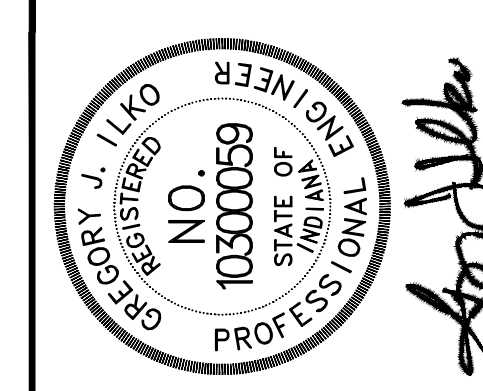


TITLE SHEET

JOHNSON COUNTY RECYCLE CENTER



JOB No.		DATE	APRIL 11, 2024
CHECKED	BTV	DESIGNED	BTV
APPR.	GJI	DRAWN	LMC
SHEET	100		

FINAL CONSTRUCTION PLANS

JOHNSON COUNTY RECYCLE CENTER

0 N. GRAHAM ROAD FRANKLIN, INDIANA



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 2022 TO BE USED WITH THESE PLANS

LEGAL DESCRIPTION

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.

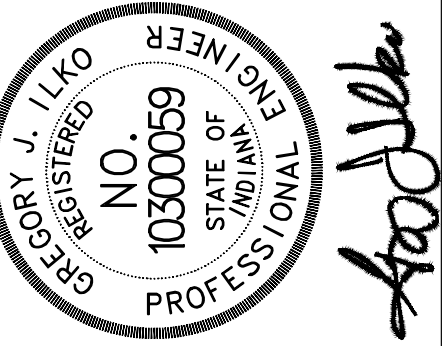
UTILITY CONTACTS				
UTILITY	COMPANY	CONTACT	PHONE	EMAIL
COMMUNICATIONS	MC	DEAN BOYERS	469-886-4238	investigations@verizon.com
FIBER OPTIC	BRIGHTSPEED	MELISSA TEAGUE	765-656-4663	melissa.teague@brightspeed.com
FIBER OPTIC	METRO FIBERNET	MARK DECKARD	812-253-2196	rhw@permits@metronetinc.com
ELECTRIC	DUKE ENERGY	JESSICA TURNER	812-662-2007	jessica.turner@duke-energy.com
SANITARY	CITY OF FRANKLIN DFW	EVAN HART	317-412-8450	ehart@franklin.in.gov
WATER	INDIANA AMERICAN WATER COMPANY	TRACY WHITE	317-855-2426	tracy.white@iaawater.com
GAS	CENTERPOINT ENERGY	JOH EASTHAM	765-287-2119	publicproject@centerpointenergy.com
FIRE DEPARTMENT	CITY OF FRANKLIN	BRYNE PURSFULL	317-736-3650	bpursfull@franklin.in.gov

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TOPOGRAPHICAL SURVEY

JOHNSON COUNTY RECYCLE CENTER

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



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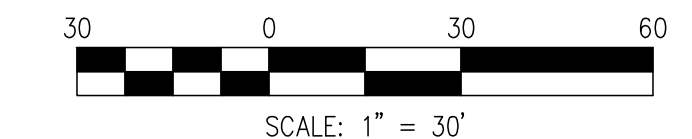
REVISIONS

DATE

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REVISIONS

DATE



EXISTING LEGEND

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

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. 18081045E, WHICH BEARS AN EFFECTIVE DATE OF JANUARY 29, 2021.

BENCHMARK INFORMATION

ORIGINATING BENCHMARK:
 DESIGNATION - X 13
 FID - KADDIS
 STATE/COUNTY - IN/MORGAN
 USGS QUAD - MOOREVILLE EAST (1980)
 VERT ORDER - FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1946 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 CORNER OF CONC HEADWALL @ SE QUAD OF 'UNVILLE WAY' & 'GRAHAM RD'
 ELEV. = 754.94

LEGAL DESCRIPTION

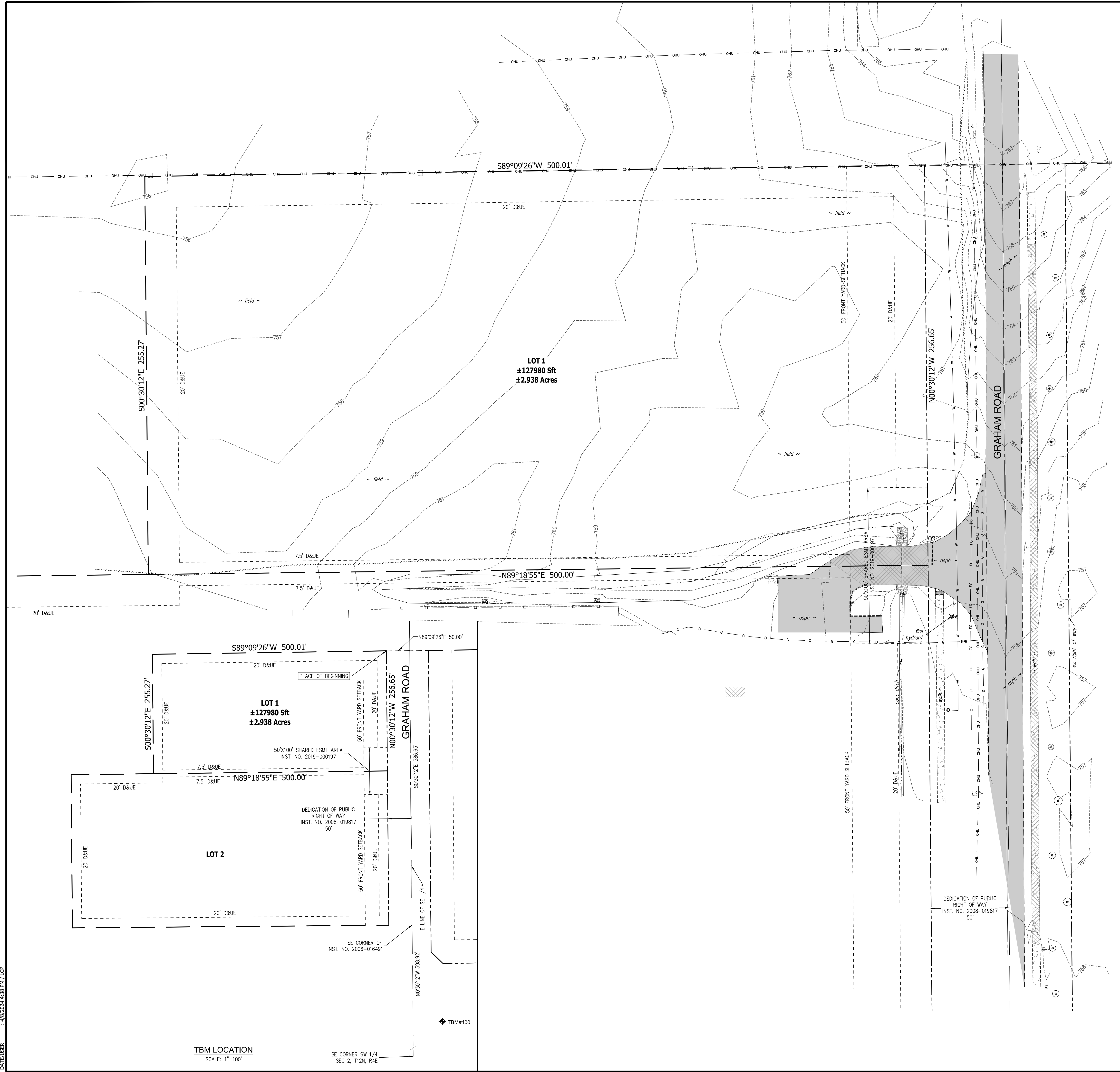
INSTRUMENT NO. 2023-000852
 LOT NUMBERED ONE IN THE UNVILLE COMMERCIAL MINOR SUBDIVISION AS RECORDED IN PLAT CABINET E, SLIDE 3598 AND AS INSTRUMENT NO. 2019-000197 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA.

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.

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 primary meter for gas services shall be the underground utility company at each utility access area. Other in-service of operations and/or meter does not warrant any liability. The surveyor has not physically located the underground utilities.

UTILITY	COMPANY	CONTACT	PHONE	EMAIL
COMMUNICATIONS	MCI	DEAN BOYERS	469-886-4238	investigators@verizon.com
FIBER OPTIC	BRIGHTSPEED	MELISSA TEAGUE	765-656-4663	melissa.teague@brightspeed.com
FIBER OPTIC	METRO FIBERNET	MARK DEKARD	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
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	BYRNE PURSIFULL	317-736-3650	bpursful@franklin.in.gov



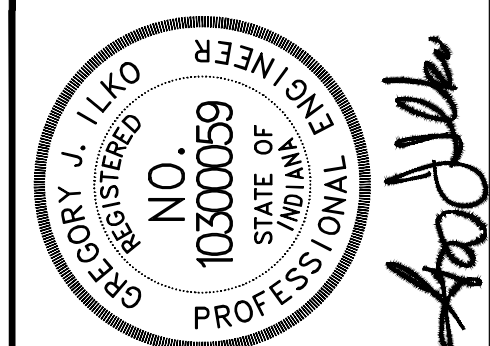
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TBM LOCATION
 SCALE: 1"=100'

