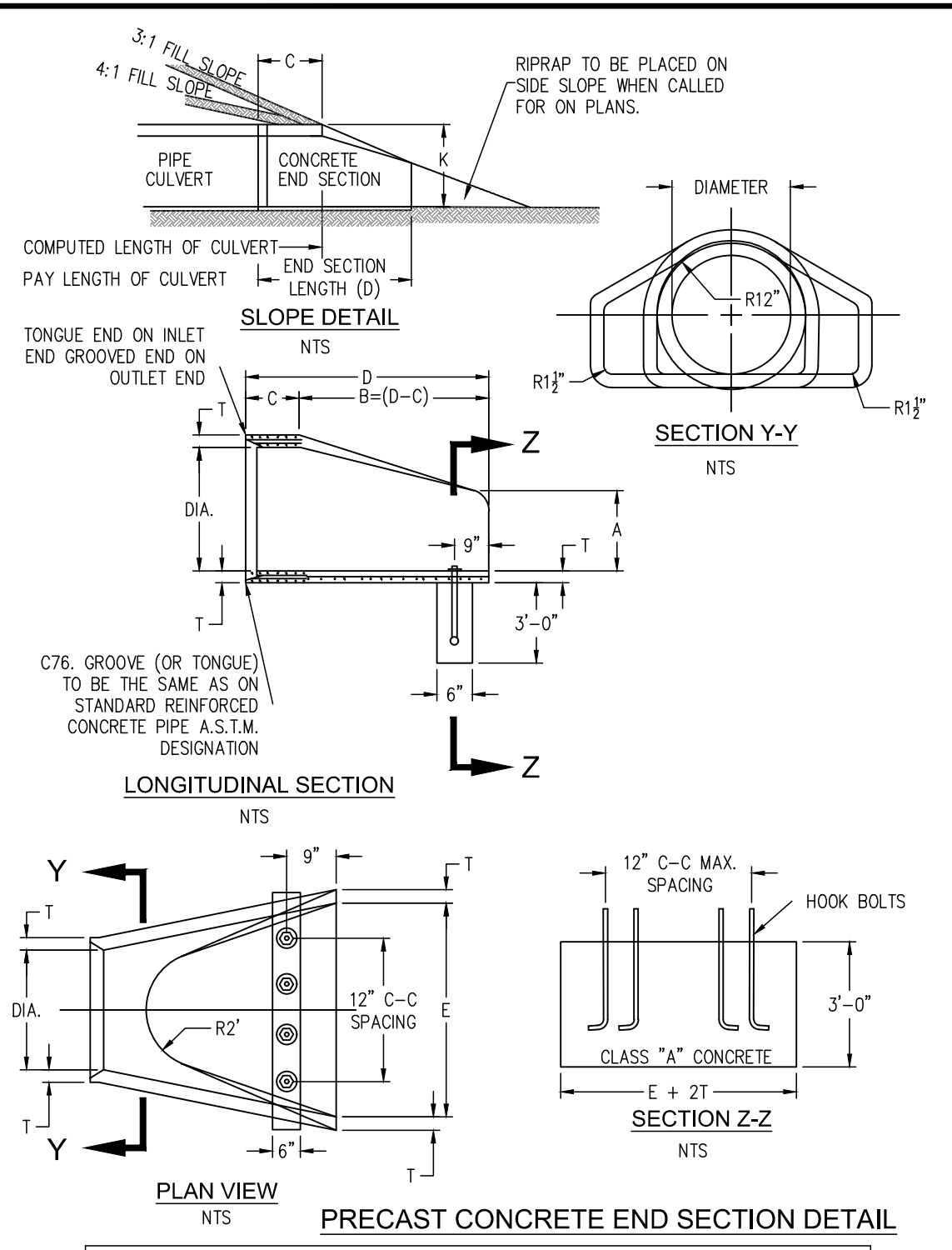
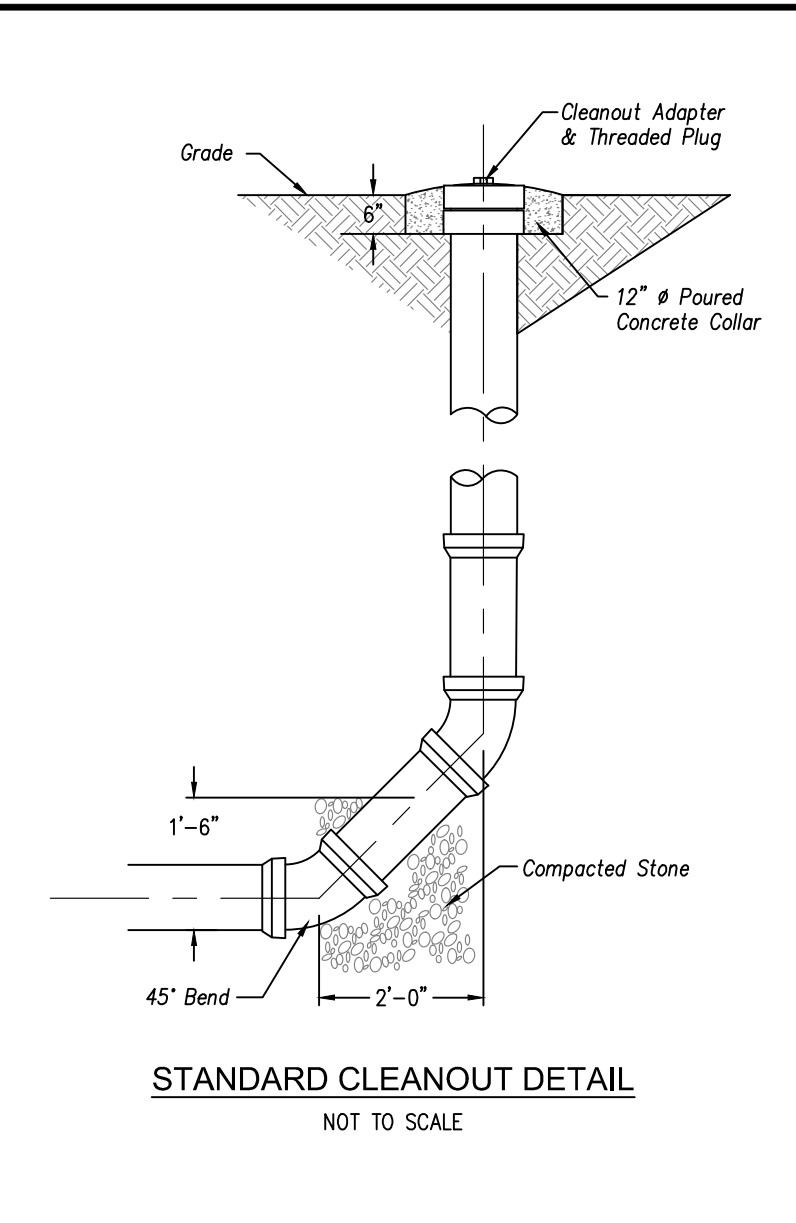
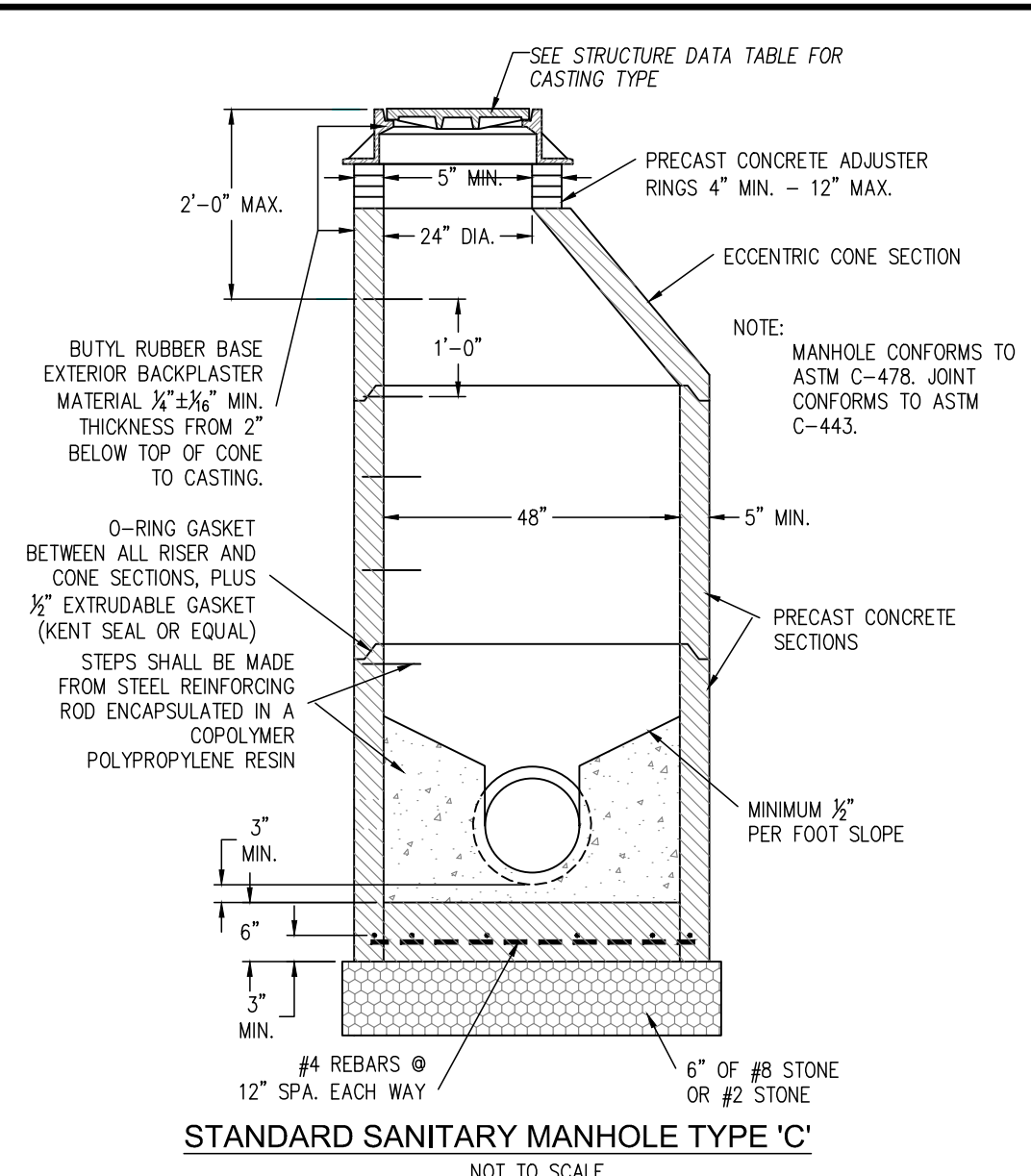
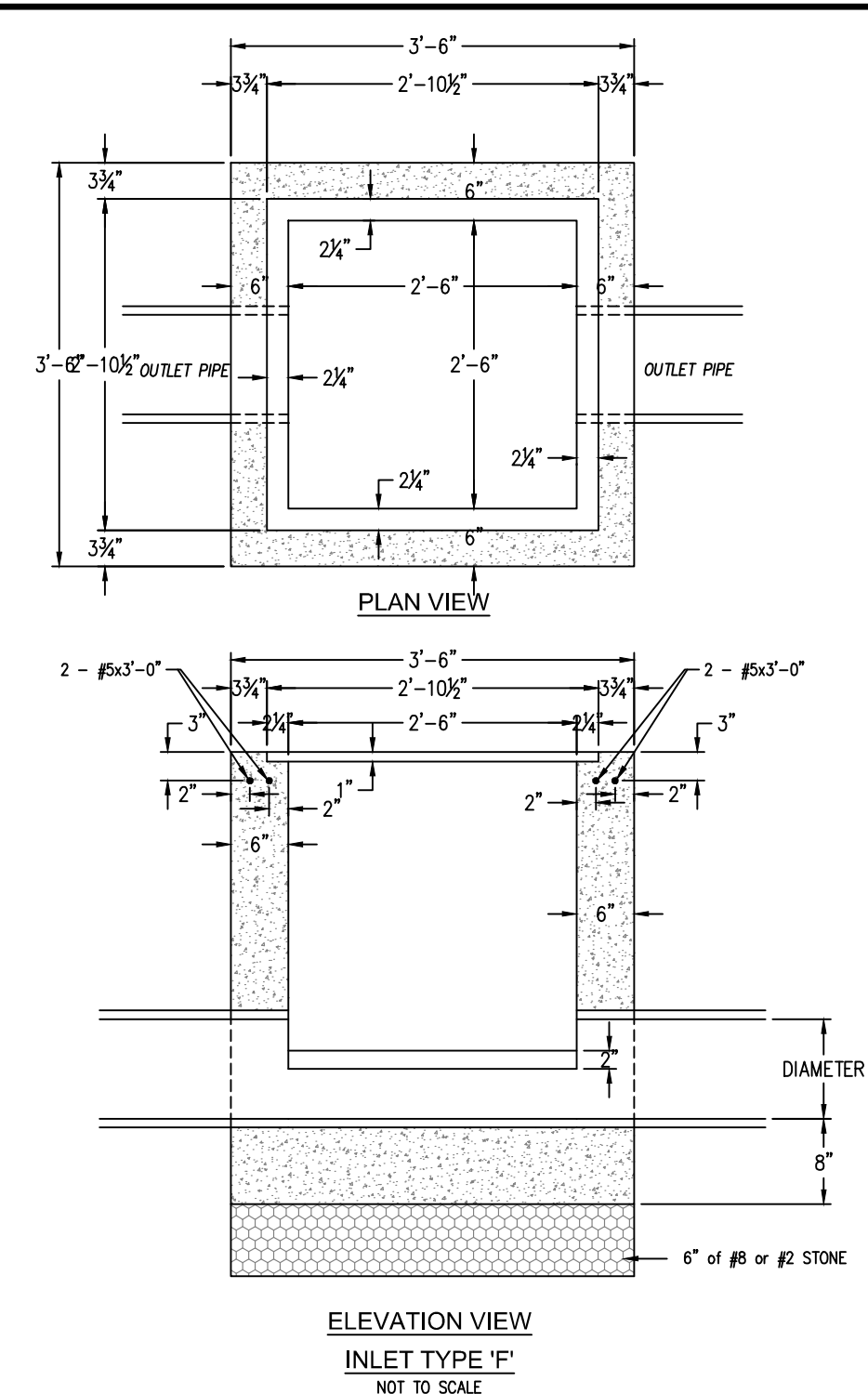
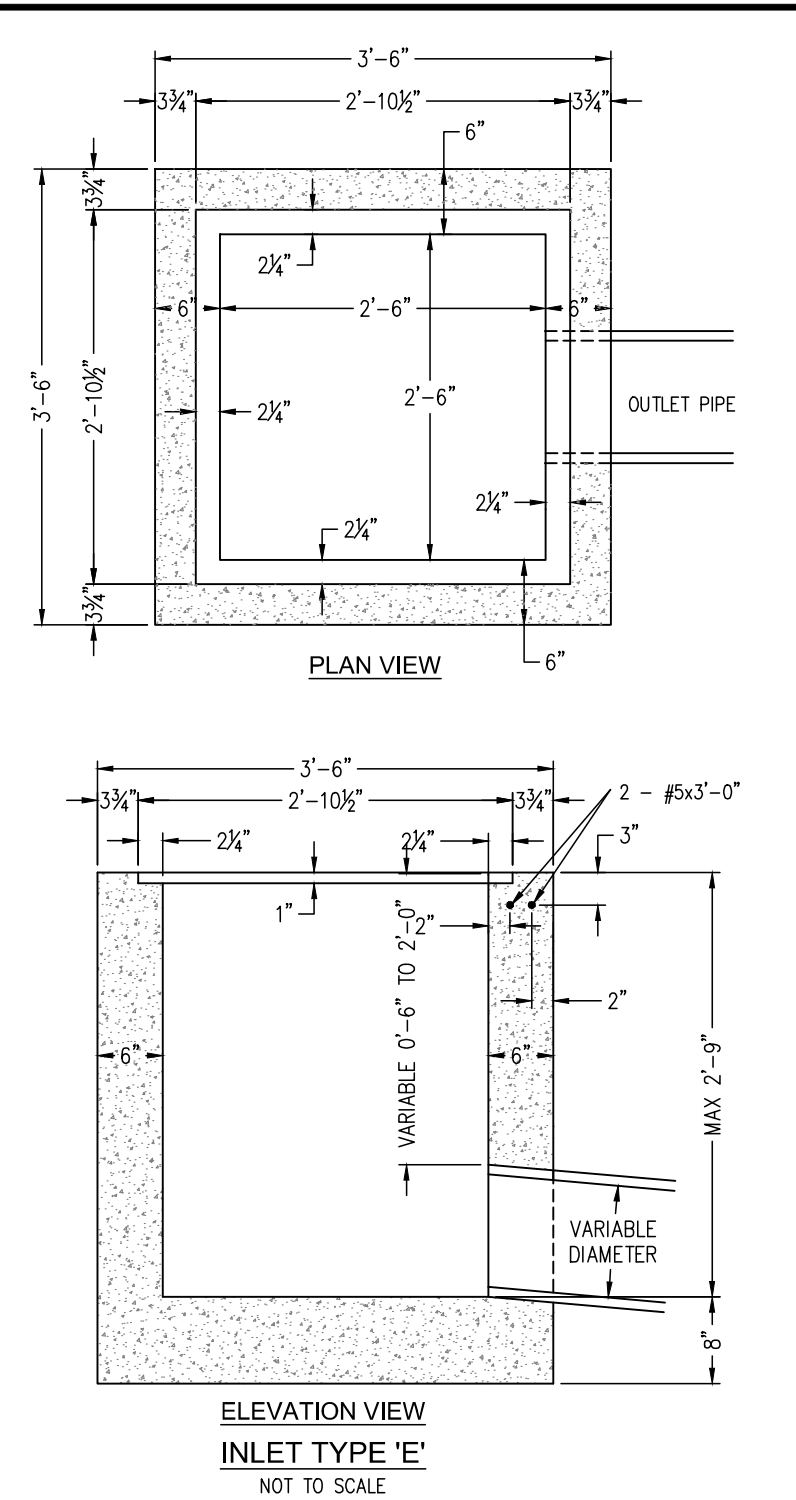
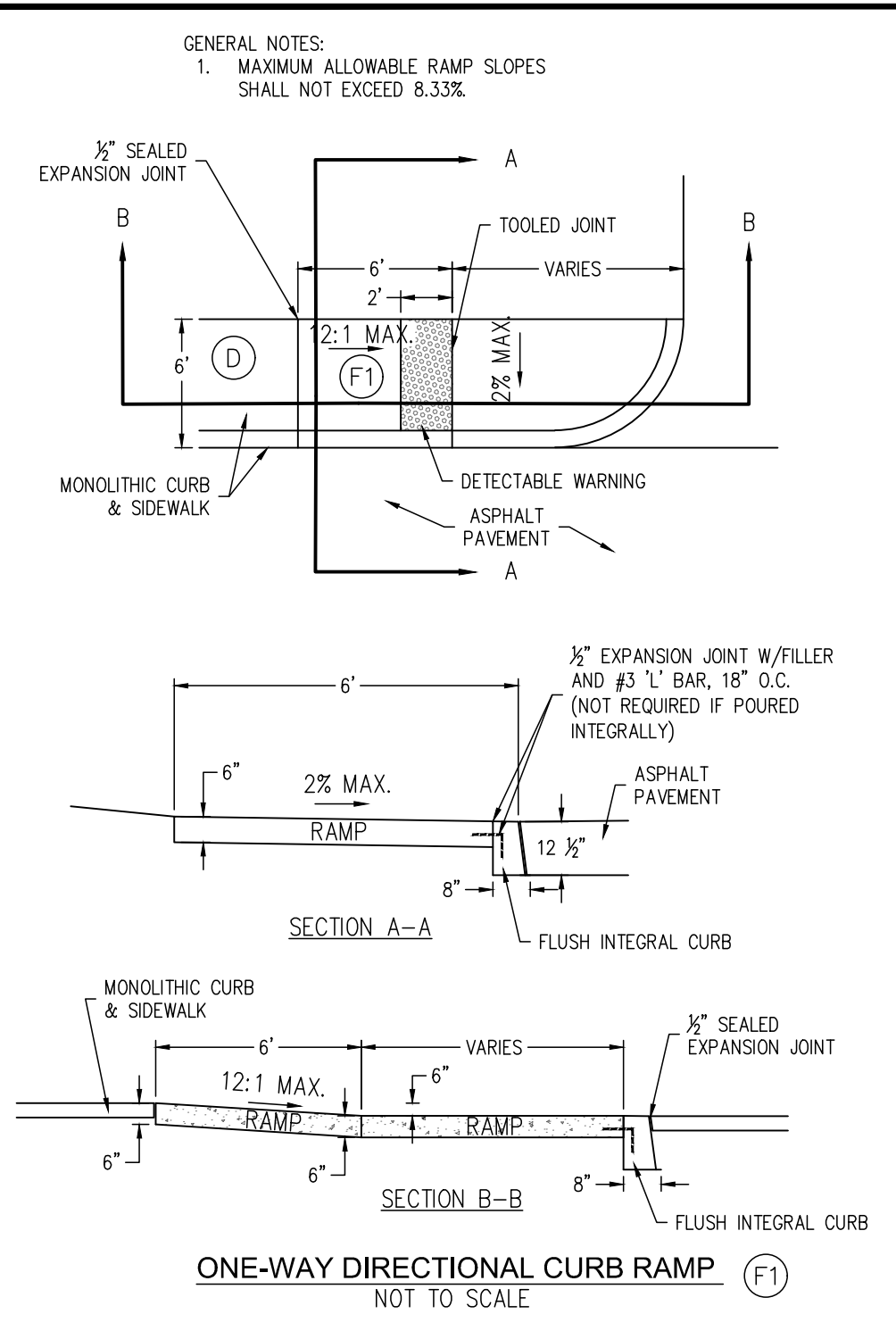
CONCRETE WASHOUT DETAIL

ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, CITY OR COUNTY OFFICIALS

NOTE: NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

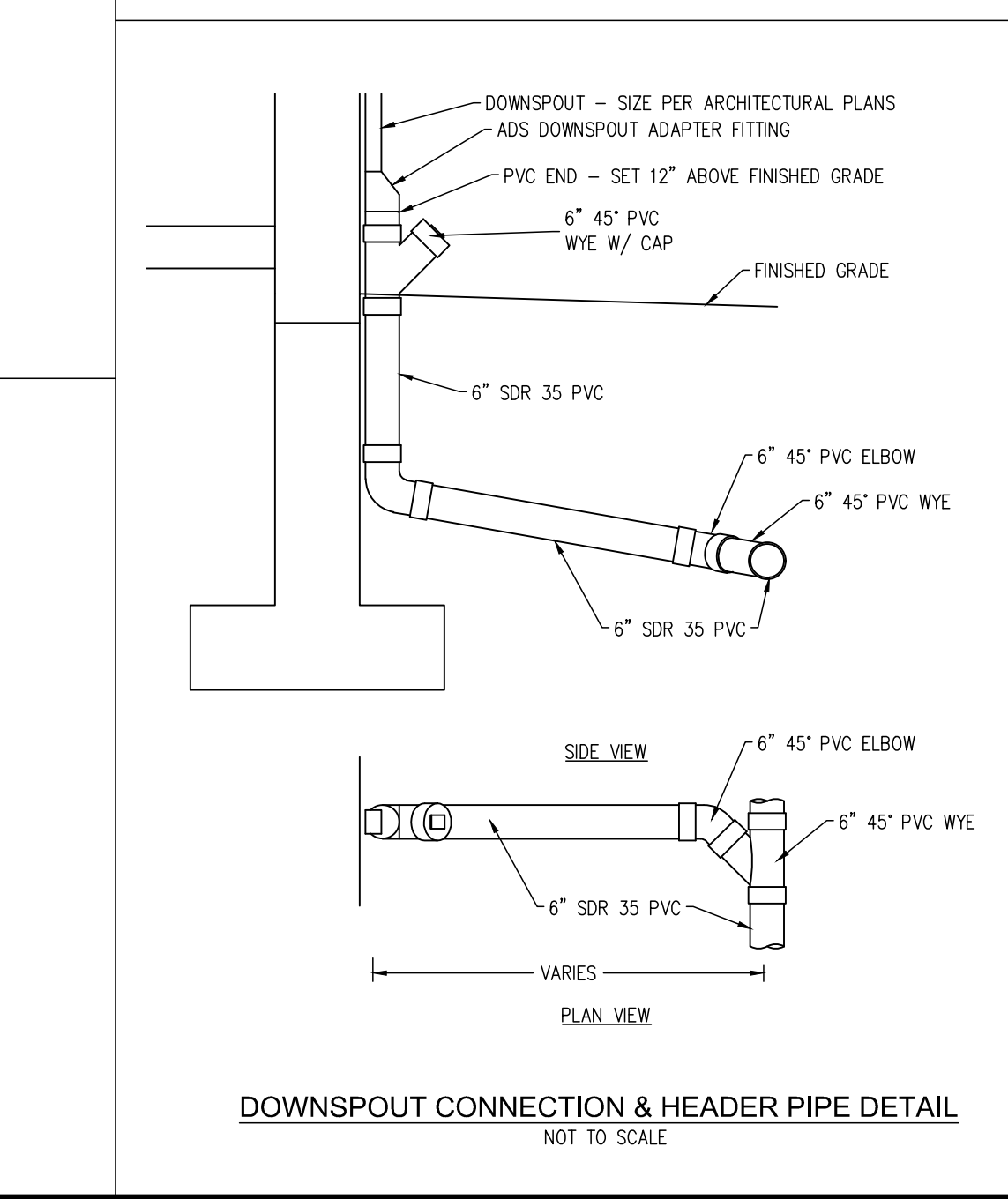
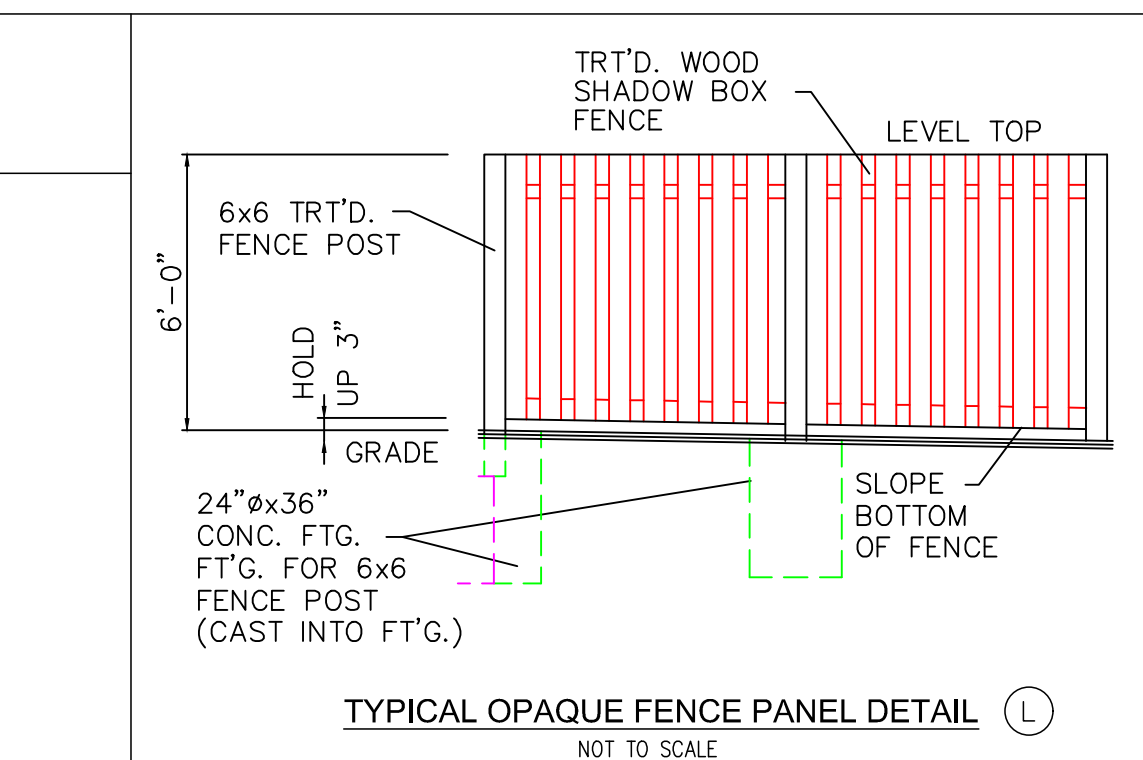