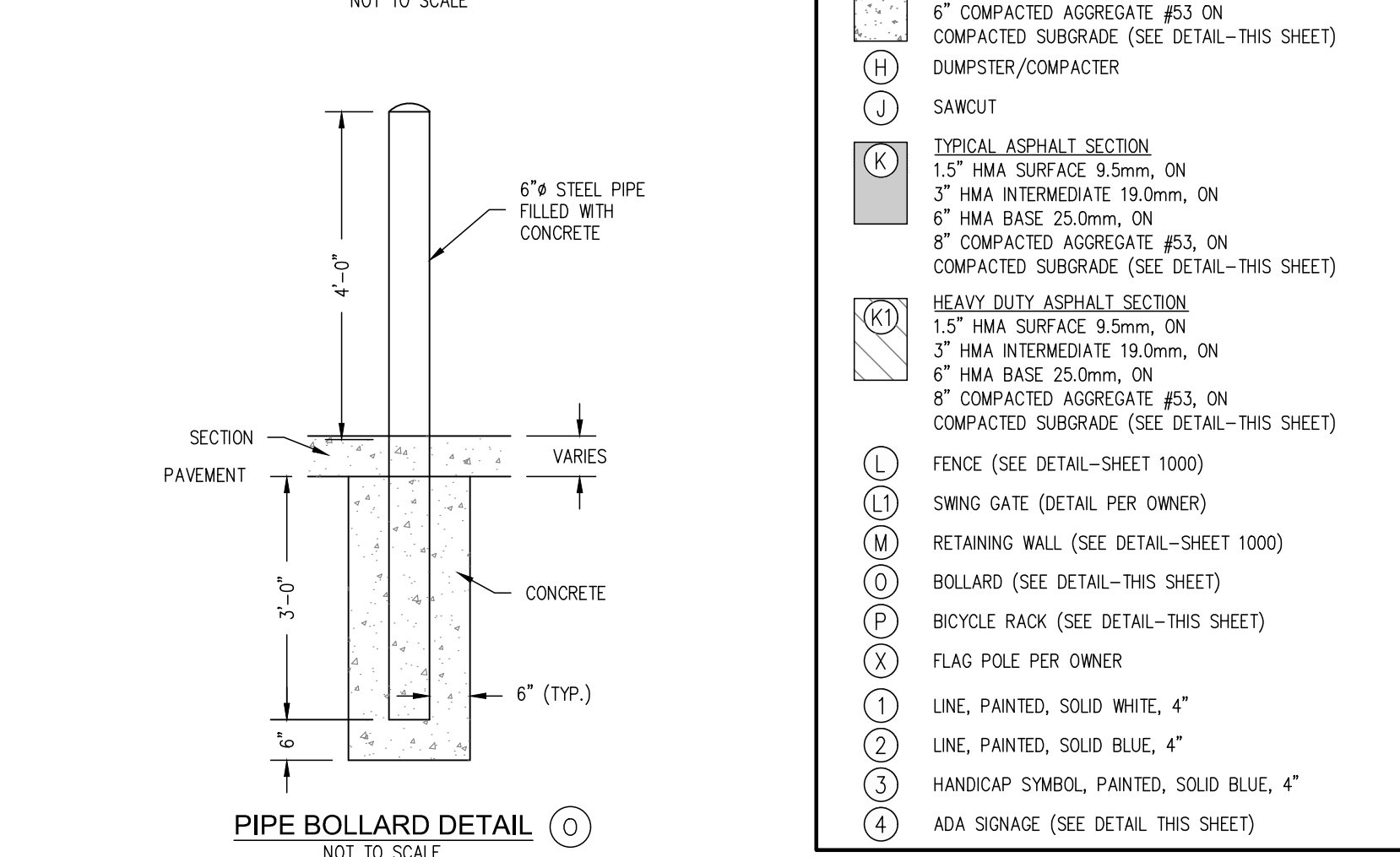
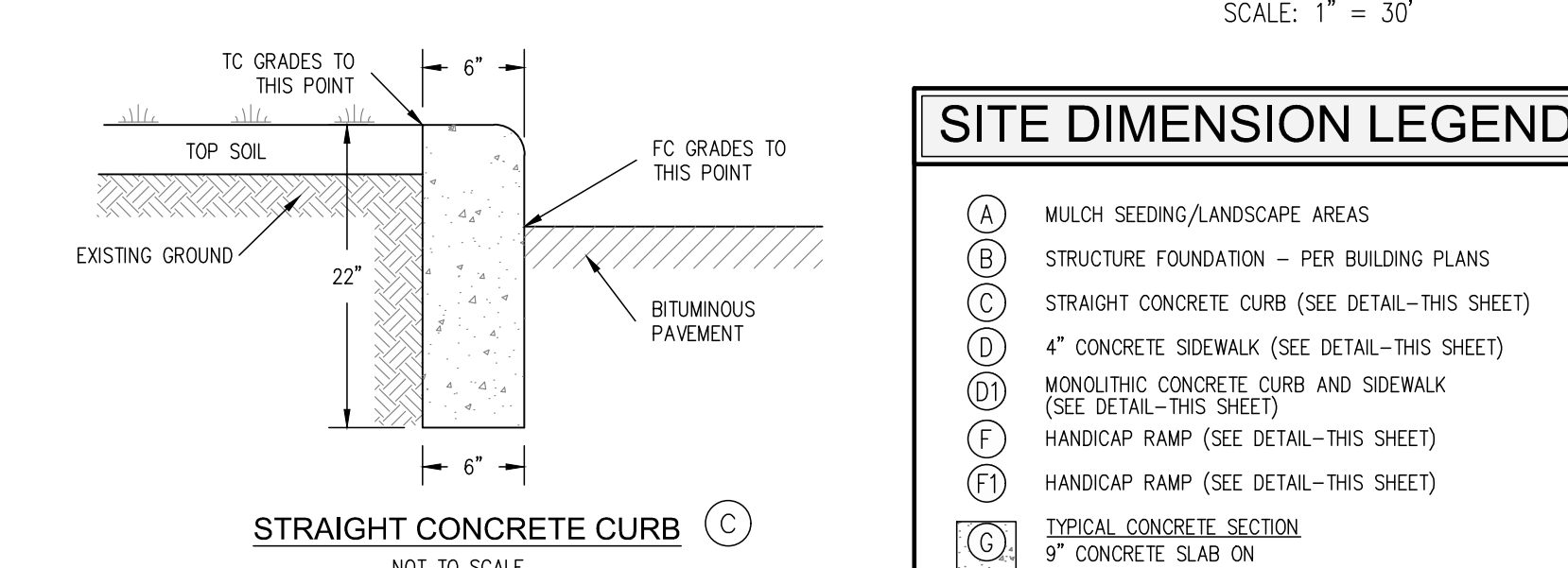
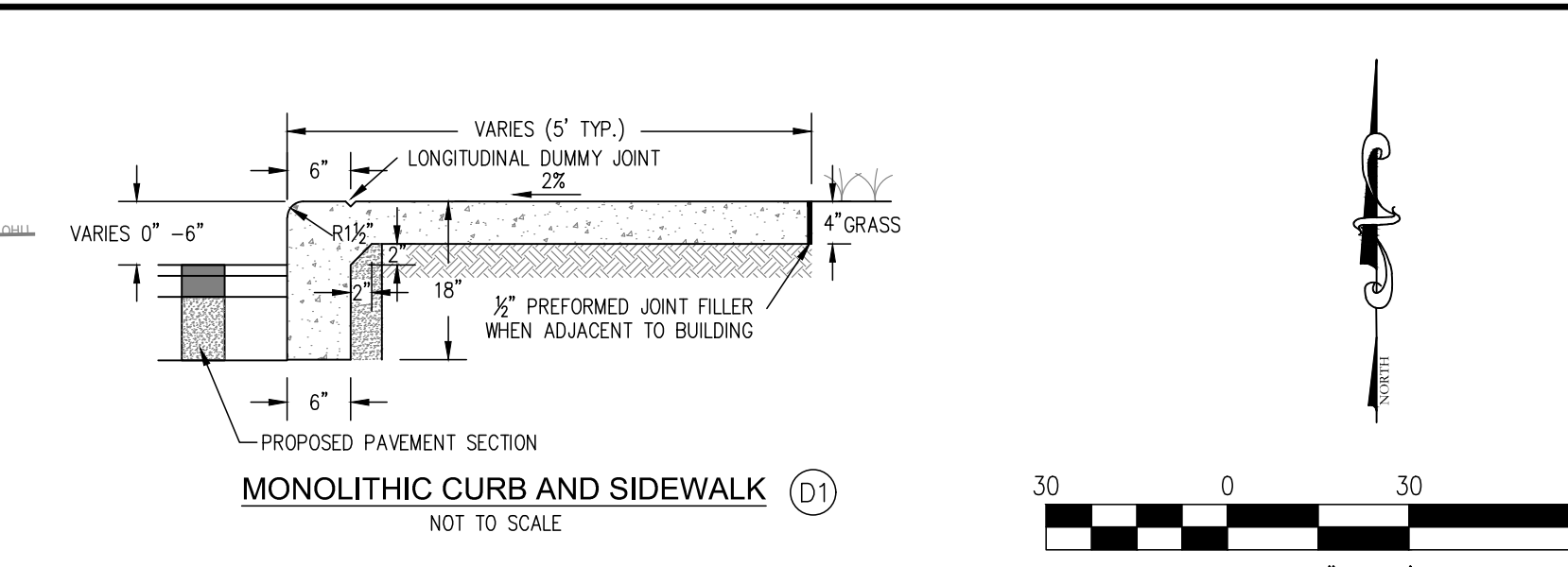
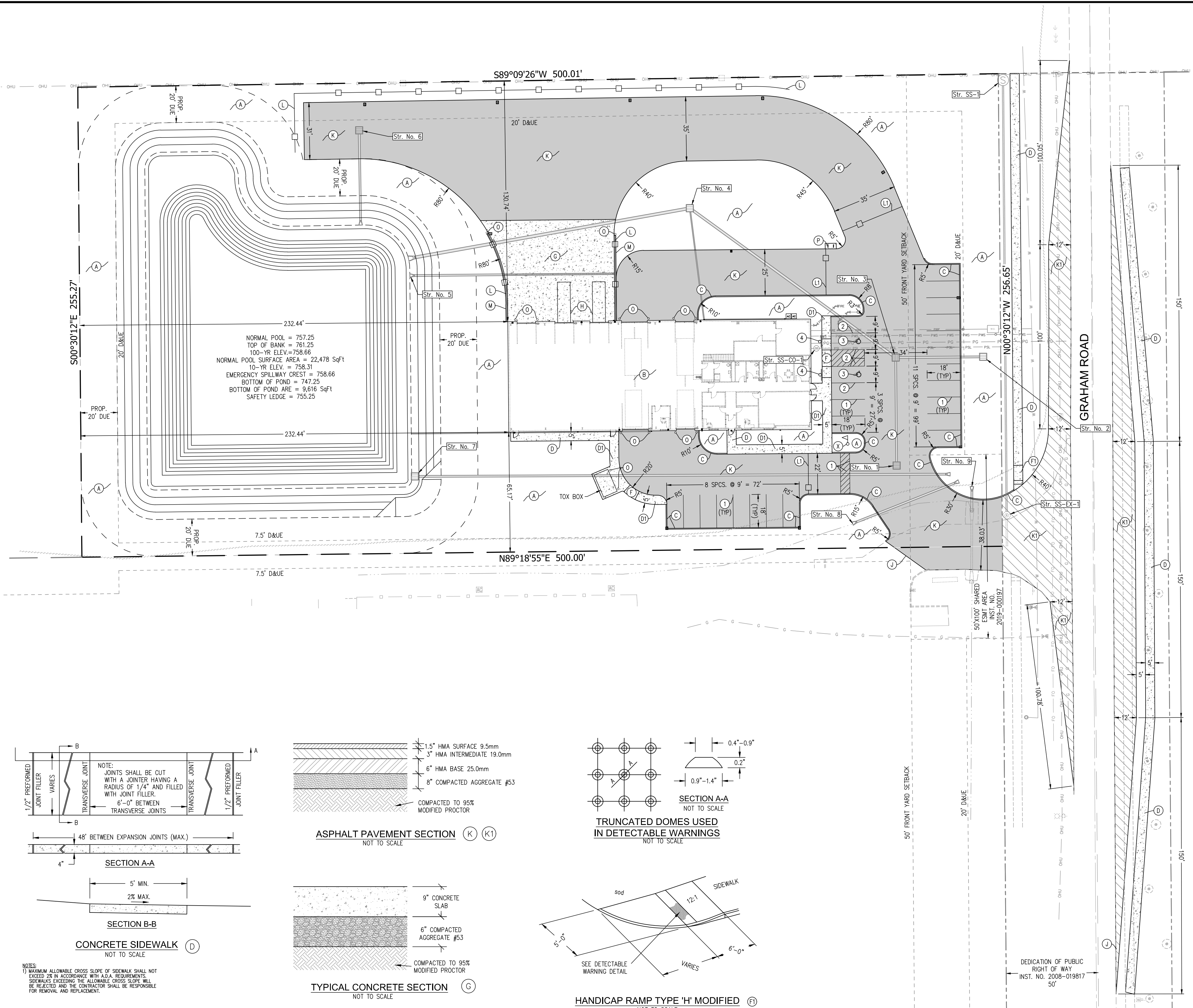
SE CORNER SW 1/4
 SEC 2, T12N, R4E

SITE DIMENSION PLAN
JOHNSON COUNTY RECYCLE CENTER

JOB NO.	DATE	DESIGNED	BTW	APPR.	GU	SHEET
	APRIL 11, 2024					300

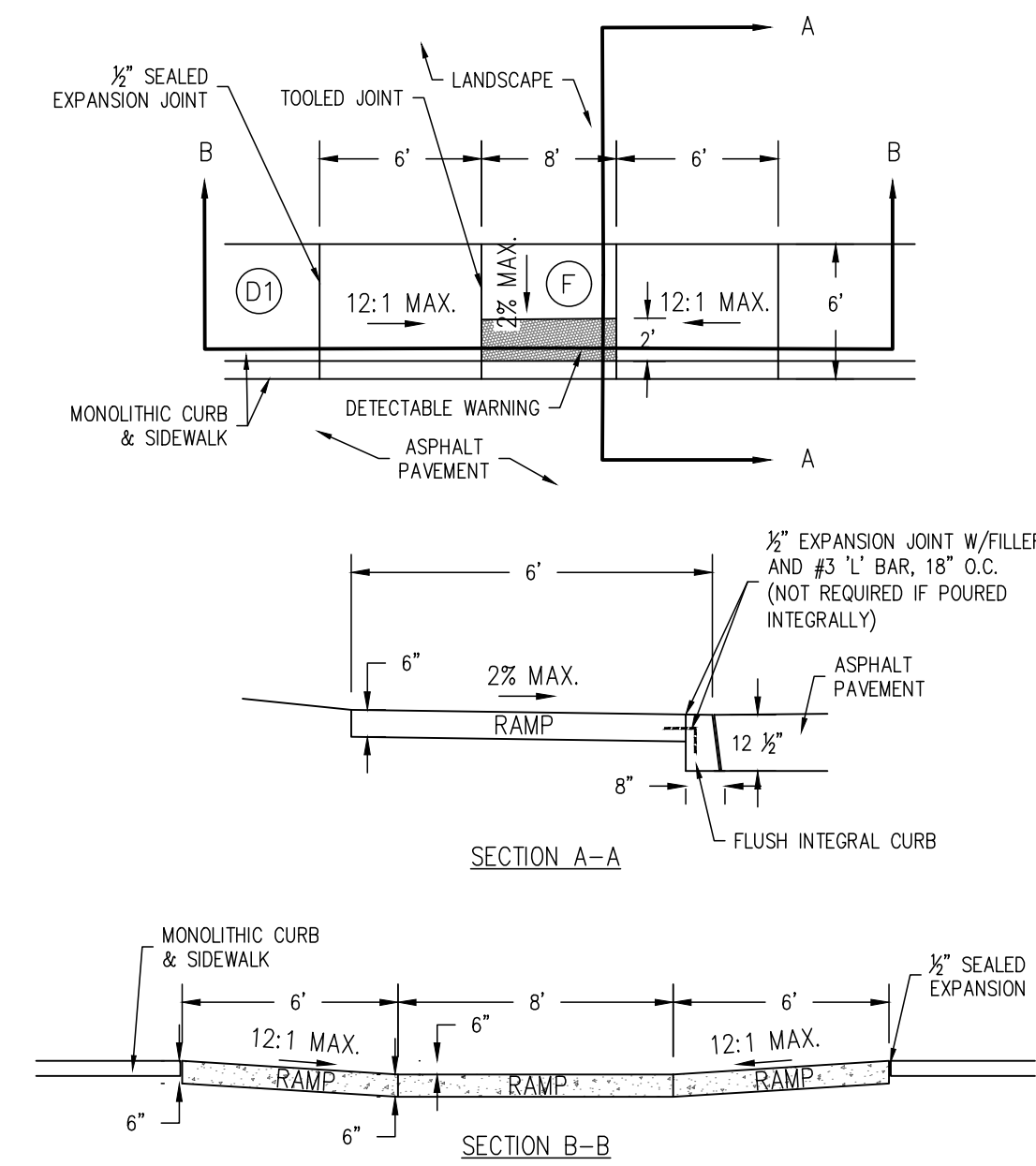
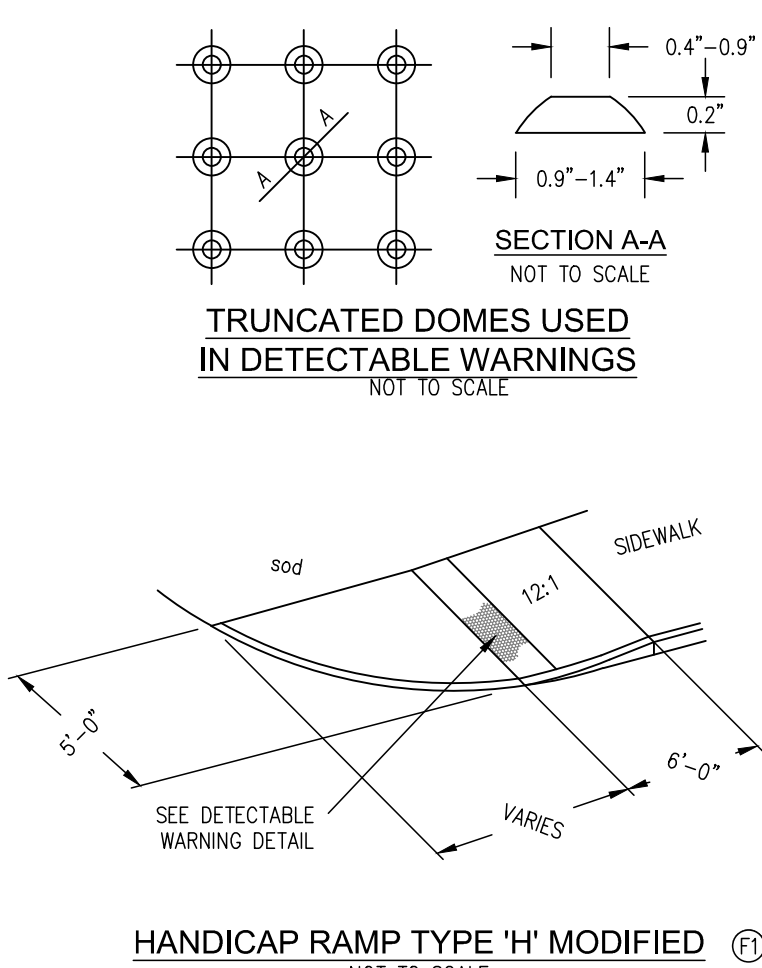
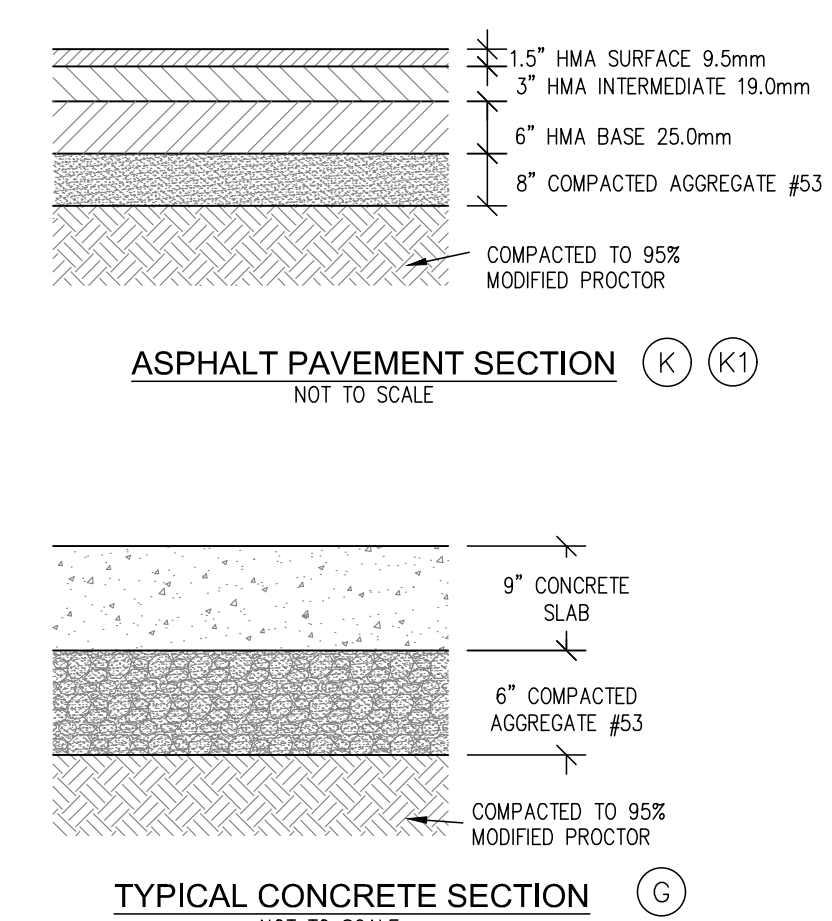
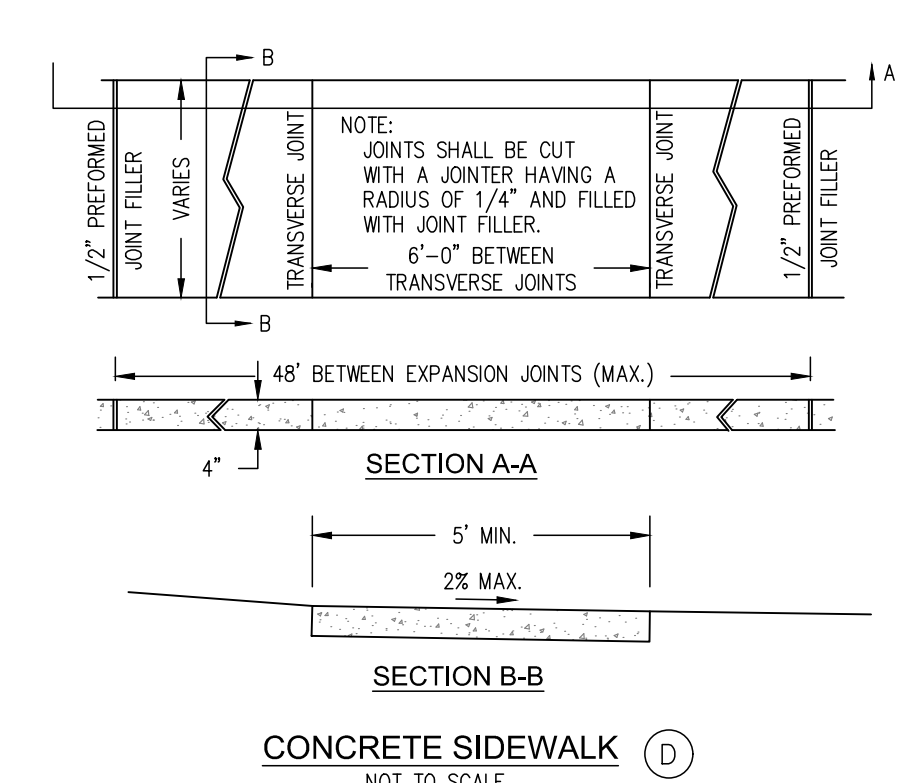


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SITE DIMENSION LEGEND

- (A) MULCH SEEDING/LANDSCAPE AREAS
- (B) STRUCTURE FOUNDATION - PER BUILDING PLANS
- (C) STRAIGHT CONCRETE CURB (SEE DETAIL-THIS SHEET)
- (D) 4\"/>
- (D1) MONOLITHIC CONCRETE CURB AND SIDEWALK (SEE DETAIL-THIS SHEET)
- (E) HANDICAP RAMP (SEE DETAIL-THIS SHEET)
- (F) HANDICAP RAMP (SEE DETAIL-THIS SHEET)
- (G) TYPICAL CONCRETE SECTION
9\"/>
- (H) COMPACTED SUBGRADE (SEE DETAIL-THIS SHEET)
- (I) DUMPSTER/COMPACTER
- (J) SAWCUT
- (K) TYPICAL ASPHALT SECTION
1.5\"/>
- (K1) HEAVY DUTY ASPHALT SECTION
1.5\"/>
- (L) FENCE (SEE DETAIL-SHEET 1000)
- (L1) SWING GATE (DETAIL PER OWNER)
- (M) RETAINING WALL (SEE DETAIL-SHEET 1000)
- (N) BOLLARD (SEE DETAIL-THIS SHEET)
- (P) BICYCLE RACK (SEE DETAIL-THIS SHEET)
- (X) FLAG POLE PER OWNER
- (1) LINE, PAINTED, SOLID WHITE, 4"
- (2) LINE, PAINTED, SOLID BLUE, 4"
- (3) HANDICAP SYMBOL, PAINTED, SOLID BLUE, 4"
- (4) ADA SIGNAGE (SEE DETAIL THIS SHEET)