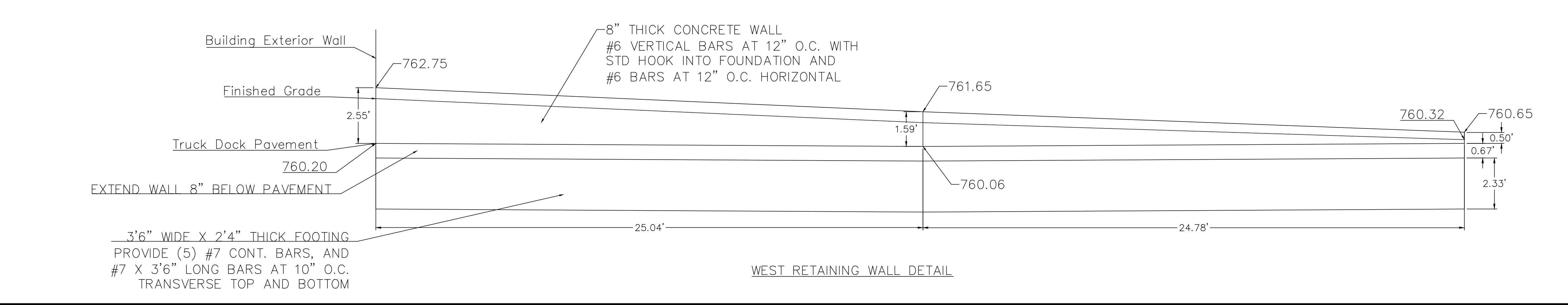
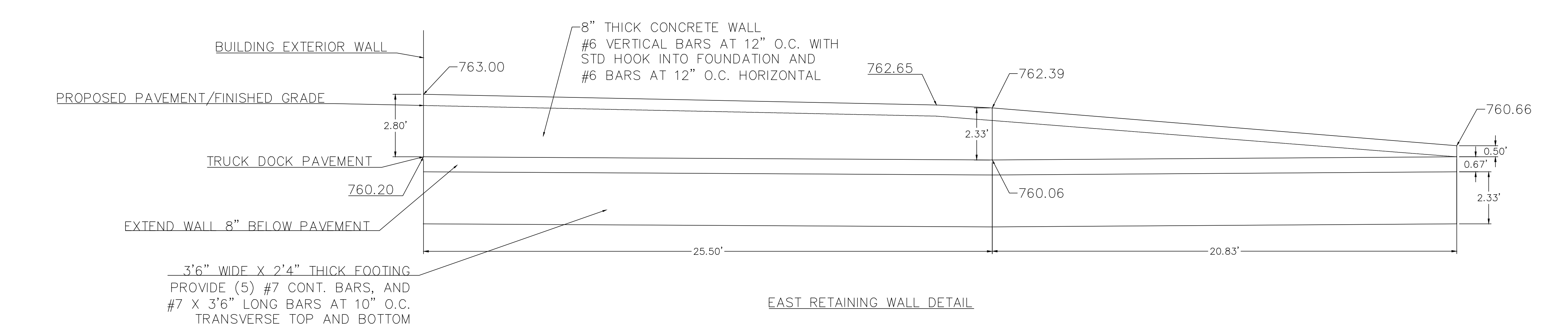
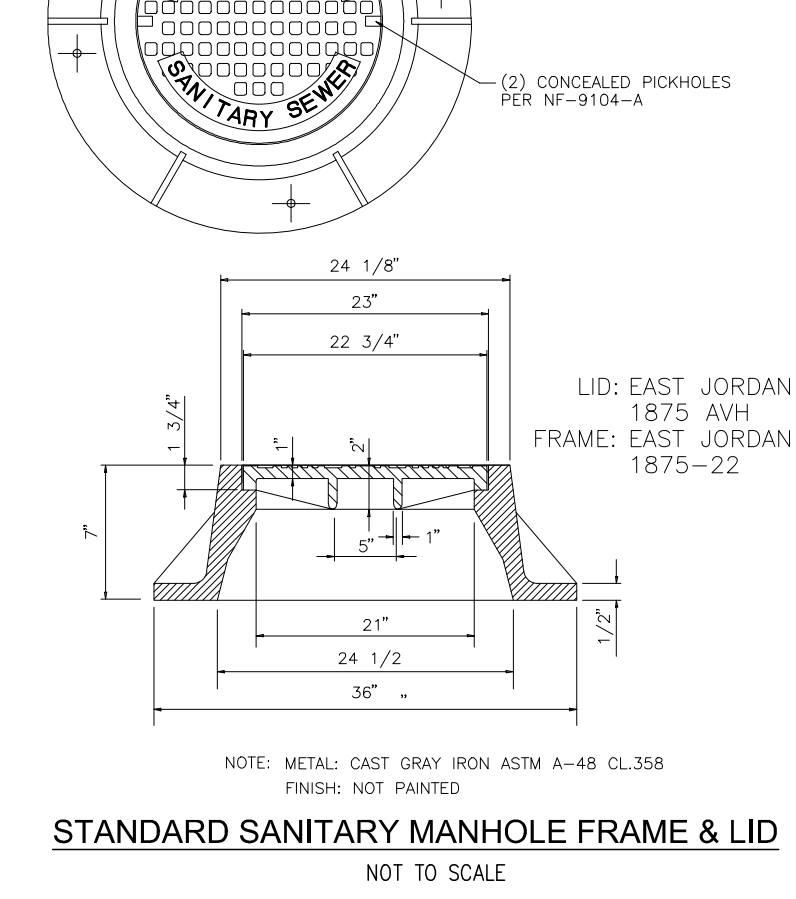
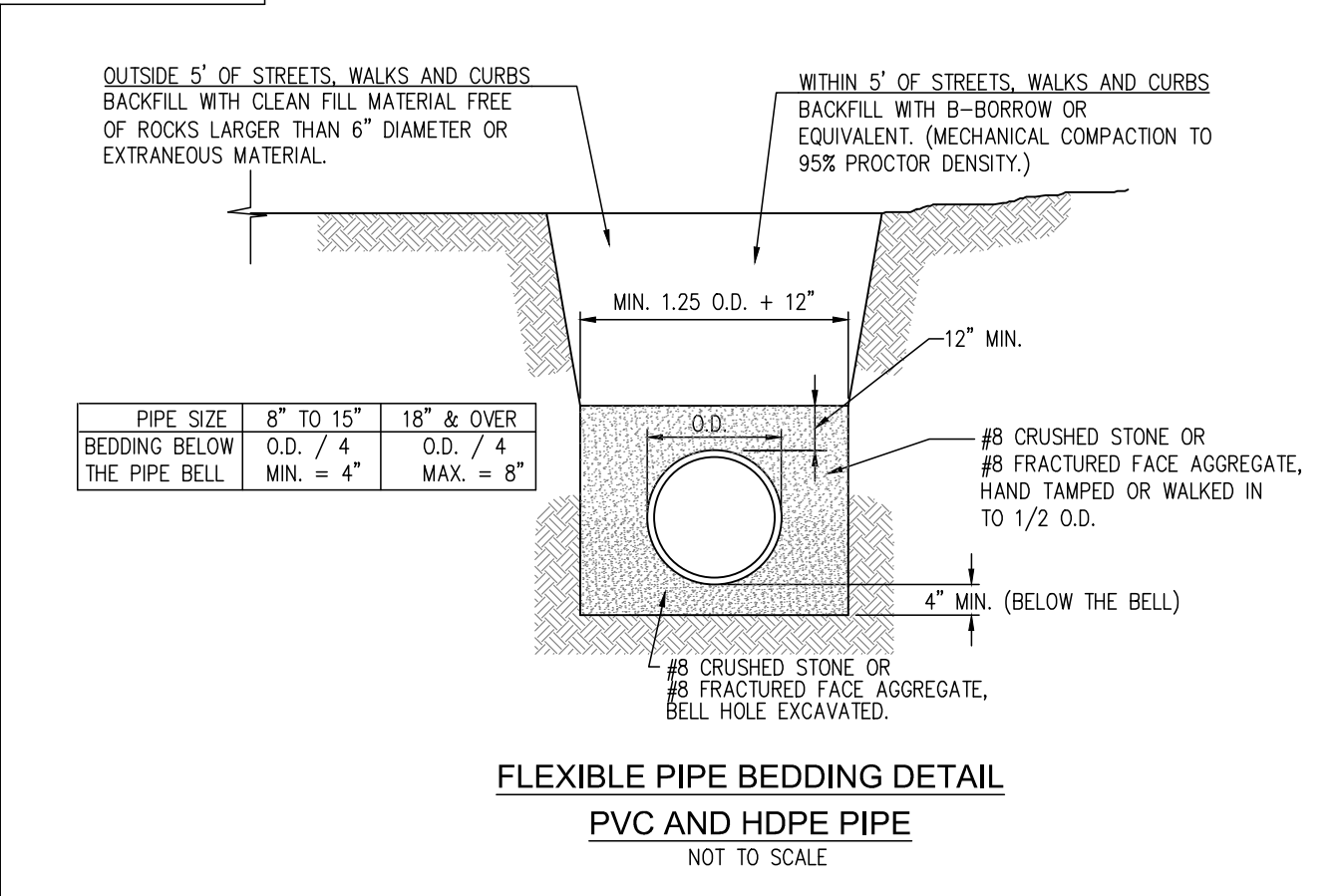
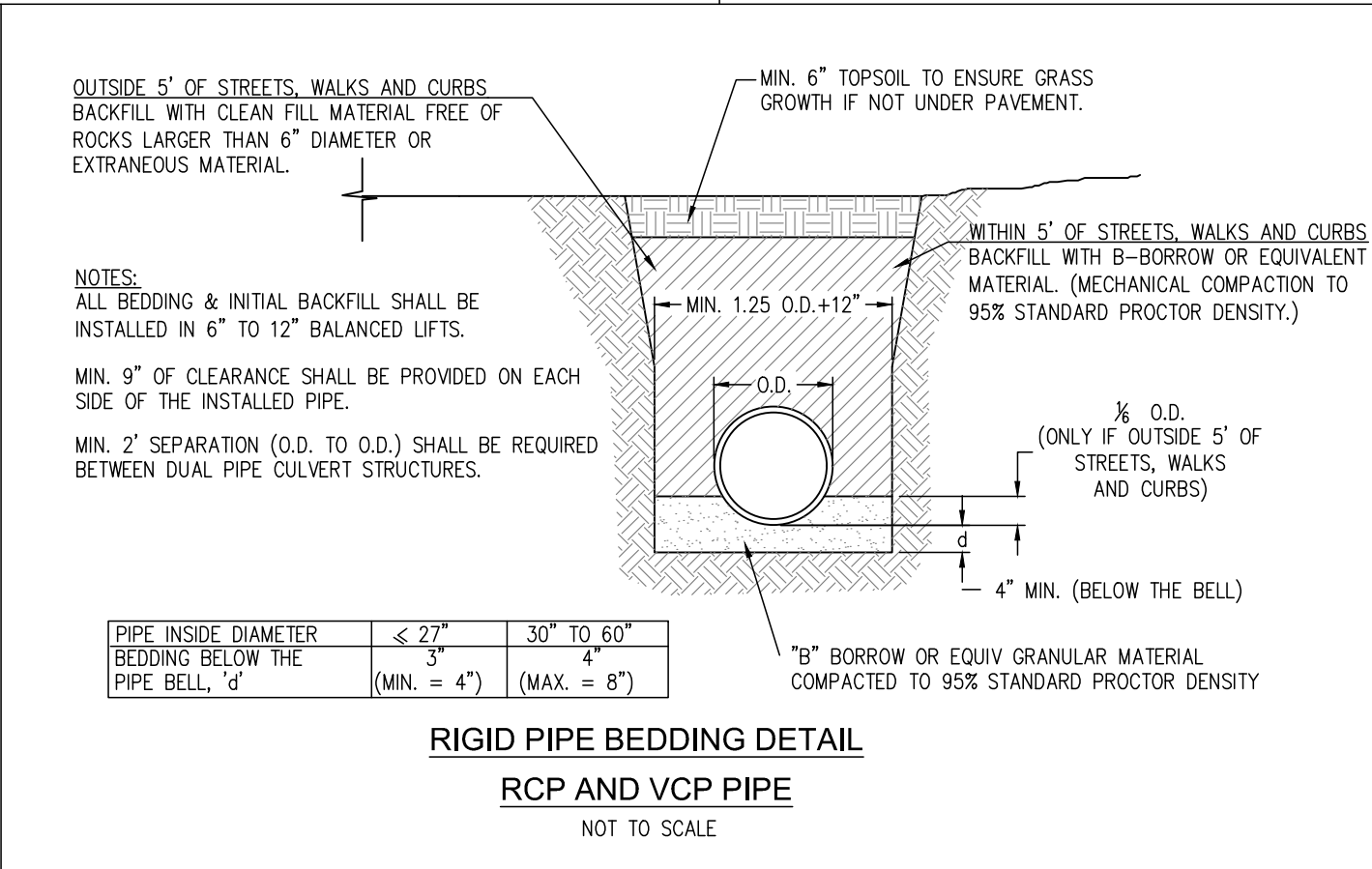
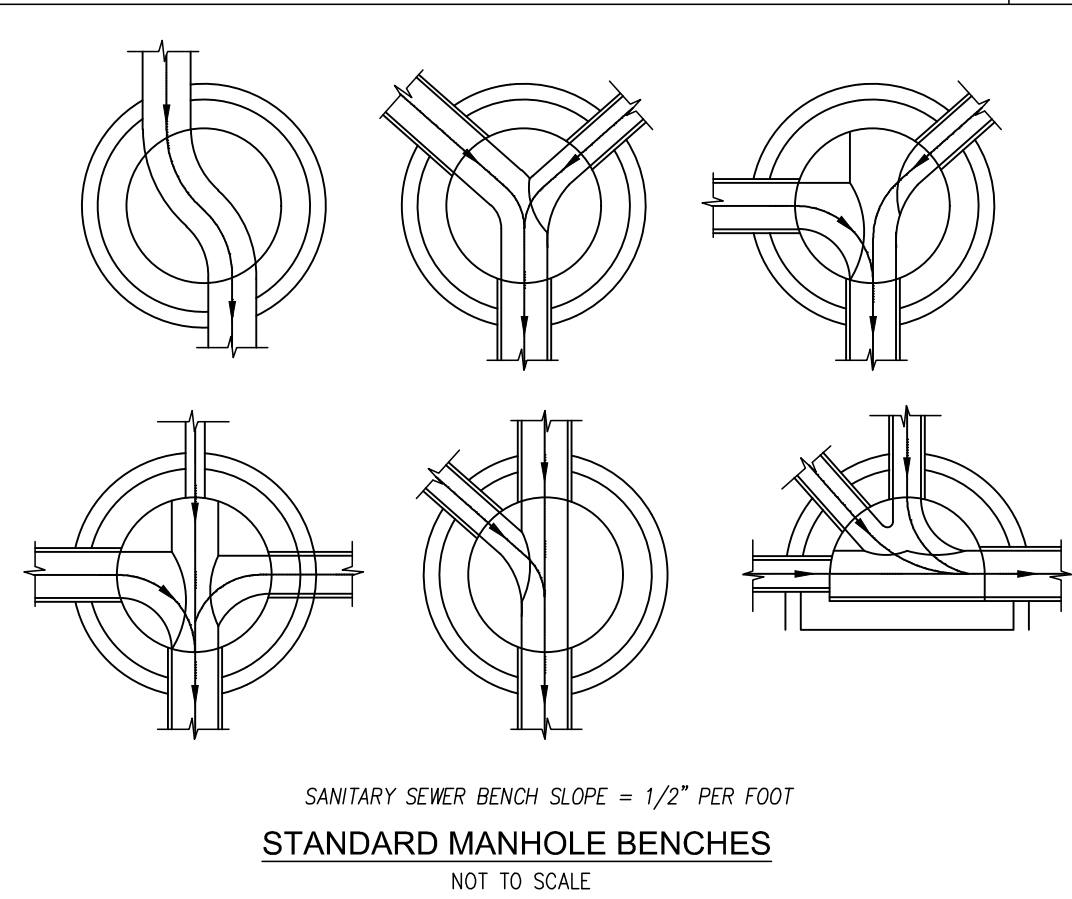