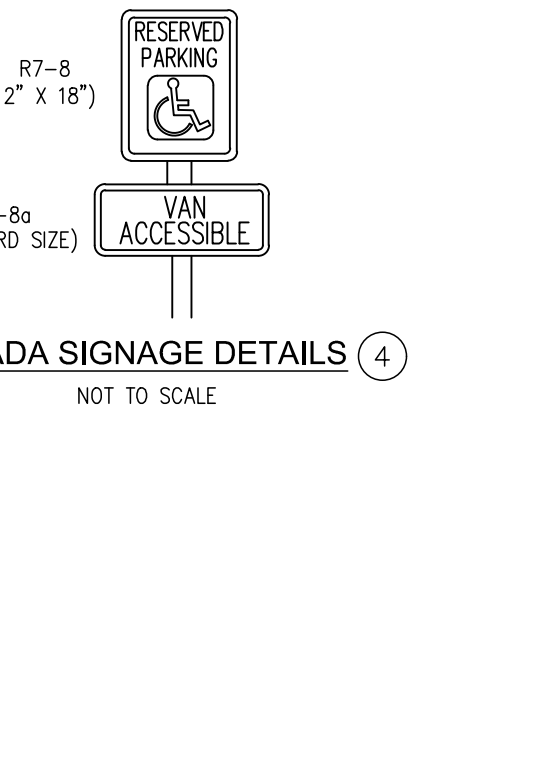
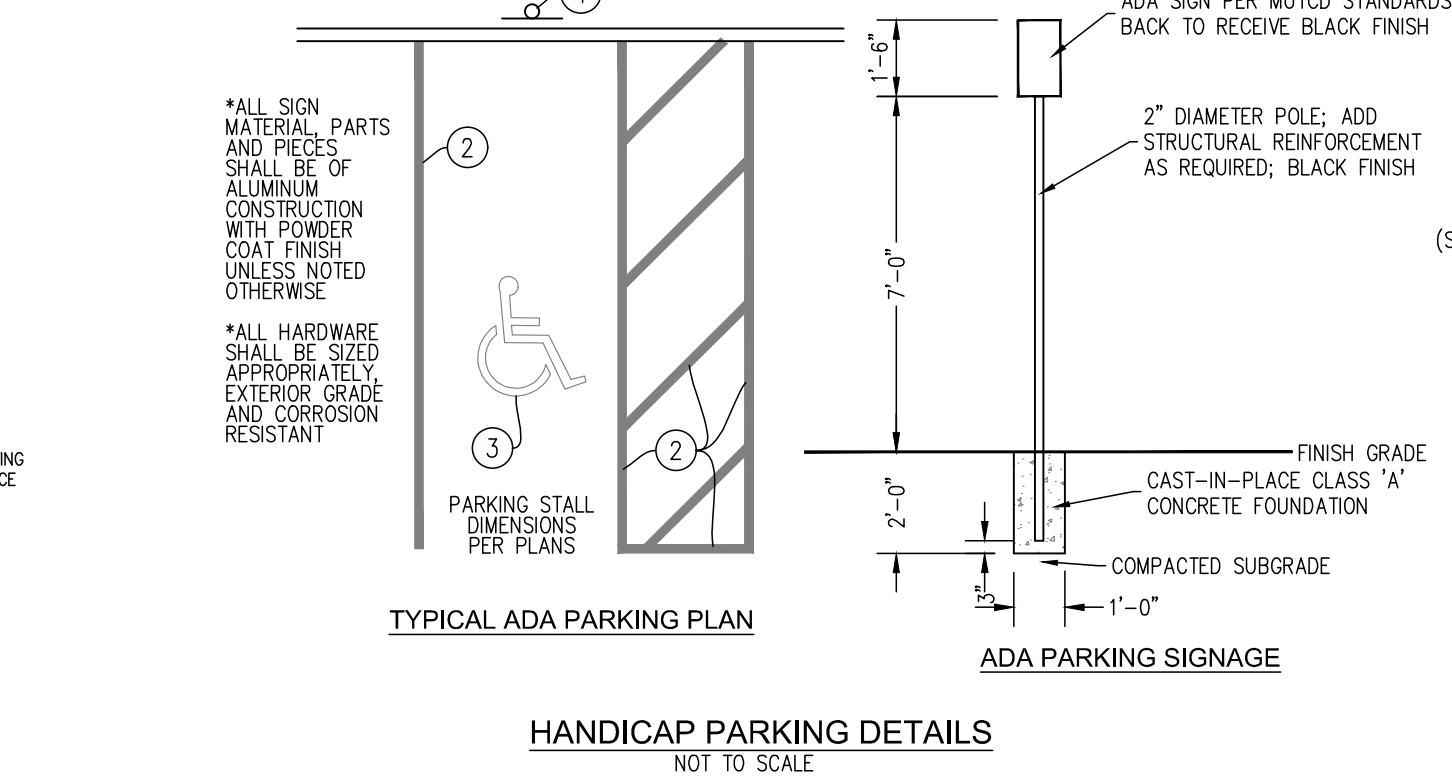
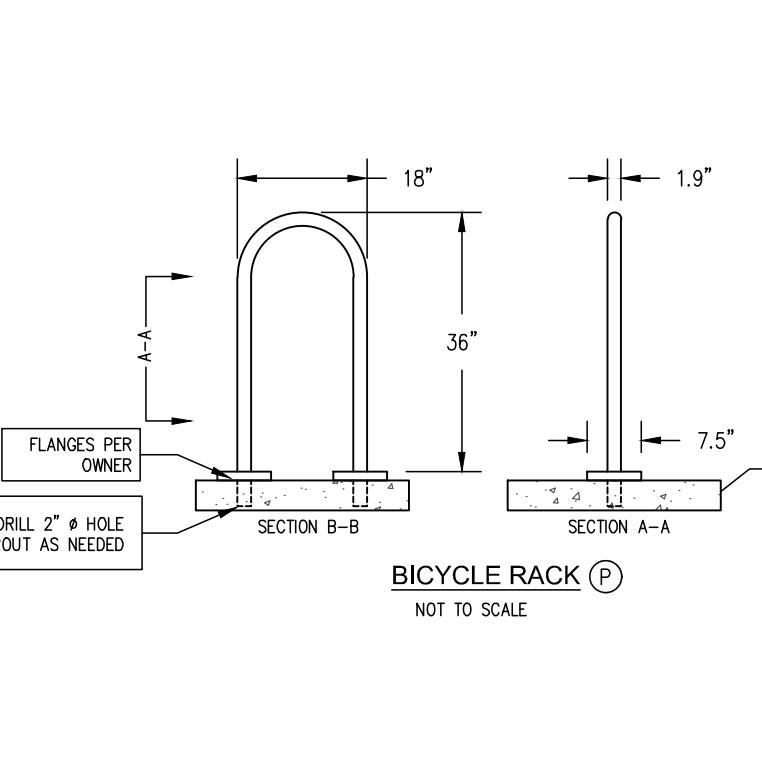


SITE DIMENSION NOTES

- CONTRACTOR SHALL NOTIFY ENGINEER, IF PROOF ROLL OF SUBGRADE FAILS, TO DETERMINE IF LINE STABILIZATION OF SUBGRADE IS NECESSARY.
- ALL RADIUS DIMENSIONS ARE TO THE BACK OF PROPOSED CURB OR EDGE OF PAVEMENT.
- SIGNAGE SHALL INCLUDE ALL NECESSARY HARDWARE AND FITTINGS, INCLUDING 10 FT. OF 11 GAUGE FLANGED CHANNEL SIGN POST.
- 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 M.U.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.

PARKING ANALYSIS

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



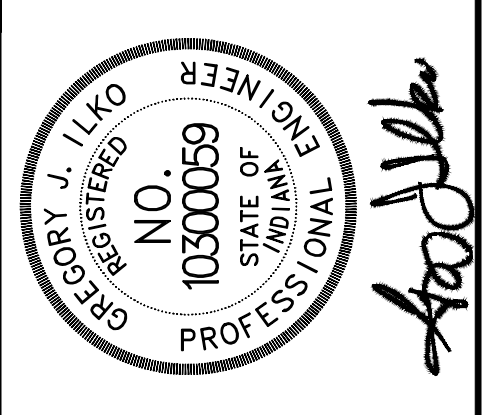
ABBREVIATIONS

FYS	FRONT YARD SETBACK
SYS	SIDE YARD SETBACK
RYS	REAR YARD SETBACK
DUE	DRAINAGE & UTILITY 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.



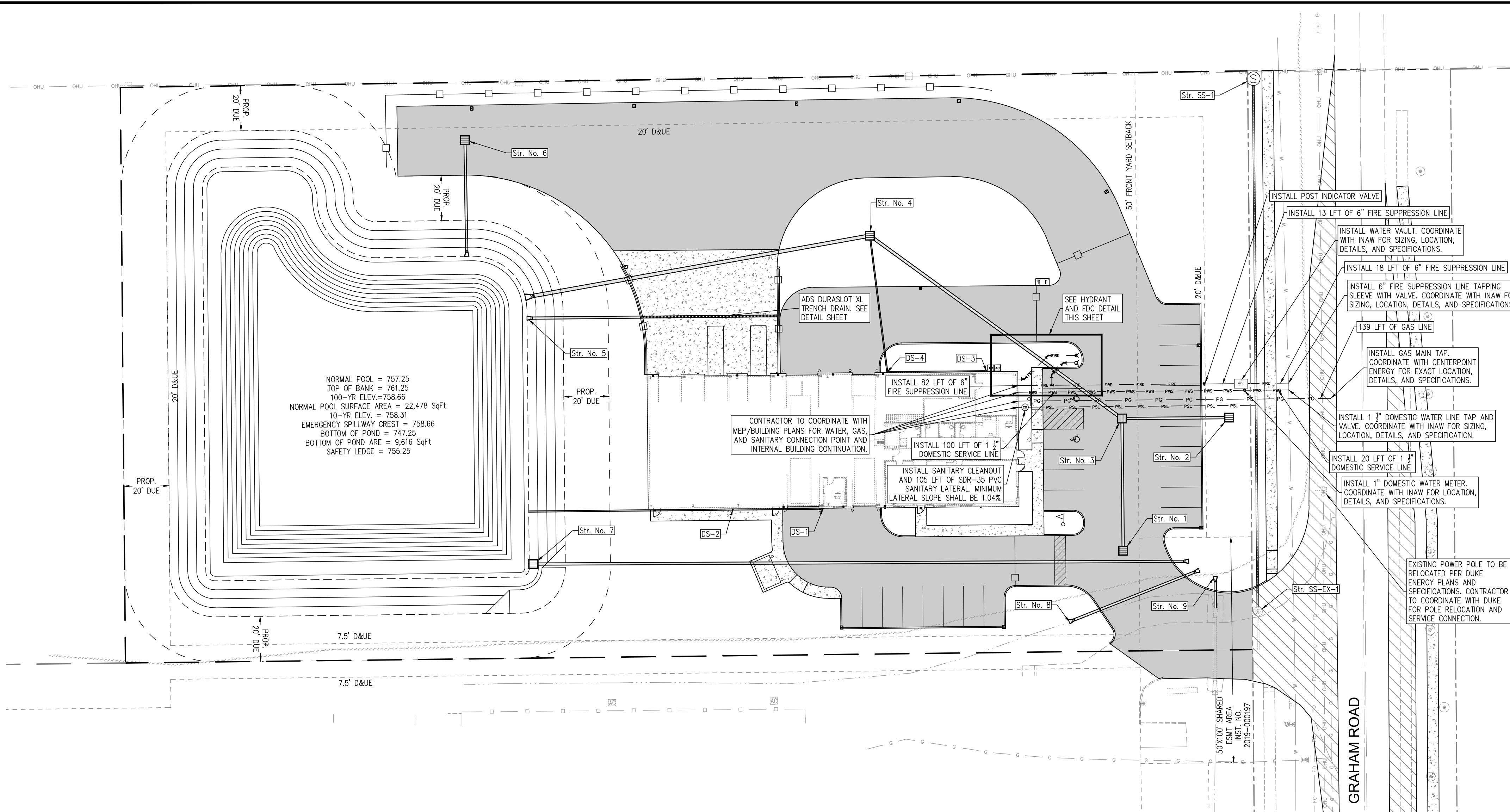
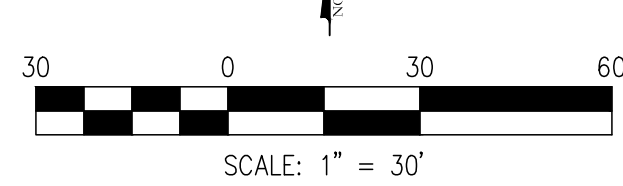
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EXISTING LEGEND

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



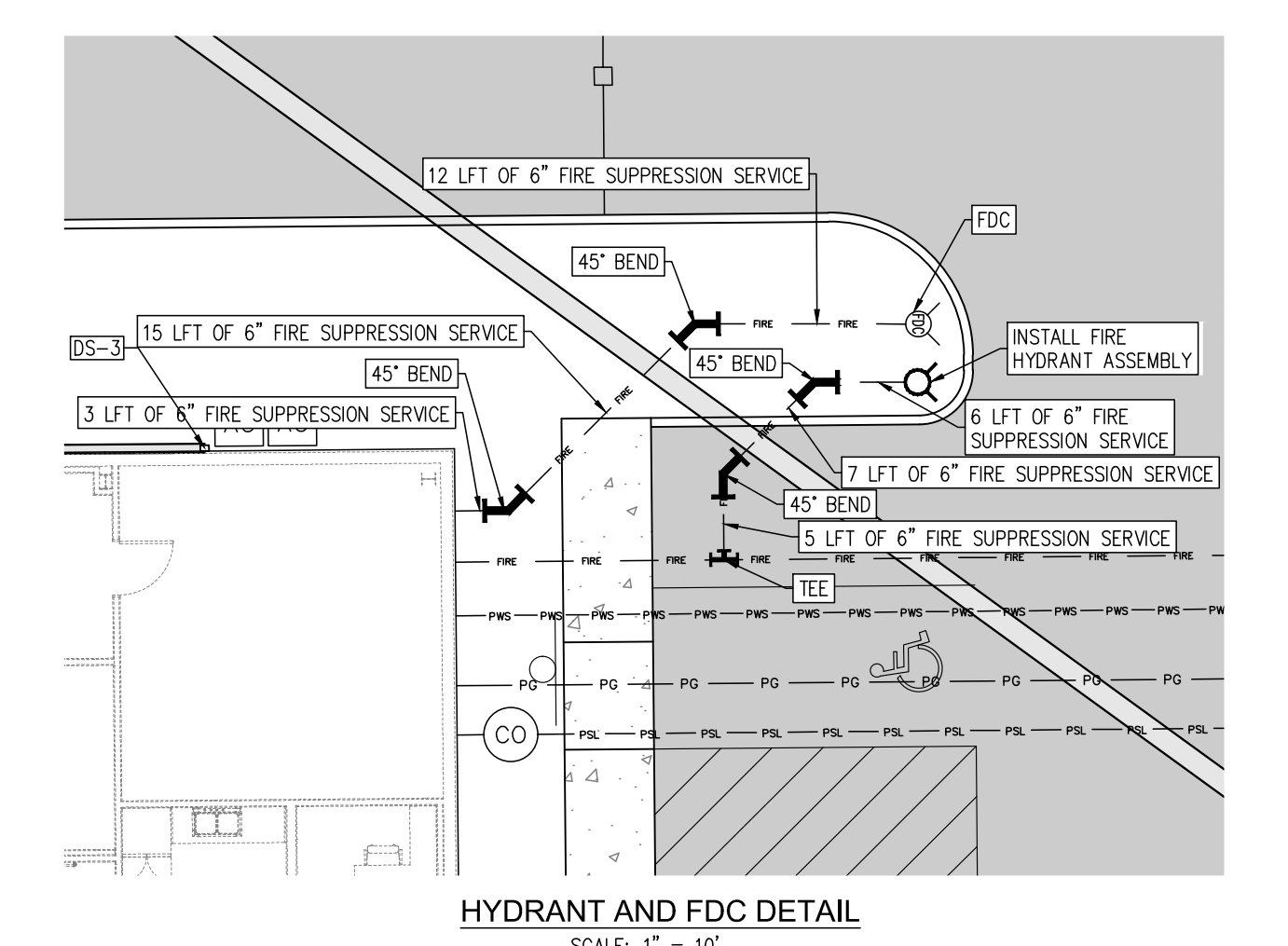
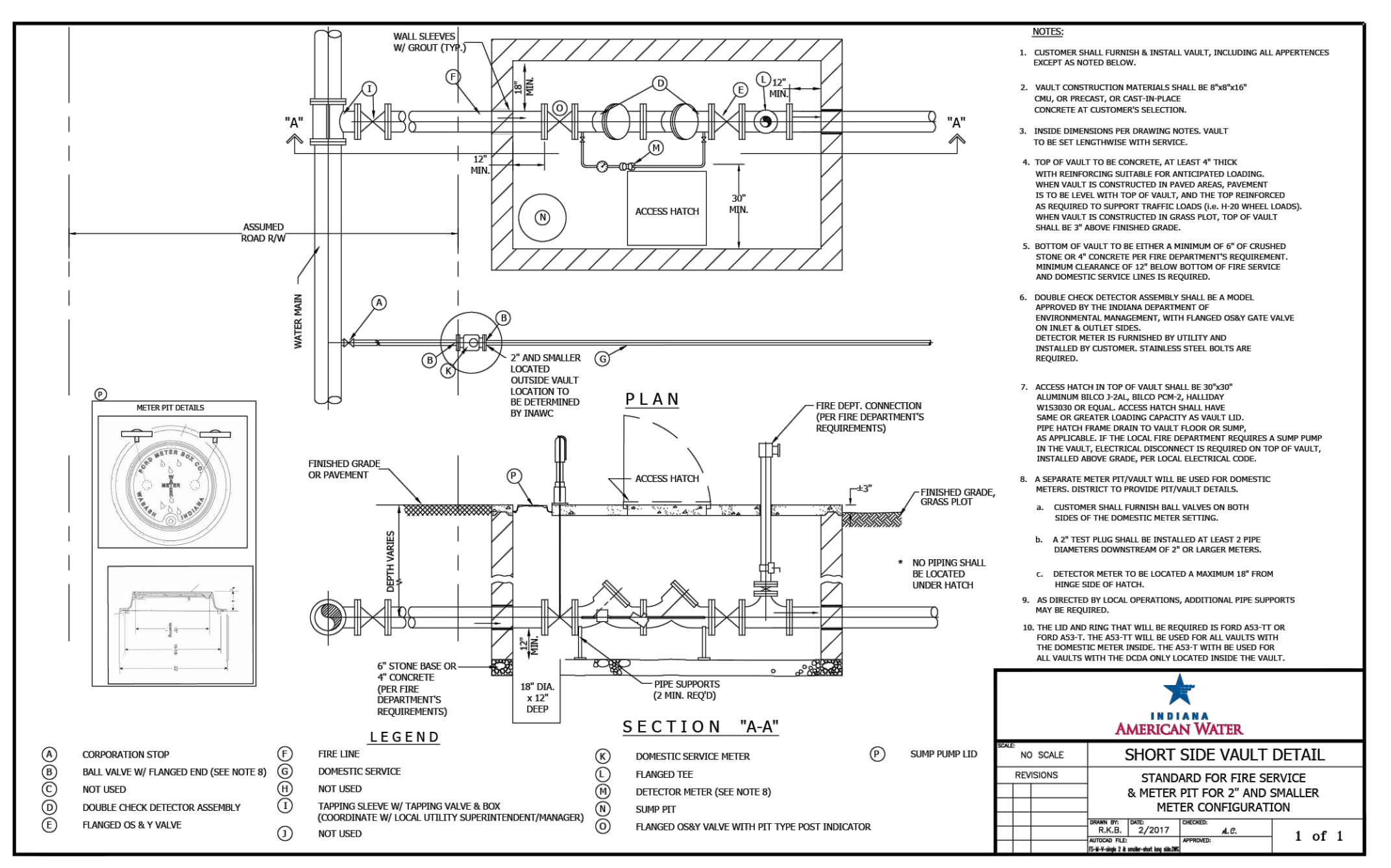
STORM SEWER STRUCTURE TABLE	STORM SEWER STRUCTURE TABLE	STORM SEWER STRUCTURE TABLE
STR. NO. 1 INSTALL TYPE 'E' INLET WITH NEENAH CASTING R-3405-A OR APPROVED EQUAL AND ONE (1) CONCRETE END SECTION AND 59 LFT OF 12" RCP @ 0.25% RIM=762.70 INV OUT (12"-W)=758.24	STR. NO. 4 INSTALL TYPE 'E' INLET WITH NEENAH CASTING R-4215-C OR APPROVED EQUAL AND ONE (1) CONCRETE END SECTION AND 155 LFT OF 12" RCP @ 0.25% RIM=761.00 INV IN (15"-SE)=757.63 INV IN (6"-S)=757.63 INV OUT (18"-W)=757.63	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 @ 0.29% RIM=760.00 INV OUT (12"-S)=747.02
STR. NO. 2 INSTALL TYPE 'E' INLET WITH NEENAH CASTING R-4215-C OR APPROVED EQUAL AND 48 LFT OF 12" RCP @ 0.25% RIM=760.80 INV OUT (12"-W)=758.22	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 12" RCP U.S. ELEV=757.90 D.S. ELEV=757.25	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. 3 INSTALL TYPE 'E' INLET WITH NEENAH CASTING R-3405-A OR APPROVED EQUAL AND 138 LFT OF 15" RCP @ 0.35% RIM=761.00 INV IN (12"-S)=758.10 INV IN (12"-S)=758.10 INV OUT (15"-NW)=758.10	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% RIM=759.70 INV OUT (12"-S)=757.43 D.S. ELEV=757.25	STR. NO. 9 INSTALL ONE (1) CONCRETE END SECTION AND EXTEND 14 LFT OF 12" RCP @ 0.64% U.S. ELEV=756.40

SANITARY SEWER STRUCTURE TABLE
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% RIM=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. RIM=758.82 PROP. INV IN (10"-N)=746.21 EX. INV OUT (10"-S)=745.91

STORM DOWNSPOUT DATA TABLE	STORM DOWNSPOUT DATA TABLE
STR. DATA D5-1 SEE DETAIL-SHEET 1000 40 LFT OF 6" PVC @ 0.50% U.S. EL.=757.90 D.S. EL.=757.70	STR. DATA D5-3 SEE DETAIL-SHEET 1000 44 LFT OF 6" PVC @ 0.50% U.S. EL.=758.00 D.S. EL.=757.94
STR. DATA D5-2 SEE DETAIL-SHEET 1000 90 LFT OF 6" PVC @ 0.50% U.S. EL.=757.70 D.S. EL.=757.25	STR. DATA D5-4 SEE DETAIL-SHEET 1000 61 LFT OF 6" PVC @ 0.50% U.S. EL.=757.94 D.S. EL.=757.63

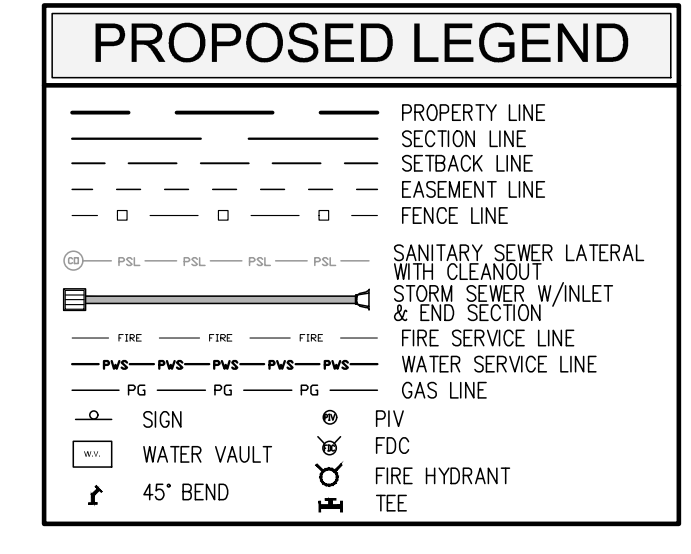
UTILITIES NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND PROVIDING ALL NECESSARY FLAGMAN, BARRISLS, 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 XXXX OF THESE PLANS.
- CONTRACTOR TO INSTALL 1" SCH. 40 PVC AT 3" TO 4" DEPTH AS NEEDED FOR ALL SITE LIGHTING. 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-1X.
- ALL SANITARY SEWER MAIN SHALL BE SDR-35 PVC PIPE.
- DURING CONSTRUCTION, CONTRACTOR SHALL INSTALL TWO (2) GREEN METAL SIGN POSTS AT EACH LATERAL STUB. CONTRACTOR SHALL PROTECT POSTS DURING CONSTRUCTION ACTIVITIES.
- ALL STORM SEWER CASTINGS SHALL HAVE RECESSED 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. 13. ALL HYDRANTS SHALL HAVE A STORZ CONNECTION.