NO.	DATE	REVISIONS	BY	APPR.
1	05.21.24	REVISIONS PER CITY OF FRANKLIN REVIEW COMMENTS	BTJ	GM
2	05.09.24	REVISIONS PER JOB OUTSIDE REVIEW COMMENTS	BTJ	GM
3				
4				
5				
6				
7				
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9				



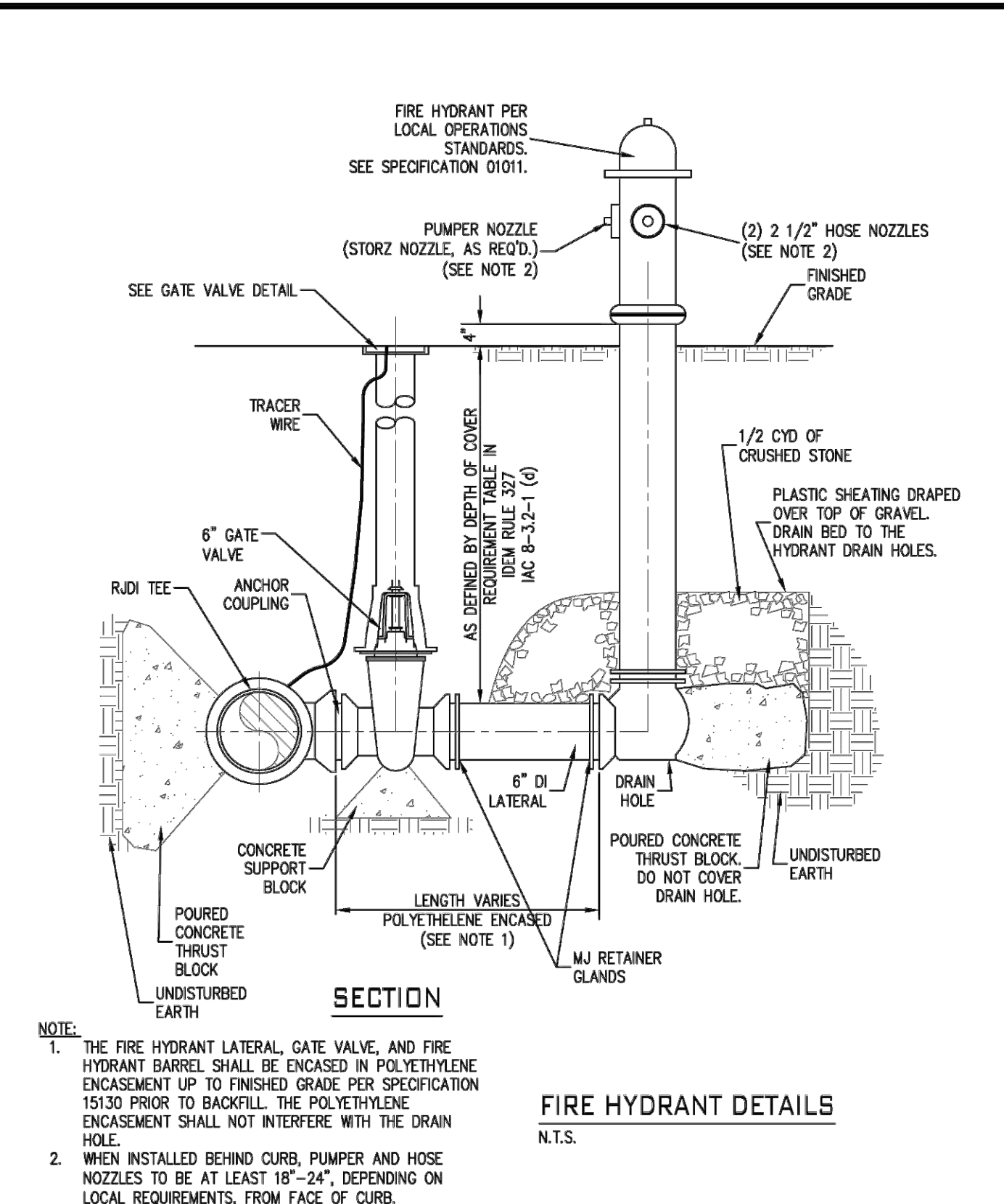
PRECAST CONCRETE END SECTION TABLE

DIA.	WALL	OR 7	WT. SEC.	A	B	C	D	E	DIA.+1	R-1	SKIRT		
12	2	1 1/2	530	4	24	48	7/8	72	7/8	24	13	10 1/16	3 1/2
15	2 1/4	2	740	6	27	46	7/8	73	30	16	12 1/2	3 1/2	4
18	2 1/2	2 1/2	990	9	27	46	7/8	73	36	19	15 1/2	4	4
21	2 1/4	2 1/4	1280	9	35	38	7/8	73	42	22	16 7/8	4	4
24	2 1/2	2 1/2	1550	9 1/2	43 1/2	30	73 1/2	48	25	16 11/16	4 1/2	4	
27	2 1/2	2 1/2	1930	10 1/2	48	25 1/2	73 1/2	54	28	17 3/4	4 1/2	4	
30	3	3	2180	12	54	19 3/4	73 3/4	60	31	18 5/16	5	5	
33	3 3/8	3 3/8	3150	13 1/2	58 1/2	39 1/4	97 3/4	66	34	23 3/4	5 1/2	5 1/2	
36	3 1/2	3 1/2	4100	15	63	34 3/4	97 3/4	72	37	24 7/16	5 1/2	5 1/2	
42	3 3/4	3 3/4	5380	21	63	35	98	78	43	27 1/4	5 1/2	5 1/2	
46	4 1/4	4 1/4	6550	24	72	26	98	84	49	28 7/8	5 3/4	5 3/4	
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66	5 1/2	5 1/2	10630	24	78	21	99	102	67	35 11/16	7 1/4	7 1/4	
72	6	6	12520	34	78	21	99	108	73	38 5/8	7 3/4	7 3/4	
78	6 1/2	6 1/2	14430	24	78	21	99	114	79	41 15/16	8 1/2	8 1/2	
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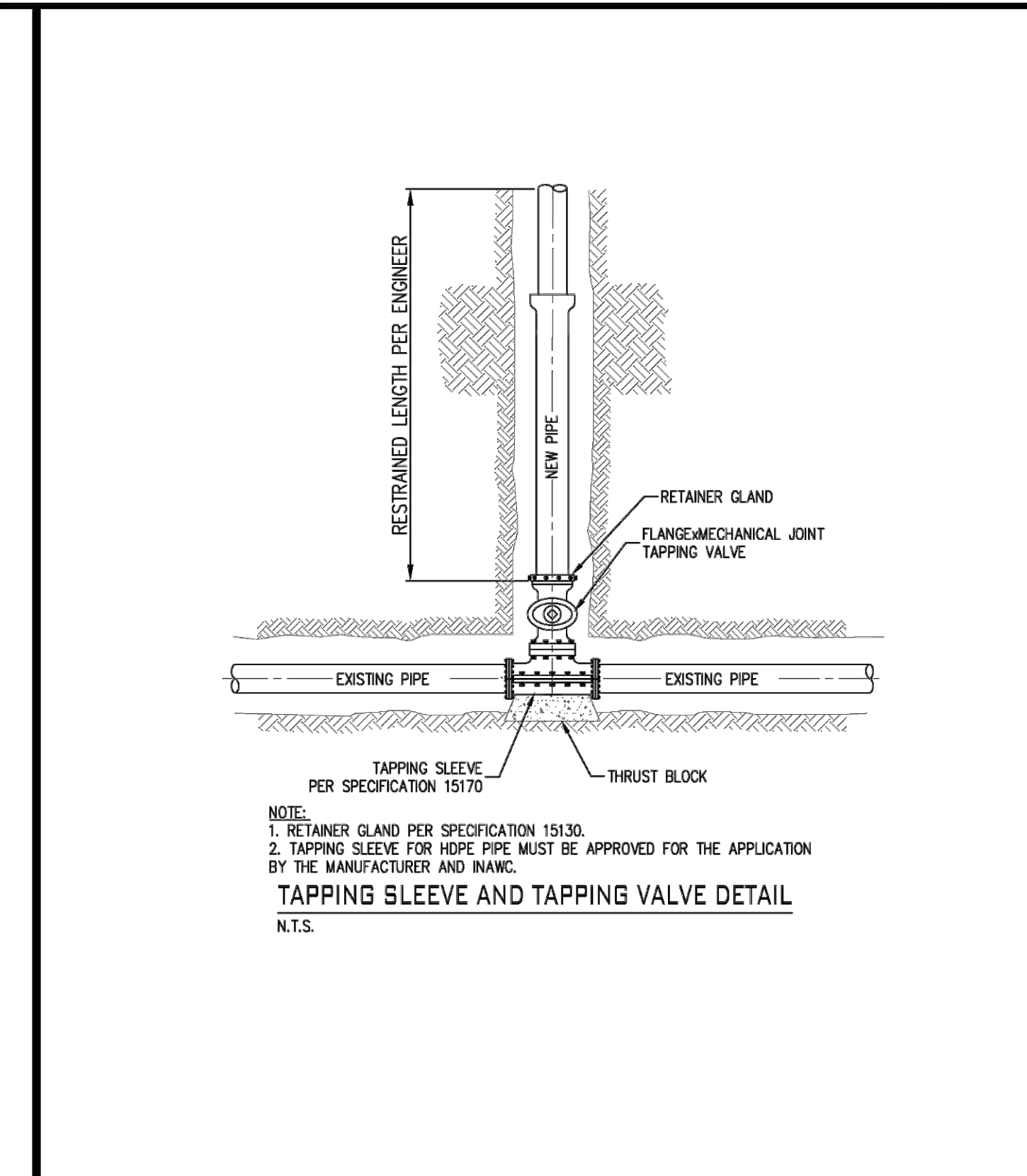
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NO.	DATE	REVISIONS
9		
8		
7		
6		
5		
4		
3		
2	05.21.24	REVISIONS PER CITY OF FRANKLIN REVIEW COMMENTS
1	05.09.24	REVISIONS PER JOB OUTSIDE REVIEW COMMENTS



STANDARD DETAIL
FIRE HYDRANT DETAIL

DATE: JANUARY, 2018 DRAWN BY: S. FORD
LATEST REV: JULY, 2018 APP'D BY: E.N.



STANDARD DETAIL
TAPPING SLEEVE AND TAPPING VALVE

DATE: JANUARY, 2018 DRAWN BY: S. FORD
LATEST REV: JANUARY, 2018 APP'D BY: E.N.