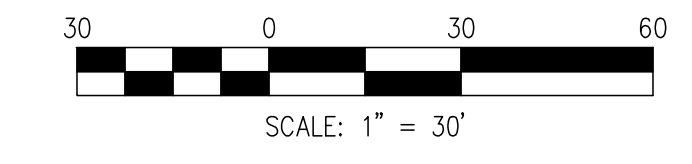
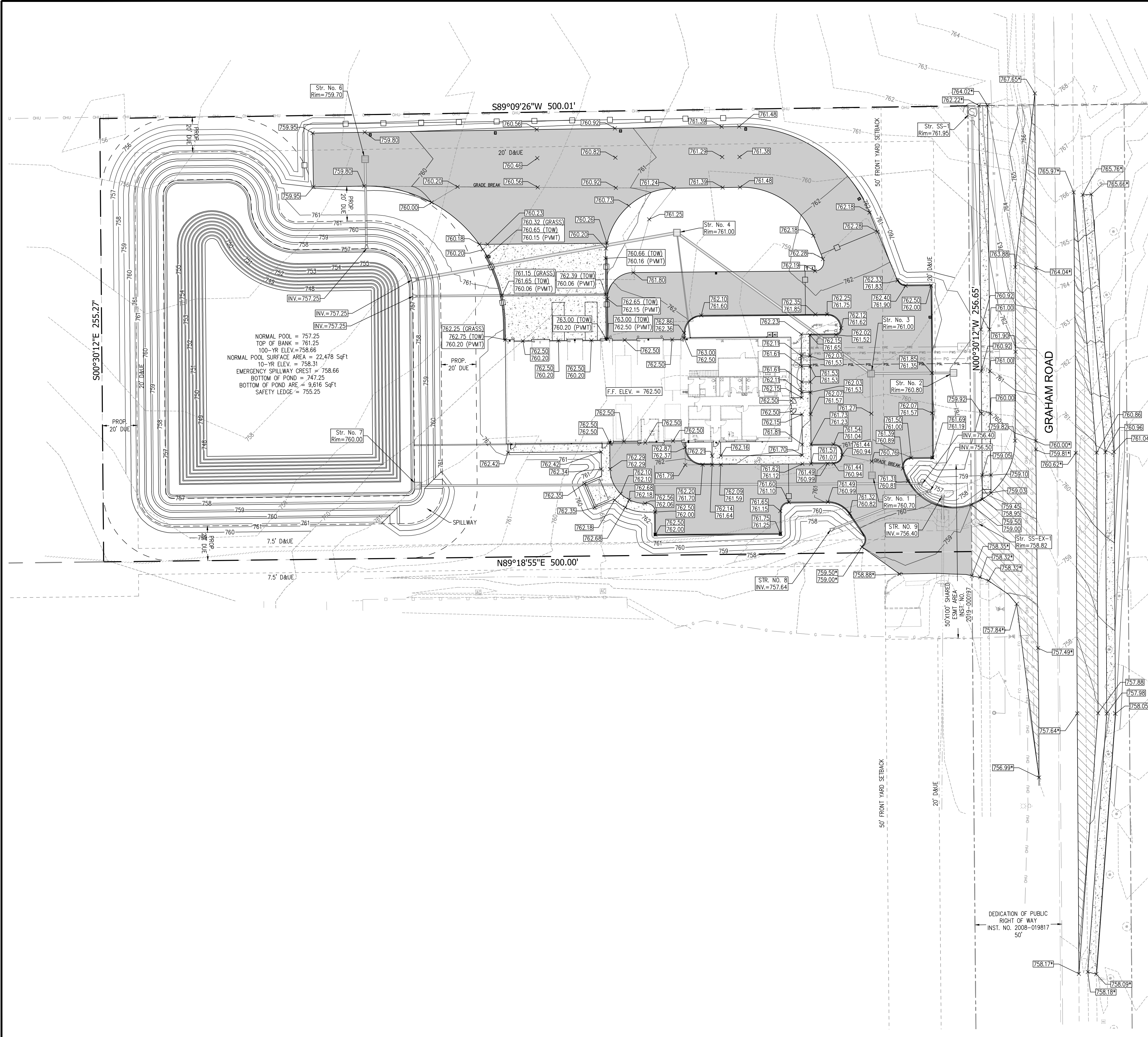


UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE	EMAIL
COMMUNICATIONS	MCJ	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	
---X---	PROPOSED ELEVATIONS
X---	EXISTING ELEVATIONS (TO BE FIELD VERIFIED)
---	PROPOSED FINISH GRADE
---	EXISTING GRADE
---	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 - K40010
 STATE/COUNTY - IN/MORGAN
 USGS QUAD - MOOREVILLE EAST (1980)

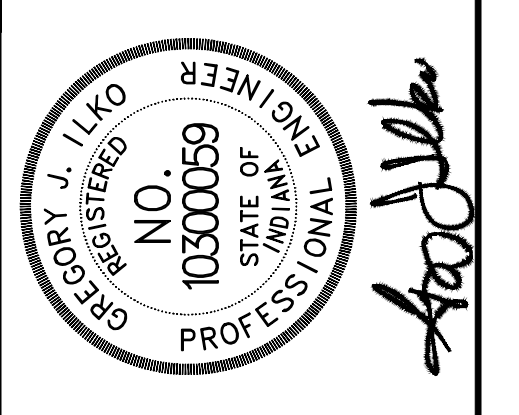
VERT ORDER - FIRST CLASS II

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)

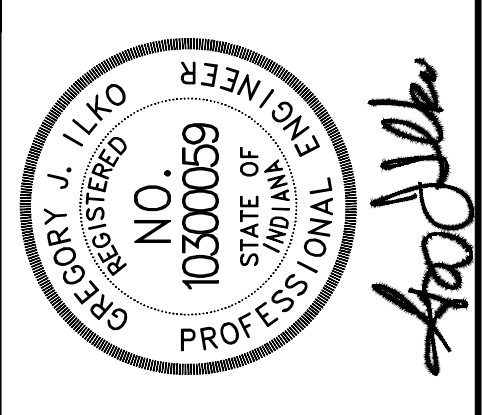
TRM #400
 CUT "BOX" ATOP SW MOST CORNER OF CONC HEADWALL @ SE QUAD OF 'LINVILLE WAY' & 'GRAHAM RD'

ELEV. = 754.94

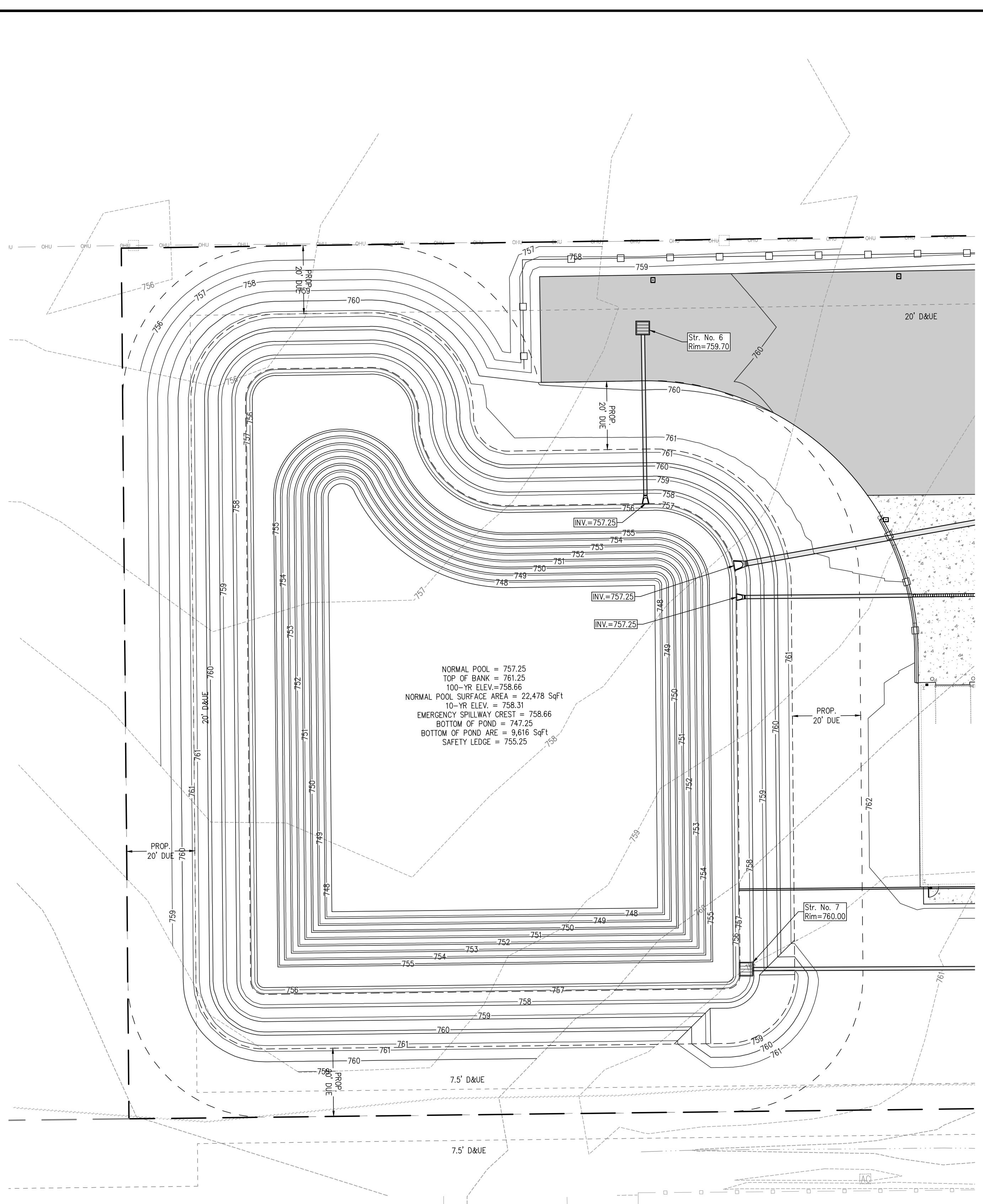


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NO.	DATE	REVISIONS	BY	APPR.
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NORMAL POOL = 757.25
 TOP OF BANK = 761.25
 100-YR ELEV = 758.66
 NORMAL POOL SURFACE AREA = 22,478 SqFt
 10-YR ELEV = 758.31
 EMERGENCY SPILLWAY CREST = 758.66
 BOTTOM OF POND = 747.25
 BOTTOM OF POND AREA = 9,616 SqFt
 SAFETY LEDGE = 755.25