PLAN VIEW
4.0 ft - 10.0 ft (1.22 m - 3.05 m)

CROSS SECTION
O, R, S, H, W

PROFILE VIEW
H1, H2

PIPE Ø, in (mm)	H1-H2, in (mm)	W, in (mm)	O, in (mm)	S, in (mm)	R, in (mm)	PRODUCT #
6 (150)	3.00 - 24.00 (76 - 610)	0.46 (13)				0690DSXL
8 (200)	3.00 - 24.00 (76 - 610)	0.61 (15)				0890DSXL
10 (250)	3.00 - 24.00 (76 - 610)	0.73 (19)				1090DSXL
12 (300)	3.50 - 24.00 (89 - 609)					1290DSXL
12 (300)	24.01 - 36.00 (610 - 914)	1.15 (29)				1290DSDTXL
15 (375)	3.75 - 24.00 (95 - 609)					1590DSXL
15 (375)	24.01 - 36.00 (610 - 914)	1.30 (33)				1590DSDTXL
18 (450)	4.00 - 24.00 (102 - 609)		5.00 (127)	2.25 (57)	0.32 (8)	1890DSXL
18 (450)	24.01 - 36.00 (610 - 914)	1.57 (40)				1890DSDTXL
24 (600)	4.25 - 24.00 (121 - 609)					2490DSXL
24 (600)	24.01 - 36.00 (610 - 914)	1.86 (40)				2490DSDTXL
30 (750)	5.00 - 24.00 (127 - 609)	2.55 (65)				3090DSXL
30 (750)	24.01 - 36.00 (610 - 914)					3090DSDTXL
36 (900)	5.25 - 24.00 (133 - 609)					3690DSXL
36 (900)	24.01 - 36.00 (610 - 914)	2.85 (72)				3690DSDTXL

NOTES:
1. SEE GRATING DETAILS FOR SURFACE TREATMENT OPTIONS
2. H1 AND H2 VARY BASED ON PROJECT SPECIFICATIONS AND MAY NOT RESEMBLE THE IMAGES SHOWN ABOVE.

REV. 1 Updates to dimensions KJS 05/19/2023
DESCRIPTION BY MM/DD/YY CHK'D

ADVANCED DRAINAGE SYSTEMS, INC. (ADS) HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

Duraslot XL Pipe Custom Slot Height
DRAWING NUMBER: STD-1401B

4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

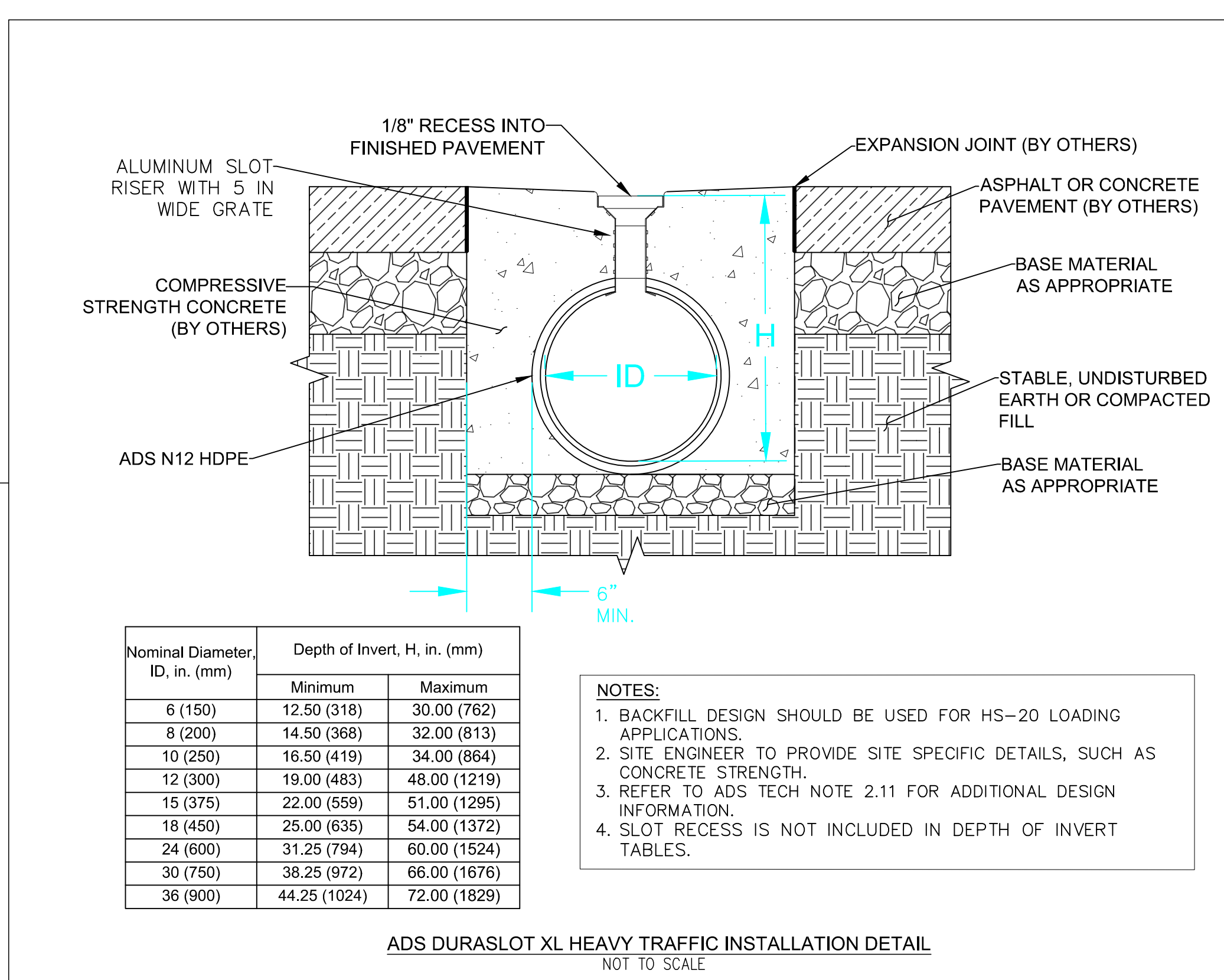
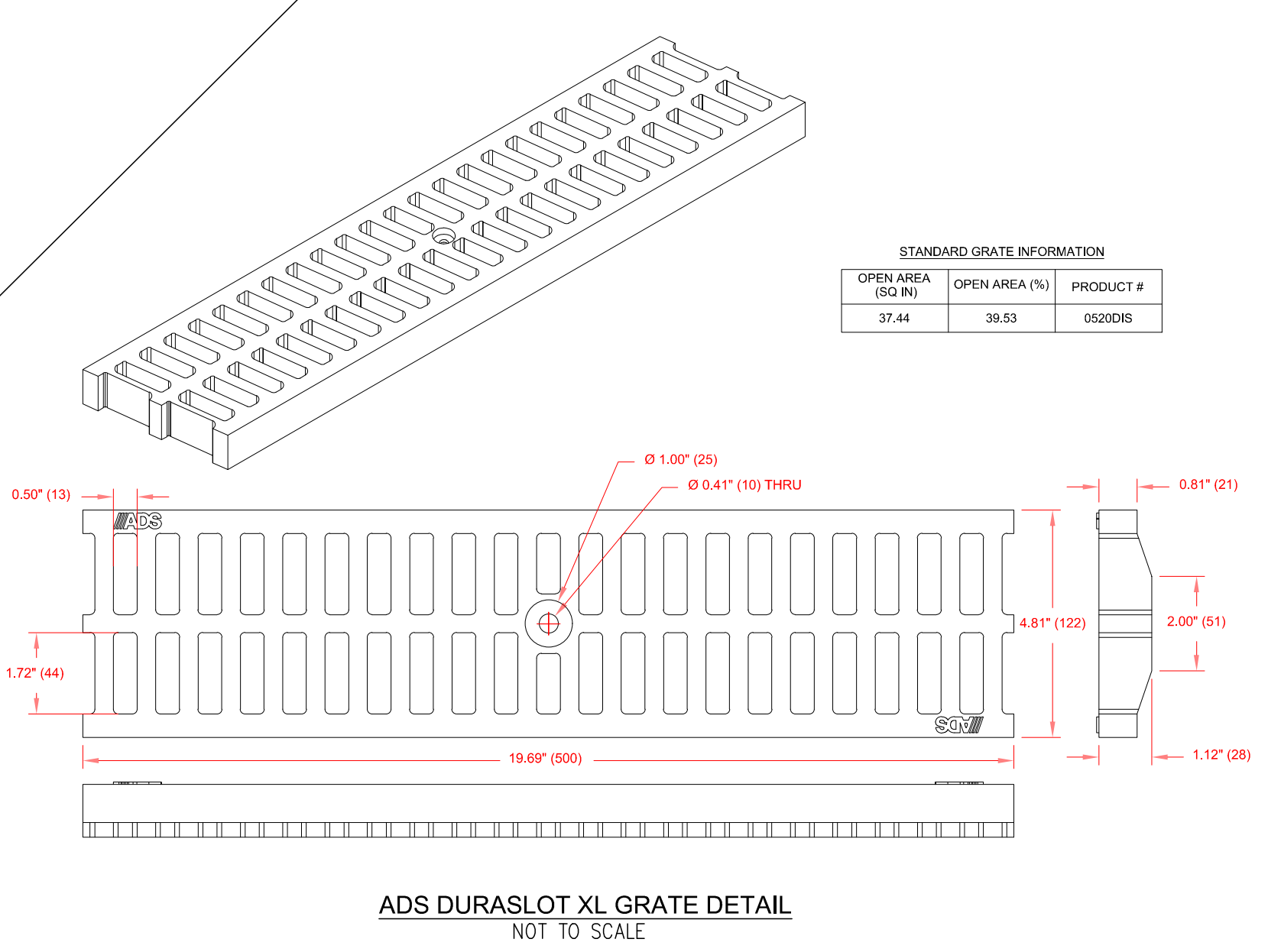
SPIGOT END CAP FOR 6 & 10" PIPE DIAMETER

END CAP FOR DURASLOT XL DIMENSIONS

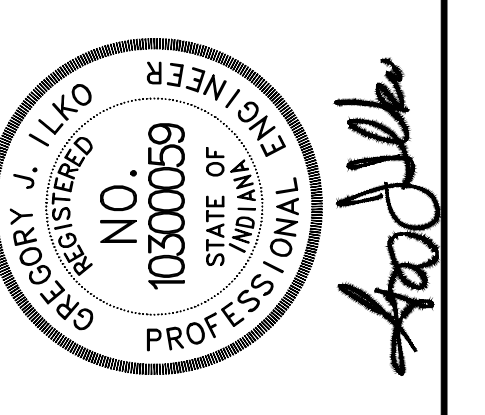
PIPE Ø, in (mm)	A, in (mm)	B, in (mm)	C, in (mm)	D, in (mm)	E, in (mm)	PRODUCT # (Std./Cust. Slot)
6 (150)	4.50 (114)	5.12 (130)	7.63 (194)	3.00 (76)	2.50 (64)	0633DSXL/ 0693DSXL
8 (200)	4.25 (108)	6.95 (177)	N/A	2.50 (64)	2.50 (64)	0833DSXL/ 0893DSXL
10 (250)	5.00 (127)	9.88 (251)	12.13 (308)	3.50 (89)	2.50 (64)	1033DSXL/ 1093DSXL
12 (300)	5.76 (146)	11.56 (294)	N/A	4.25 (108)	2.50 (64)	1233DSXL/ 1293DSXL
15 (375)	7.77 (197)	N/A	N/A	6.25 (159)	2.50 (64)	1533DSXL/ 1593DSXL
18 (450)	8.04 (204)	N/A	N/A	6.50 (165)	2.50 (64)	1833DSXL/ 1893DSXL
24 (600)	9.45 (240)	N/A	N/A	8.00 (200)	2.50 (64)	2433DSXL/ 2493DSXL
30 (750)	N/A	N/A	N/A	N/A	N/A	3033DSXL/ 3093DSXL
36 (900)	N/A	N/A	N/A	N/A	N/A	3633DSXL/ 3693DSXL

NOTES:
1. ALL FITTING DIMENSIONS ARE FOR REFERENCE ONLY.
2. ALL HARDWARE REQUIRED FOR ASSEMBLY IS INCLUDED WITH THE PURCHASE OF A COUPLER BAND, INCLUDING A SLOT END CAP.
3. THE TAYLOR END PLUG IS UTILIZED AS A PERMANENT END TREATMENT WITH DURASLOT PIPE.

ADS DURASLOT XL END CAP
NOT TO SCALE



DIRECTORY PATH : R:\Active\universe\hobbes\JCO_Recycle_Center\Design\CAD\Plans
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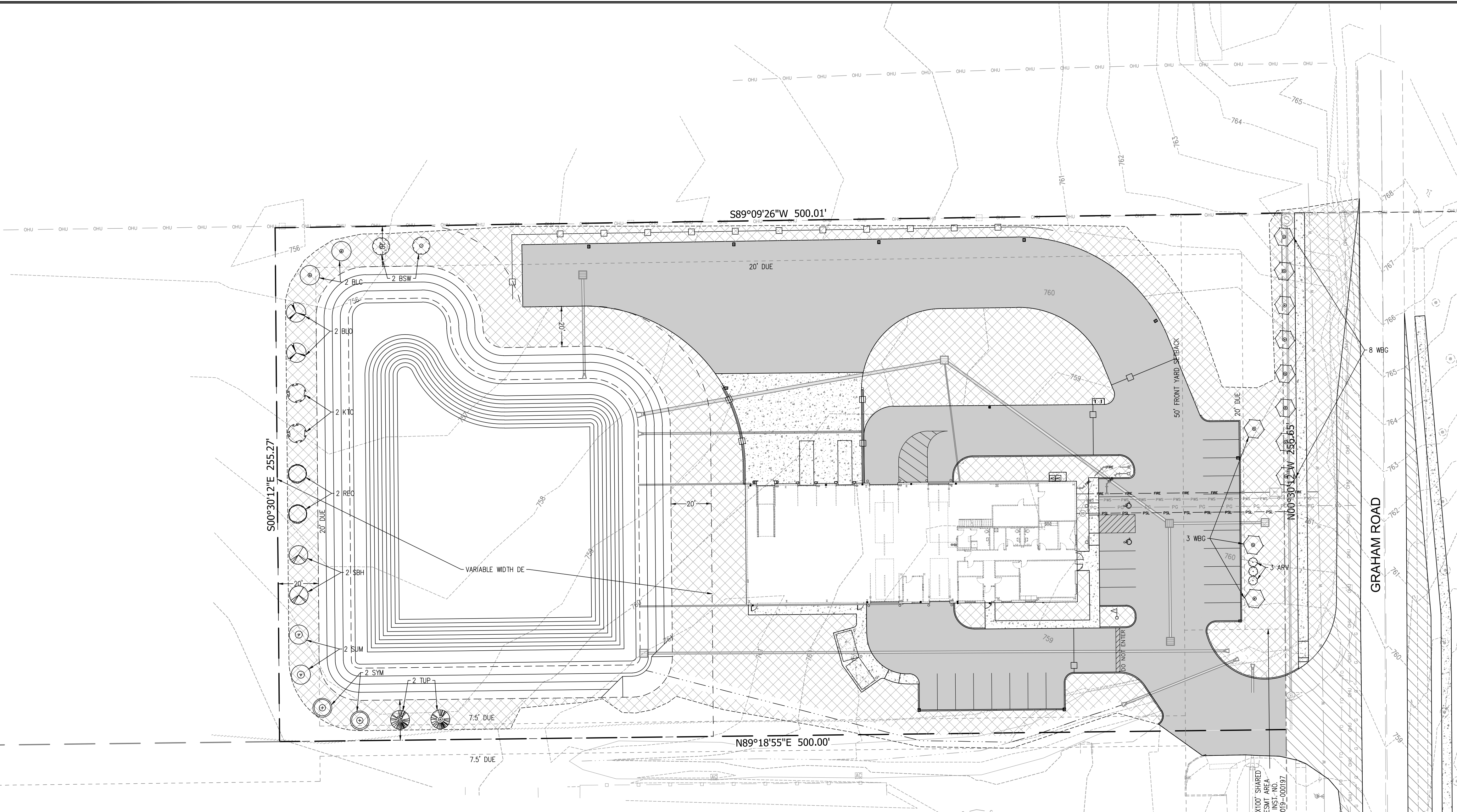


9							
8							
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6							
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REVISIONS PER CITY OF FRANKLIN REVIEW COMMENTS
 REVISIONS PER JOB OUTSIDE REVIEW COMMENTS

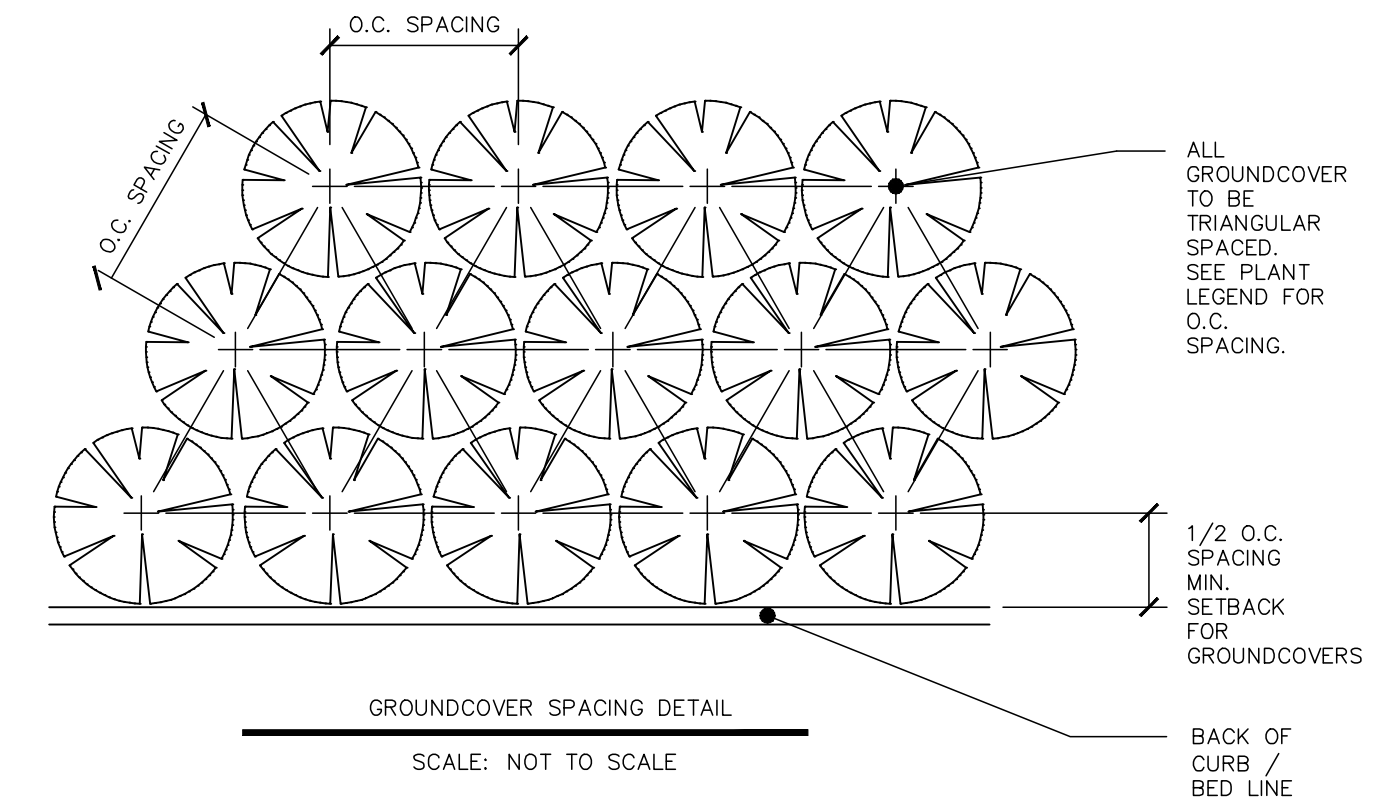
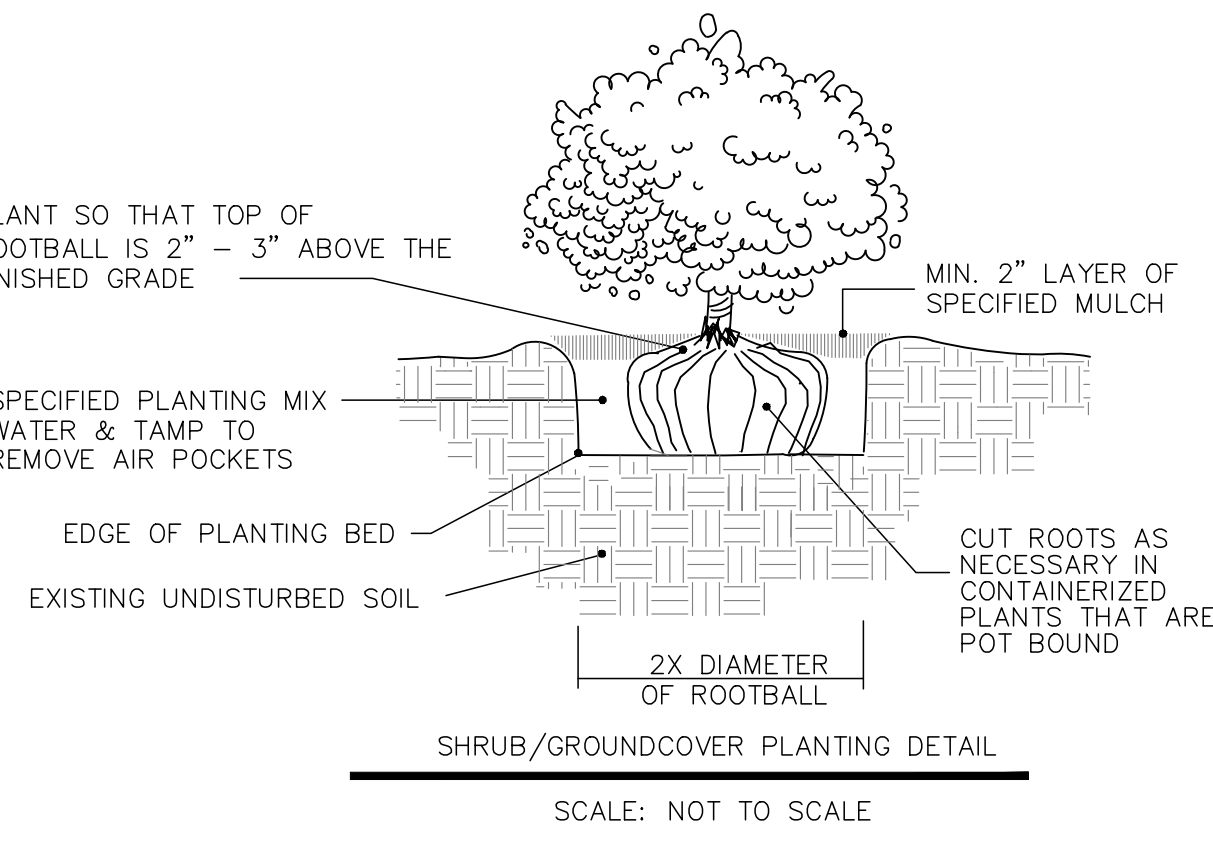
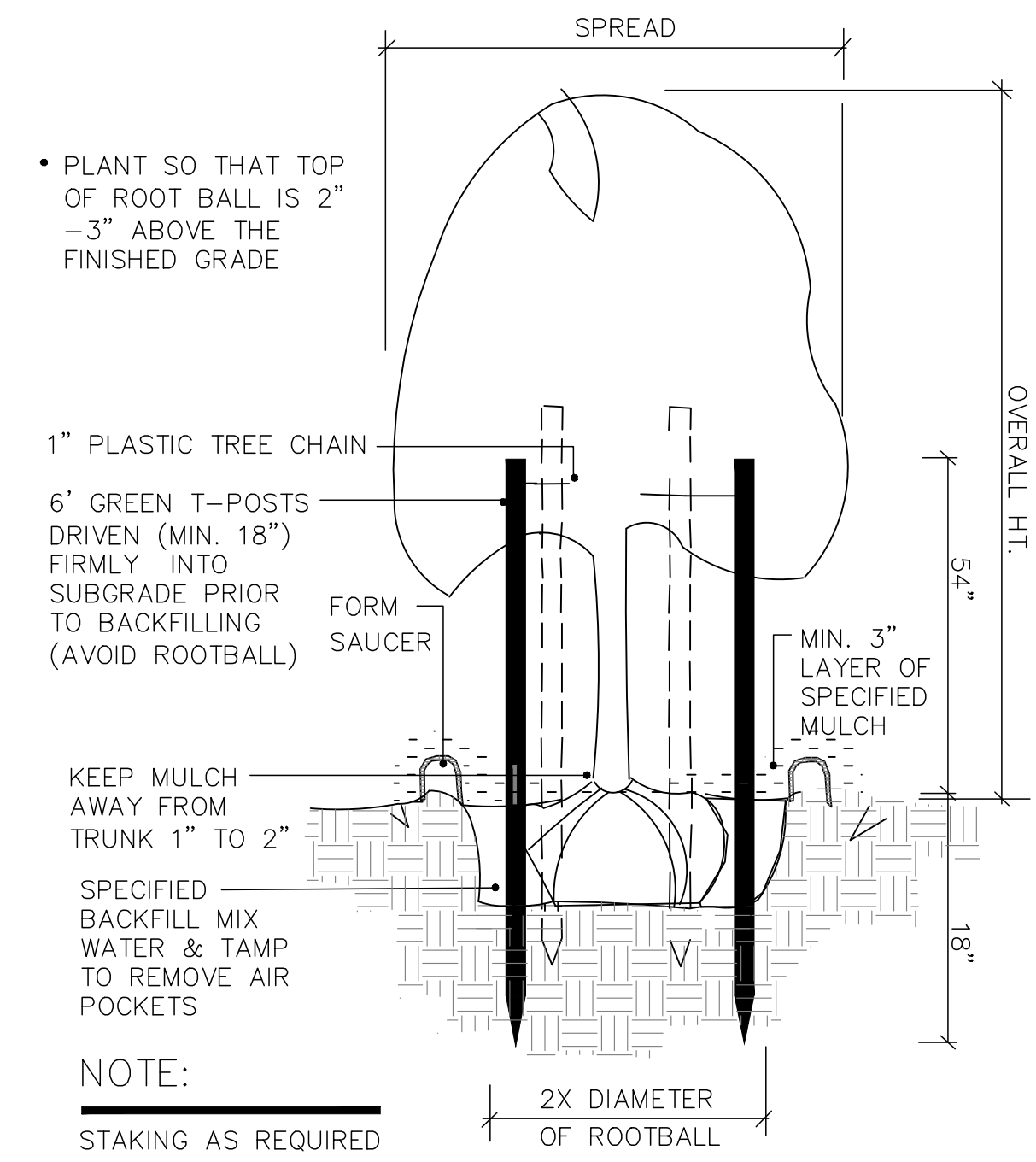
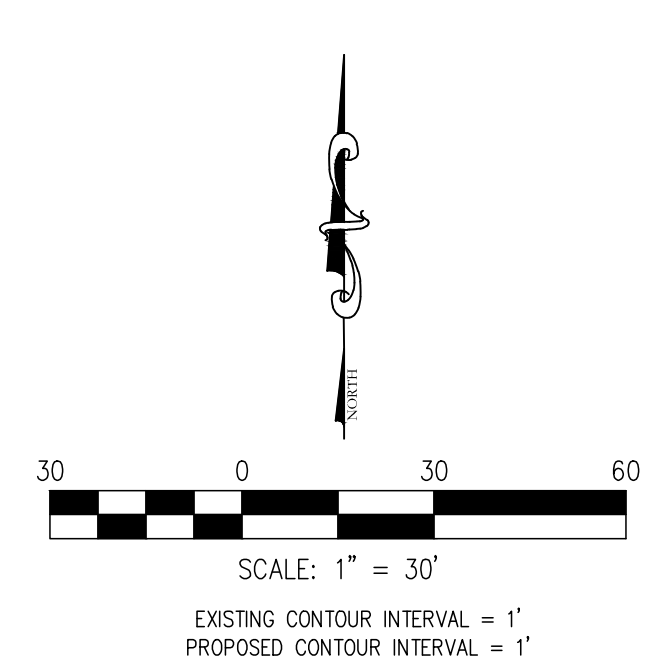
DATE: 05.21.24, 05.09.24

NO. 1



ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, CITY OR COUNTY OFFICIALS

NOTE: NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.