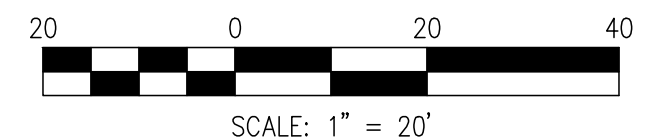
BENCHMARK INFORMATION

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.
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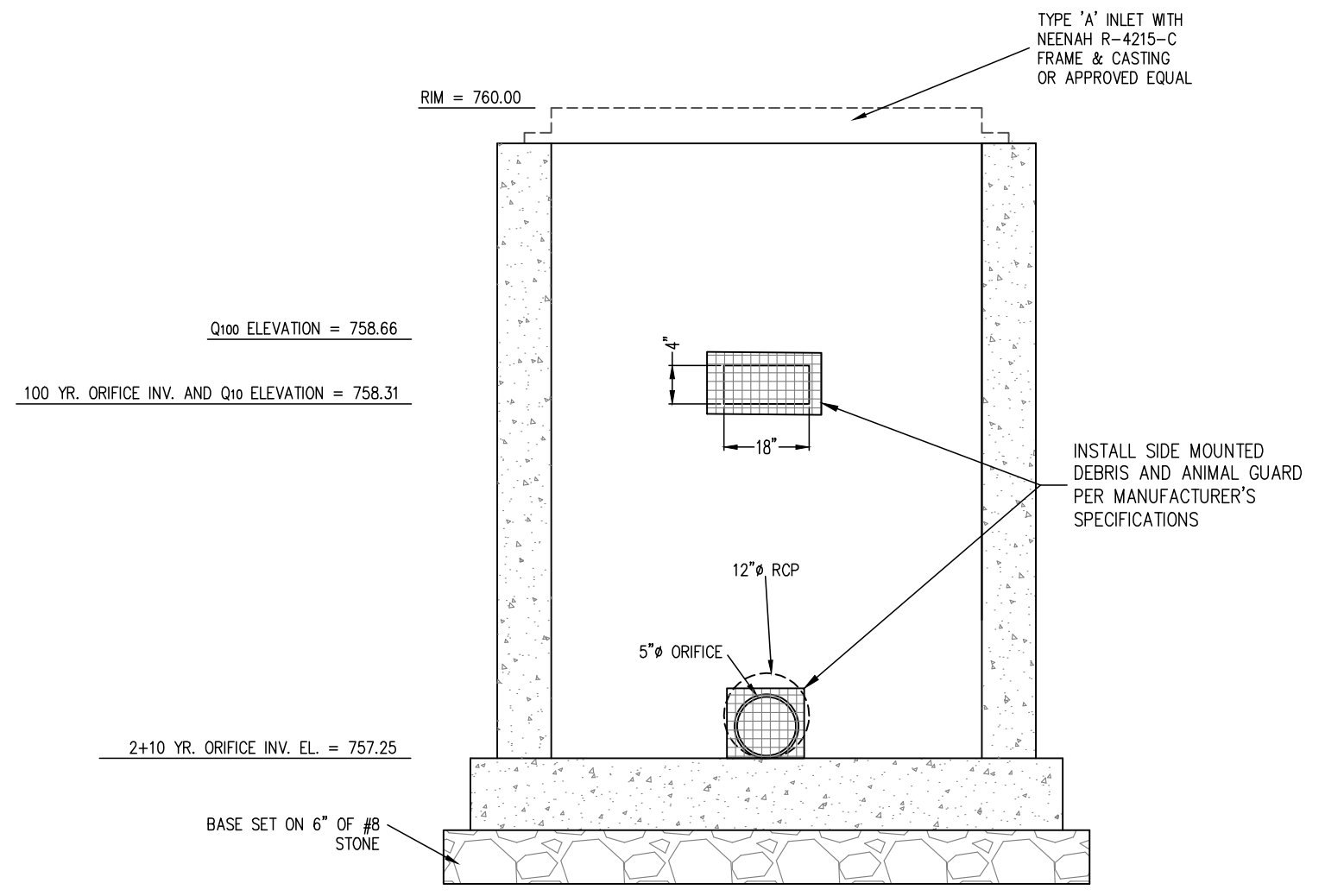
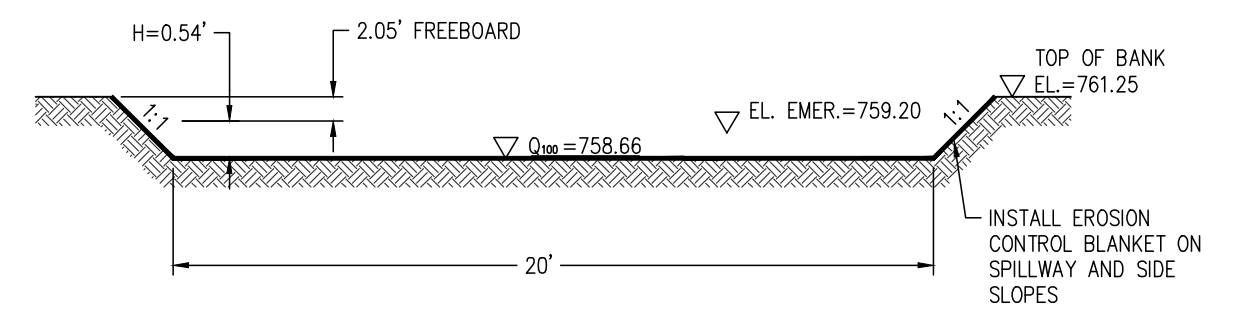
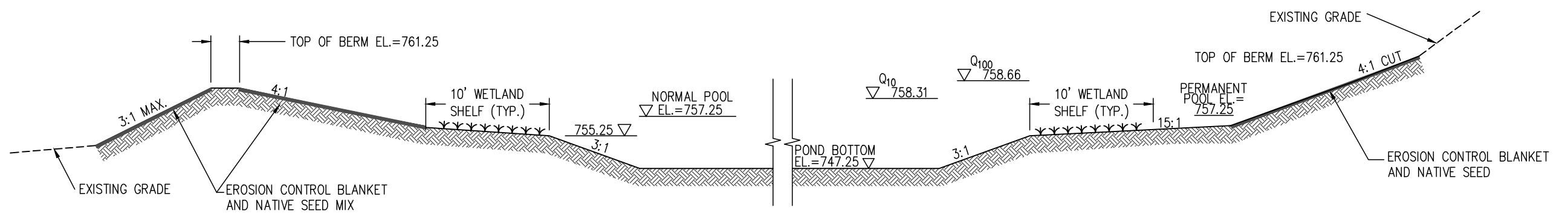
ELEV. = 685.94 (NAVD 88)