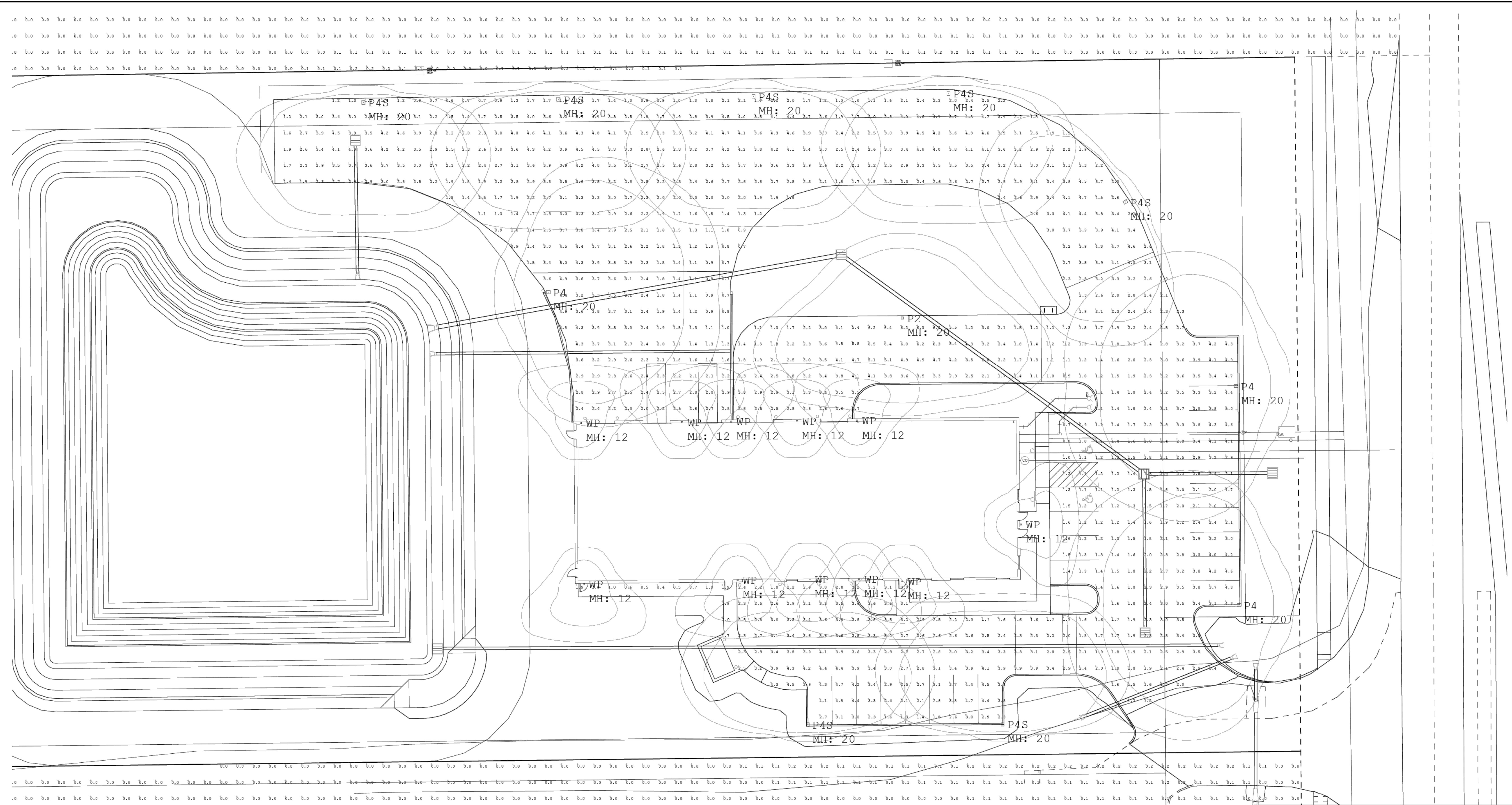
SHADE TREES		SHADE TREES	
WBG	11 WILDFIRE BLACK GUM NYSSA SYLVATICA 2.5" CALIPER 6" CLEAR TRUNK	SUM	2 SUGAR MAPLE ACER SACCHARUM 2.5" CALIPER 6" CLEAR TRUNK
BSW	2 BASSWOOD TILIA AMERICANA 2.5" CALIPER 6" CLEAR TRUNK	SYM	2 SYCAMORE PLATANUS OCCIDENTALIS 2.5" CALIPER 6" CLEAR TRUNK
BLC	2 BLACK CHERRY PRUNUS SEROTINA 2.5" CALIPER 6" CLEAR TRUNK	TUP	2 TULIP POPLAR LIRIODENDRON TULIPIFERA 2.5" CALIPER 6" CLEAR TRUNK
BLO	2 BLACK OAK QUERCUS VELUTINA 2.5" CALIPER 6" CLEAR TRUNK	SHRUBS	
KTC	2 KENTUCKY COFFEE GYMNOCLADUS DIODICUS 2.5" CALIPER 6" CLEAR TRUNK	ARV	3 ARROWWOOD VIBURNUM VIBURNUM DENTATUM 3 GAL. 72" O.C.
REO	2 RED OAK QUERCUS BOREALIS 2.5" CALIPER 6" CLEAR TRUNK	EROSION CONTROL	
SBH	2 SHAGBARK HICKORY CARYA OVATA 2.5" CALIPER 6" CLEAR TRUNK	REVIEMENT RIPRAP (SEE DETAIL - EROSION CONTROL PLAN SHEET 900)	
GROUNDCOVER		SEED AND MULCH S.F. ± 40.647 LOW MAINTENANCE MIX AS AVAILABLE FROM INDIANA SEED SOLUTIONS 65% TALL FESCUE, 25% PRG, 10% CR FESCUE	

LANDSCAPE NOTES

- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL VEGETATION AND LEAVING ALL LANDSCAPE AREAS AT TWO INCHES BELOW FINAL GRADE. THE LANDSCAPE CONTRACTOR WILL PROVIDE AND SPREAD A COMPACTED TWO INCH DEPTH OF LOAMY TOPSOIL IN ALL TURF AREAS - BRINGING THESE AREAS TO TOP OF CURB/FINAL GRADE (COMPACTED). THE LANDSCAPE CONTRACTOR WILL PROVIDE AND INSTALL A FOUR INCH DEPTH OF PLANTING MIX TO ALL PLANTING BEDS - CROWNING FOR PROPER DRAINAGE. (SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.)
- A THREE INCH DEPTH OF SHREDDED HARDWOOD BARK MULCH WILL BE USED AS A TOP DRESSING FOR ALL PLANTING BEDS AND TREE RINGS.
- LANDSCAPE CONTRACTOR SHALL MAKE OWN PLANT QUANTITY TAKEOFFS USING DRAWINGS, SPECIFICATIONS AND PLANT SCHEDULE. PLANT SCHEDULE REQUIREMENTS (I.E. SPACING) DICTATE, UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE DESIGNER. LANDSCAPE CONTRACTOR TO VERIFY BED MEASUREMENTS AND INSTALL APPROPRIATE QUANTITIES AS GOVERNED BY THE THE PLANT SPACING PER THE SCHEDULE. ENSURE ALL MINIMUM REQUIREMENTS OF THE LOCAL GOVERNING AUTHORITY ARE MET (I.E. MINIMUM PLANT QUANTITIES).
- NO SUBSTITUTIONS OF PLANT MATERIALS WILL BE ALLOWED. IF PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE DESIGNER IN WRITING (VIA PROPER CHANNELS). PLANTS MAY BE INSPECTED AND APPROVED OR REJECTED ON THE JOBSITE BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE LANDSCAPE MAINTENANCE OF THIS PROJECT UNTIL FINAL ACCEPTANCE. TURF AREAS WILL NOT BE ACCEPTED UNTIL THEY AREA AT A MINIMUM OF 1-1/2 INCHES TALL, AND NO BARE AREAS LARGER THAN 12 SQUARE INCHES.
- TREES SHALL BE PLANTED AT LEAST TWO AND ONE-HALF FEET (2'-6") FROM SIDEWALK OR CURB EDGE.

DIRECTORY PATH : F:\Active\Users\Bates\JACO Recycle Center Design\CAD\Plans
 DATE/USER : 5/20/2024 5:44 PM / Bhatnagar





1 SITE LIGHTING AND PHOTOMETRIC PLAN
 SCALE: 1/16" = 1'-0" (24 x 36 sheet)

National Lighting Vendor:
 For pricing and technical assistance contact: Rob Thomson of
 CBMC INC, tel# 317-828-4119 / rthomson@cbmcinc.com

All electrical work shall comply with National, State, and Local codes including and not limited to the National Electric Code, NFPA 101 Life Safety Code, ASHREA and/or IECC Energy Codes.

The information contained in this document is proprietary to CBMC Lighting Solutions. This document is prepared for a specific site and incorporates calculations based on data available from the client at this time. By accepting and using this document, the recipient agrees to protect its contents from further dissemination, [other than that within the organization necessary to evaluate such specification] without the written permission of CBMC Lighting Solutions. The contents of this document are not to be reproduced or copied in whole or in part without the written permission of CBMC Lighting Solutions. copyright © 2020 CBMC Lighting Solutions all rights reserved.

CBMC LIGHTING SOLUTIONS

5855 KOPETSKY DR. SUITE G. | INDIANAPOLIS, IN 46217
 317-780-8350 | WWW.CBMCINC.COM



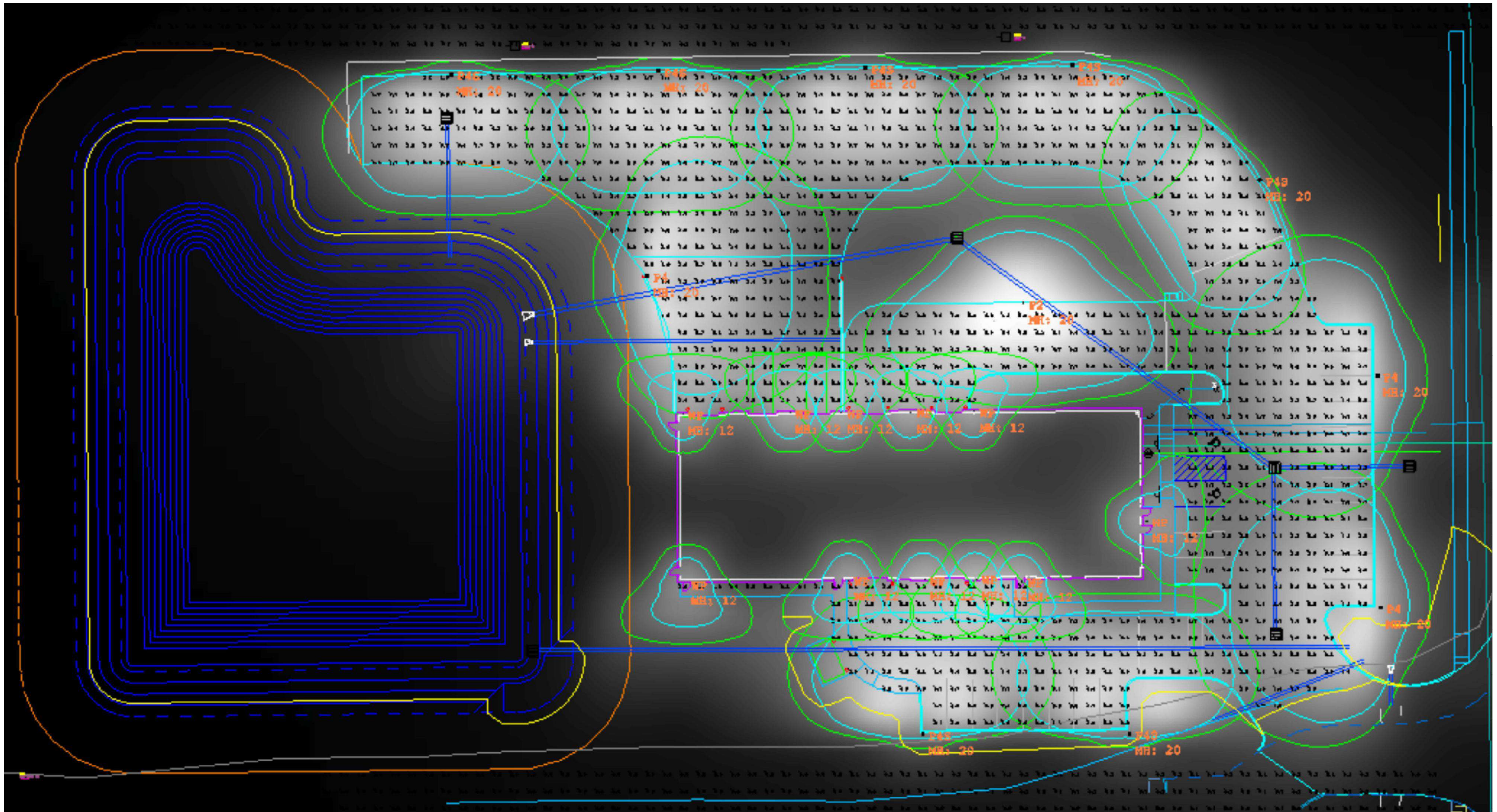
This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with IESNA approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and LED lumen package, location adjustments, and other variable field conditions.

Contractor to check and verify all dimensions on site before commencing any work shown.

**JOHNSON COUNTY
 RECYCLE CENTER**

SITE LIGHTING & PHOTOMETRIC PLAN

Scale:	1/16"=1'-0"	Project No:	E00	Revision
Date:	4/05/24	Drawing No:	E00	1
Drawn By:	FG			
Checked By:	RT			



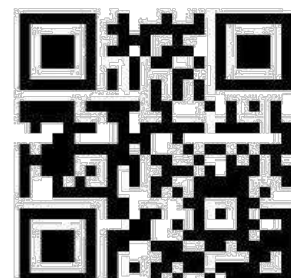
1 GREY SCALE RENDERING
SCALE: NONE

National Lighting Vendor:
For pricing and technical assistance contact: Rob Thomson of
CBMC INC, tel# 317-828-4119 / rthomson@cbmcinc.com

All electrical work shall comply with National, State, and Local codes including and not limited to the National Electric Code, NFPA 101 Life Safety Code, ASHREA and/or IECC Energy Codes.
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This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with IESNA approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and LED lumen package, location adjustments, and other variable field conditions.

Contractor to check and verify all dimensions on site before commencing any work shown.

**JOHNSON COUNTY
RECYCLE CENTER**

GREY SCALE RENDERING

Scale:	NONE	Project No:	E01	Revision
Date:	4/05/24	Drawing No:	E01	
Drawn By:	FG	1		
Checked By:	RT			

June 4, 2024

Ms. Melissa Miller
Lancer Associates
145 North East Street
Indianapolis, Indiana 46204

Re: Addendum of Pavement Design
Johnson County Recycle Center
County Road 250 East
Franklin, Indiana
Patriot Project No.: 24-0566-01G

Dear Melissa:

Submitted here is the addendum of a pavement design for the above referenced project. This addendum letter has been prepared in accordance with your request for a pavement design for the Johnson County Recycle Center in Franklin, Indiana.

Pavement Design Evaluation

The near surface or shallow subgrade soils encountered within the proposed pavement areas generally consist of medium stiff clays and loose to medium dense sands, which if properly prepared are suitable for pavement support. **However, very soft clays were encountered from 0 to 6 feet below the ground surface in some of the borings. Soft clays and other unsuitable materials must be removed and replaced with well-compacted structural fill.**

If construction is performed during a wet or cold period, the contractor will need to exercise care during the grading and fill placement activities in order to achieve the necessary subgrade soil support for the pavement section (Refer to Section 5.0 "Construction Considerations"). The base soil for the pavement section will need to be firm and dry. The subgrade should be sloped properly in order to provide good base drainage. To minimize the effects of groundwater or surface water conditions, the base section for the pavement system should be sufficiently high above adjacent ditches and properly graded to provide pavement surface and pavement base drainage.

Our recommended minimum pavement design sections provided below are based on a soil support evaluation performed in accordance with generally accepted procedures set forth by the American Association of State Highway and Transportation Officials (AASHTO) "*Guide for Design of Pavement Structures, 1993*". **No traffic study was conducted in the area around the site. Therefore, we estimated the traffic loading for the pavement design values based on our past experience and knowledge of vehicle types anticipated provided by the Client:**

- Design Life or 15 years
- 18-kips Equivalent Single Axle Loading (ESAL) estimated design value:
 - Rigid Pavement (3,000 passenger vehicle, 10 box truck, 2 trash truck, and 1 semi-truck passes per day) = 247,369
 - Flexible Pavement (3,000 passenger vehicle, 10 box truck, 2 trash truck, and 1 semi-truck passes per day) = 225,633
- Initial Serviceability:
 - Flexible Pavement = 4.2
 - Rigid Pavement = 4.5
- Terminal Serviceability of 2.0 (for both flexible and rigid pavement)
- Reliability of 80 percent (%) (for both flexible and rigid pavement)
- Standard Deviation
 - Flexible Pavement = 0.45
 - Rigid Pavement = 0.35
- Estimated California Bearing Ratio (CBR) of 3
- The crushed stone base course will not contain more than 10 percent (%) fines and will be compacted to at least 100 percent (%) of the maximum Standard Proctor dry density.
- Asphalt will be placed and compacted in accordance with the INDOT 2016 Standard Specification Requirements.
- Good to Excellent Drainage Condition – Assumes water in subgrade is removed within 1 day. Please note, the shallow subgrade soils encountered at the site generally consist of clays with Relatively low permeability's; which means the soils have relatively poor drainage characteristics. Therefore, we recommend installing longitudinal subsurface drains throughout the length of the proposed pavement areas. Additionally, we recommend the installation of series of finger drains within the proposed pavement areas; which if

appropriate and feasible could be connected to storm-sewer inlets. In addition to providing good drainage, the installation of underdrains underlying pavement sections founded over low permeability soils will generally aid in improving long-term performance of the pavement sections, as well as helping lower maintenance costs.

Based on the above design parameters, provided below are the calculated minimum pavement design thicknesses for rigid (concrete) pavement loading and flexible (asphalt) pavement for the provided loading. Refer to Appendix “B” *“Pavement Design Evaluation & Design Sections”* for detailed design calculations.

Table 1: Standard Duty Rigid Pavement Design (Minimum Thicknesses)

Traffic Loading Conditions⁽¹⁾	Concrete (Inches)⁽²⁾	Aggregate Base Course (Inches)⁽³⁾	Modulus of Subgrade Reactions (psi)	Design Life (Years)⁽¹⁾
247,369 ESAL's	6	7	75	15

⁽¹⁾ Estimated ESAL based on estimated number of truck passes per day

⁽²⁾ Minimum of 4,000 pounds per square inch (psi) concrete strength with suitable reinforcement

⁽³⁾ Indiana Department of Transportation (INDOT) No. 53 Crushed Stone, containing no more than 10 percent (%) fines.

Table 2: Standard Duty Flexible Pavement Design (Minimum Thicknesses)

Traffic Loading Conditions⁽¹⁾	Asphalt Surface Course HMA 9.5 mm (Inches)⁽²⁾	Asphalt Base Course HMA 19 mm (Inches)⁽²⁾	Aggregate Sub-Base (Inches)⁽³⁾	Design Life (Years)⁽¹⁾
225,633 ESAL's	2	4	7	15

⁽¹⁾ Estimated ESAL based on estimated number of truck passes per day

⁽²⁾ Indiana Department of Transportation (INDOT) Specified Hot Mix Asphalt (HMA)

⁽³⁾ Indiana Department of Transportation (INDOT) No. 53 Crushed Stone, containing no more than 10 percent (%) fines.

The pavement analysis does not include conditions for loading of dumpster trucks which generate high stresses in the pavement. For the dumpster loading area, we recommend using a reinforced concrete pad at least 8 inches thick underlain by at least 8 inches of crushed stone. Prior to placing the crushed base for the rigid pavement, the dumpster and truck approach areas should be thoroughly proofrolled. We recommend the concrete pad be large enough to accommodate the entire length of the truck while loading. In addition, we recommend a thickened curb be constructed around the perimeter of the dumpster pad to reduce the potential for further pad damage typically associated with overstressing of the pad edges.

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report or if we may be of any additional assistance, please do not hesitate to contact our office.

Respectfully submitted,
Patriot Engineering and Environmental, Inc.



Ian Grafe, E.I.
Geotechnical Engineer



William D. Dubois, P.E.
Senior Principal Engineer

Appendix A: Pavement Design Evaluations
General Qualifications
Standard Clause for Unanticipated Subsurface Conditions

APPENDIX A

PAVEMENT DESIGN SECTIONS

GENERAL QUALIFICATIONS

**STANDARD CLAUSE FOR UNANTICIPATED
SUBSURFACE CONDITIONS**

WinPAS

Pavement Thickness Design According to
1993 AASHTO Guide for Design of Pavements Structures
American Concrete Pavement Association

Rigid Design Inputs

Project Name: Johnson County Recycle Center
Route: County Road 250 East
Location: Franklin, Indiana
Owner/Agency:
Design Engineer: Patriot Engineering

Rigid Pavement Design/Evaluation

Concrete Thickness	6.00 inches	Load Transfer Coefficient	3.20
Total Rigid ESALs	247,369	Modulus of Subgrade Reaction	75 psi/in.
Reliability	80.00 percent	Drainage Coefficient	1.00
Overall Standard Deviation	0.35	Initial Serviceability	4.50
Flexural Strength	650 psi	Terminal Serviceability	2.00
Modulus of Elasticity	4,400,000 psi		

Modulus of Subgrade Reaction (k-value) Determination

Resilient Modulus of the Subgrade 3,000.0 psi
Unadjusted Modulus of Subgrade Reaction 1 psi/in
Depth to Rigid Foundation 0.00 feet
Loss of Support Value (0,1,2,3) 0.0

Modulus of Subgrade Reaction	75 psi/in.
-------------------------------------	-------------------

WinPAS

Pavement Thickness Design According to
1993 AASHTO Guide for Design of Pavements Structures
American Concrete Pavement Association

Flexible Design Inputs

Project Name: Johnson County Recycle Center
Route: County Road 250 East
Location: Franklin, Indiana
Owner/Agency:
Design Engineer: Patriot Engineering

Flexible Pavement Design/Evaluation

Structural Number	3.06	Subgrade Resilient Modulus	4,500.00 psi
Total Flexible ESALs	225,633	Initial Serviceability	4.20
Reliability	80.00 percent	Terminal Serviceability	2.50
Overall Standard Deviation	0.45		

Layer Pavement Design/Evaluation

Layer Material	Layer Coefficient	Drainage Coefficient	Layer Thickness	Layer SN
Asphalt Cement Concrete	0.39	1.00	2.00	0.78
Asphalt Cement Concrete	0.36	1.00	4.00	1.44
Crushed Stone Base	0.14	1.00	6.00	0.84
			Σ SN	3.06

GENERAL QUALIFICATIONS
of Patriot Engineering's Geotechnical Engineering Investigation

This report has been prepared at the request of our client for his use on this project. Our professional services have been performed, findings obtained, and recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties either expressed or implied.

The scope of our services did not include any environmental assessment or investigation for the presence or absence of wetlands, hazardous or toxic materials in the soil, groundwater, or surface water within or beyond the site studied. Any statements in this report or on the test borings logs regarding vegetation types, odors or staining of soils, or other unusual conditions observed are strictly for the information of our client and the owner.

This report may not contain sufficient information for purposes of other parties or other uses. This company is not responsible for the independent conclusions, opinions or recommendations made by others based on the field and laboratory data presented in this report. Should there be any significant differences in structural arrangement, loading or location of the structure, our analysis should be reviewed.

The recommendations provided herein were developed from the information obtained in the test borings, which depict subsurface conditions only at specific locations. The analysis, conclusions, and recommendations contained in our report are based on site conditions as they existed at the time of our exploration. Subsurface conditions at other locations may differ from those occurring at the specific drill sites. The nature and extent of variations between borings may not become evident until the time of construction. If, after performing on-site observations during construction and noting the characteristics of any variation, substantially different subsurface conditions from those encountered during our explorations are observed or appear to be present beneath excavations, we must be advised promptly so that we can review these conditions and reconsider our recommendations where necessary.

If there is a substantial lapse of time between the submission of our report and the start of work at the site, or if conditions have changed due to natural causes or construction operations at or adjacent to the site, we urge that our report be reviewed to determine the applicability of the conclusions and recommendations considering the changed conditions and time lapse.

We urge that Patriot be retained to review those portions of the plans and specifications that pertain to earthwork and foundations to determine whether they are consistent with our recommendations. In addition, we are available to observe construction, particularly the compaction of structural backfill and preparation of the foundations, and such other field observations as may be necessary.

In order to fairly consider changed or unexpected conditions that might arise during construction, we recommend the following verbiage (Standard Clause for Unanticipated Subsurface Conditions) be included in the project contract.

STANDARD CLAUSE FOR UNANTICIPATED SUBSURFACE CONDITIONS

"The owner has had a subsurface exploration performed by a soils consultant, the results of which are contained in the consultant's report. The consultant's report presents his conclusions on the subsurface conditions based on his interpretation of the data obtained in the exploration. The contractor acknowledges that he has reviewed the consultant's report and any addenda thereto, and that his bid for earthwork operations is based on the subsurface conditions as described in that report. It is recognized that a subsurface exploration may not disclose all conditions as they actually exist and further, conditions may change, particularly groundwater conditions, between the time of a subsurface exploration and the time of earthwork operations. In recognition of these facts, this clause is entered in the contract to provide a means of equitable additional compensation for the contractor if adverse unanticipated conditions are encountered and to provide a means of rebate to the owner if the conditions are more favorable than anticipated.

At any time during construction operations that the contractor encounters conditions that are different than those anticipated by the soils consultant's report, he shall immediately (within 24 hours) bring this fact to the owner's attention. If the owner's representative on the construction site observes subsurface conditions which are different than those anticipated by the consultant's report, he shall immediately (within 24 hours) bring this fact to the contractor's attention. Once a fact of unanticipated conditions has been brought to the attention of either the owner or the contractor, and the consultant has concurred, immediate negotiations will be undertaken between the owner and the contractor to arrive at a change in contract price for additional work or reduction in work because of the unanticipated conditions. The contract agrees that the following unit prices would apply for additional or reduced work under the contract. For changed conditions for which unit prices are not provided, the additional work shall be paid for on a time and materials basis."

Another example of a changed conditions clause can be found in paper No. 4035 by Robert F. Borg, published in ASCE Construction Division Journal, No. CO2, September 1964, page 37.