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

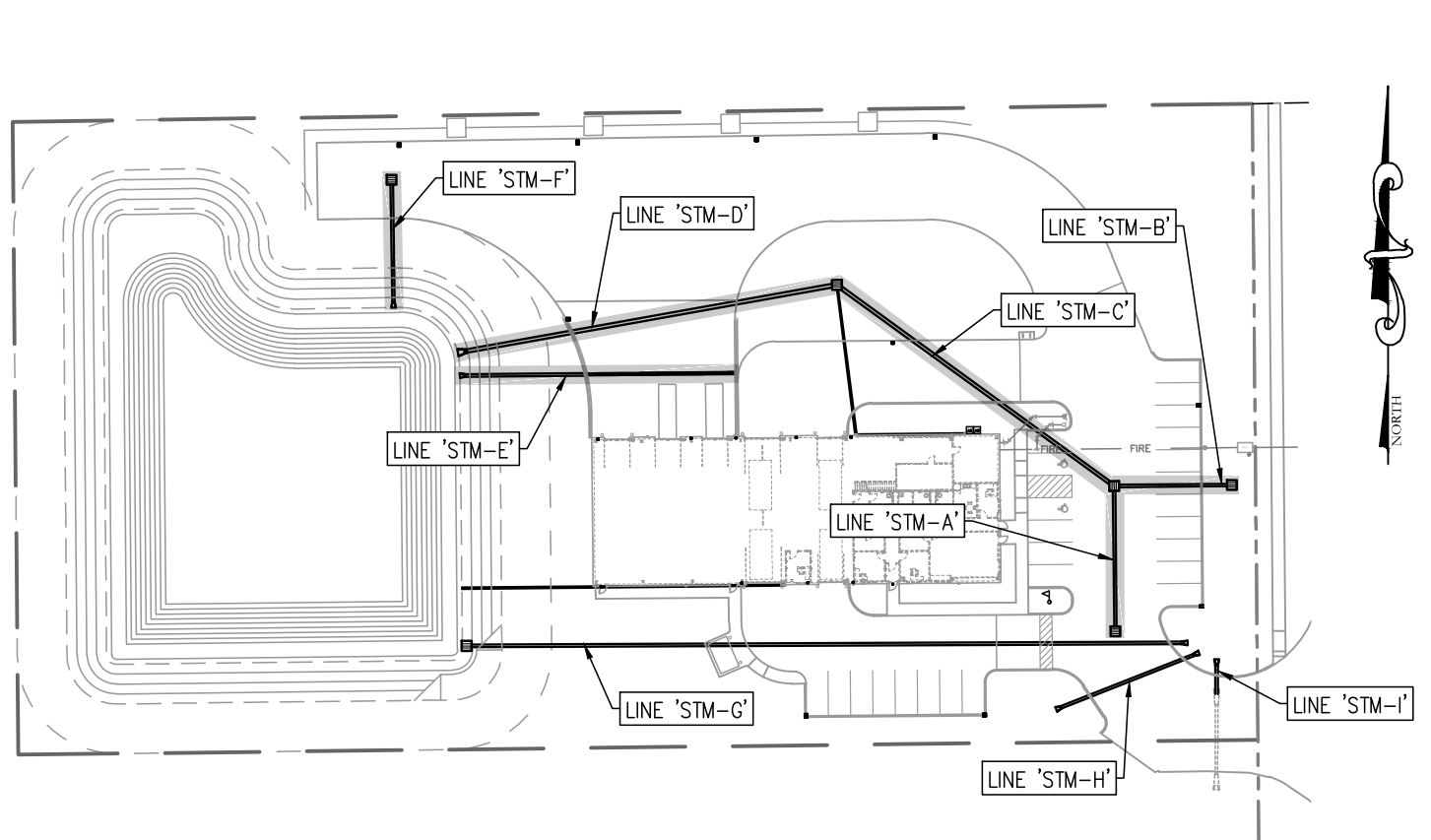
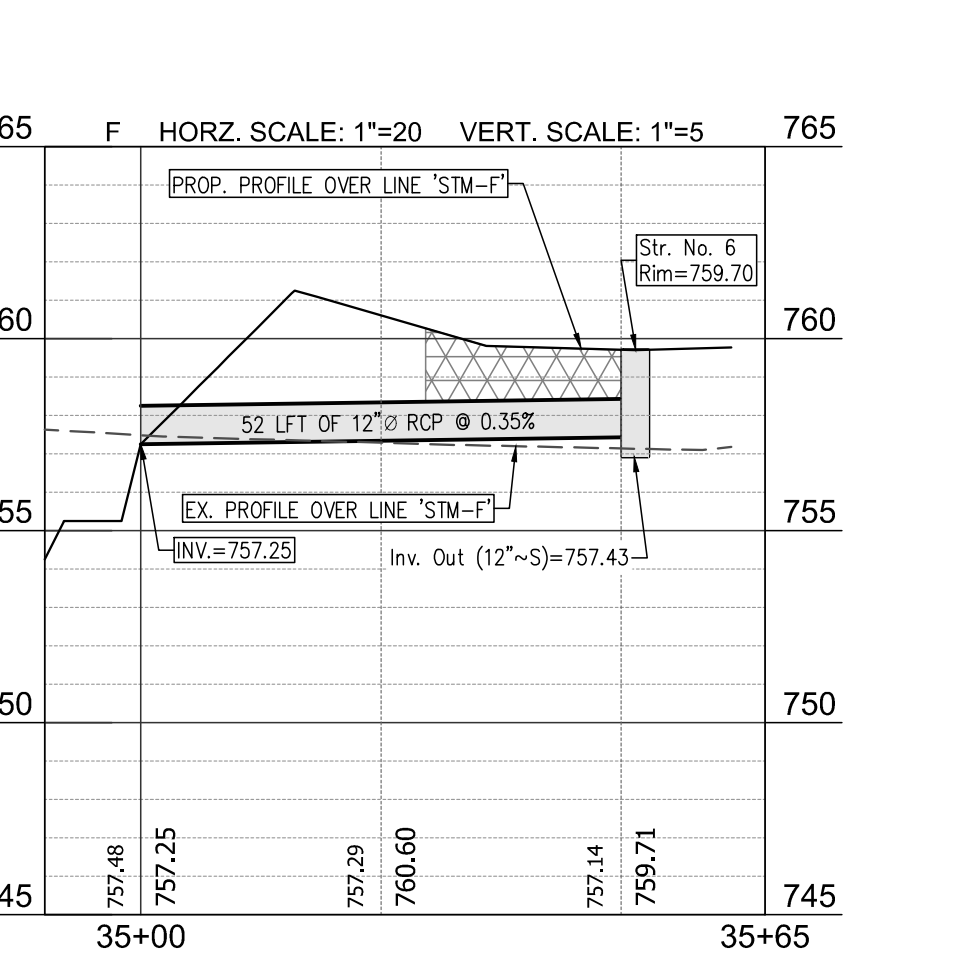
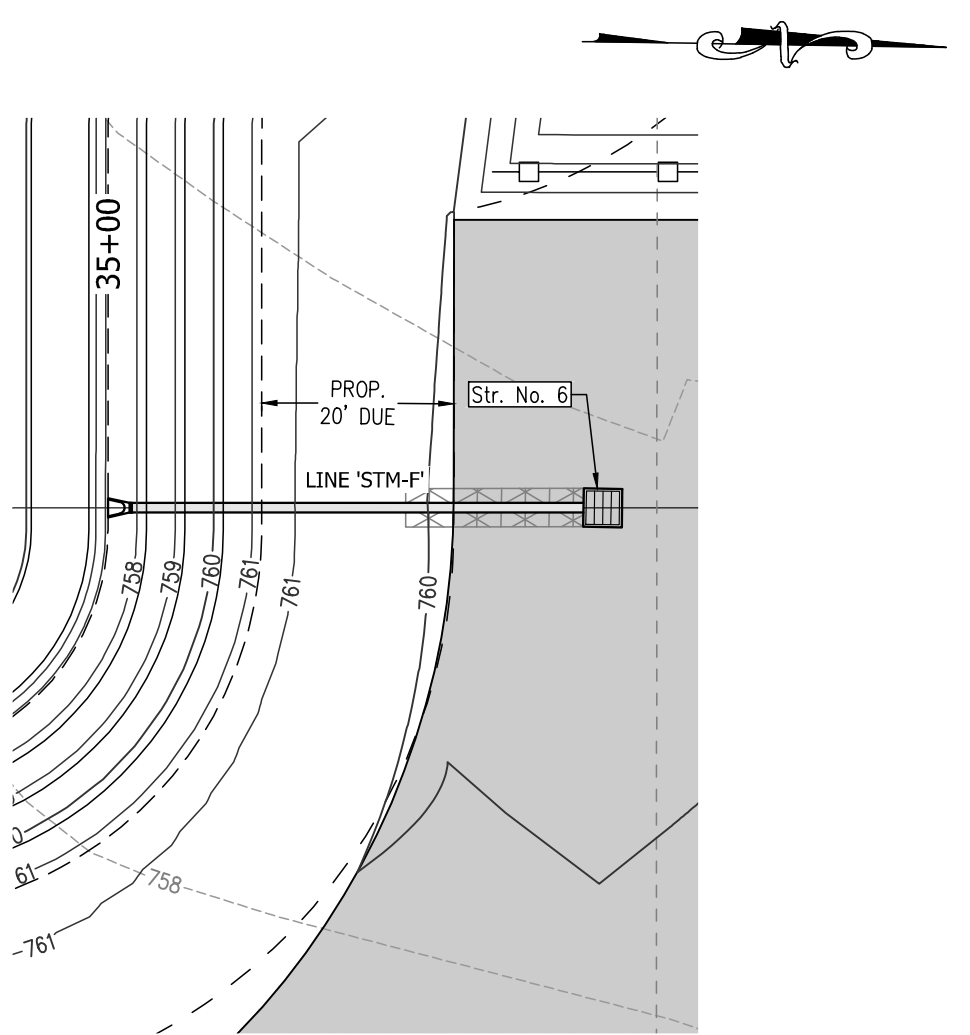
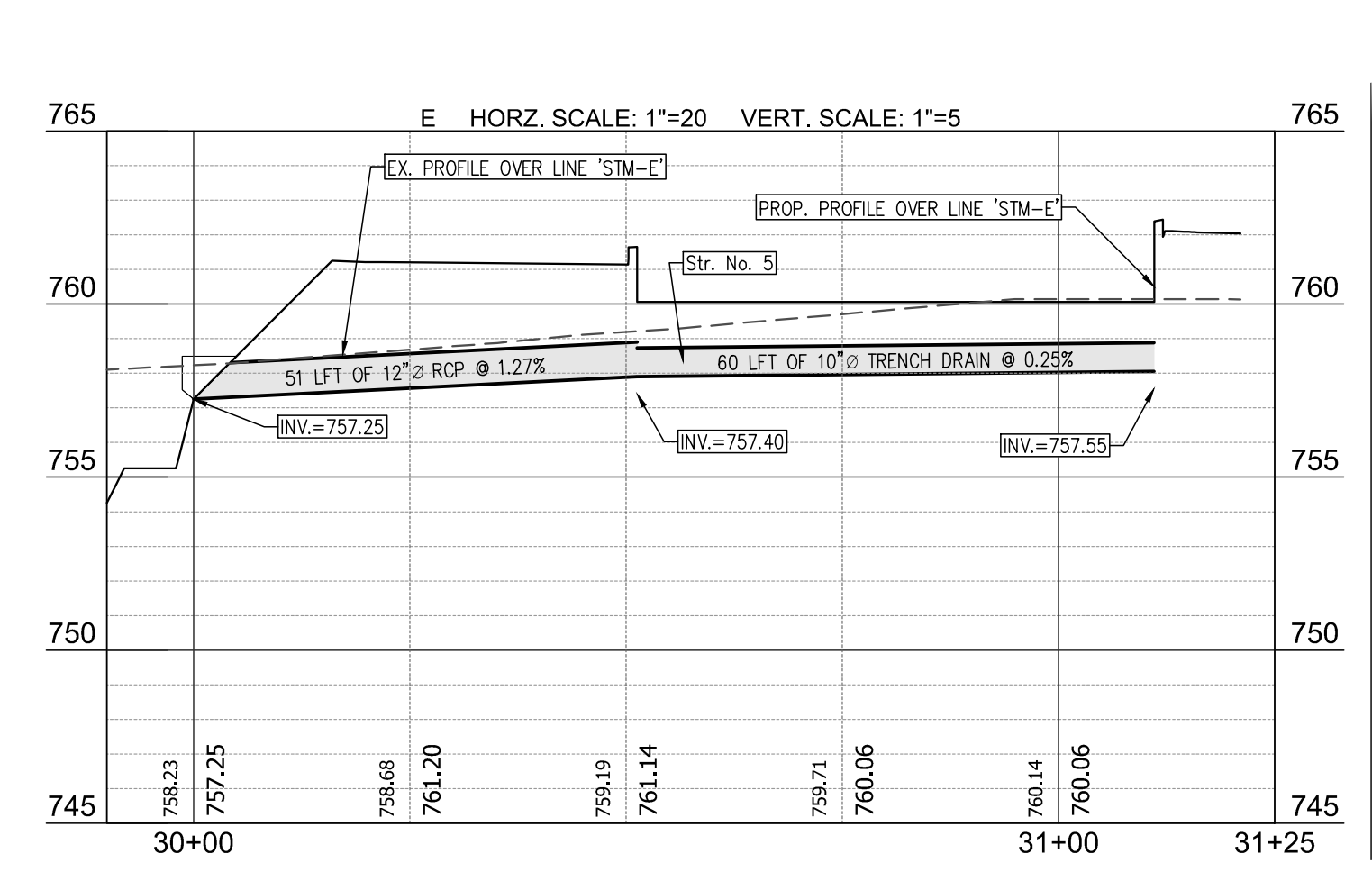
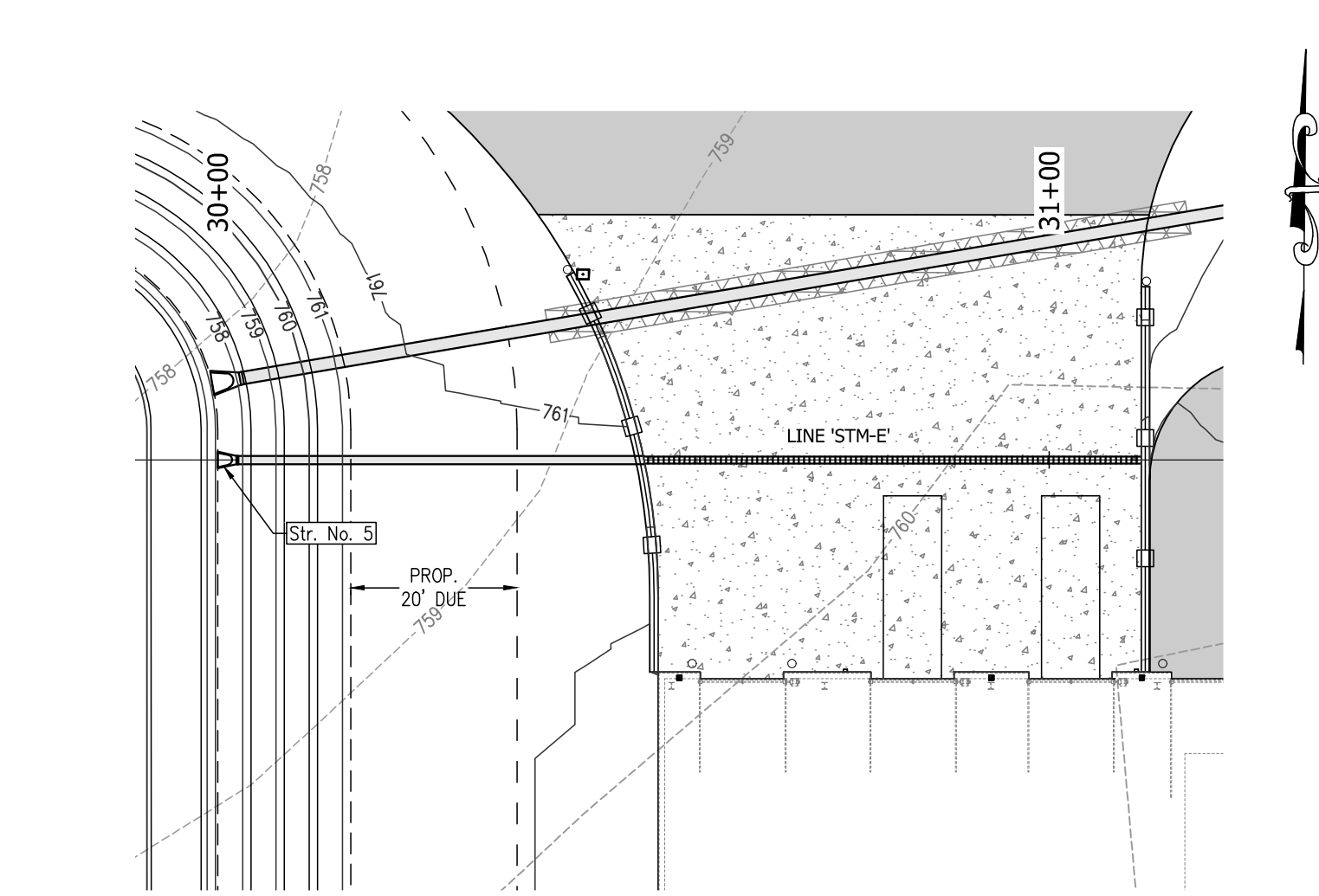
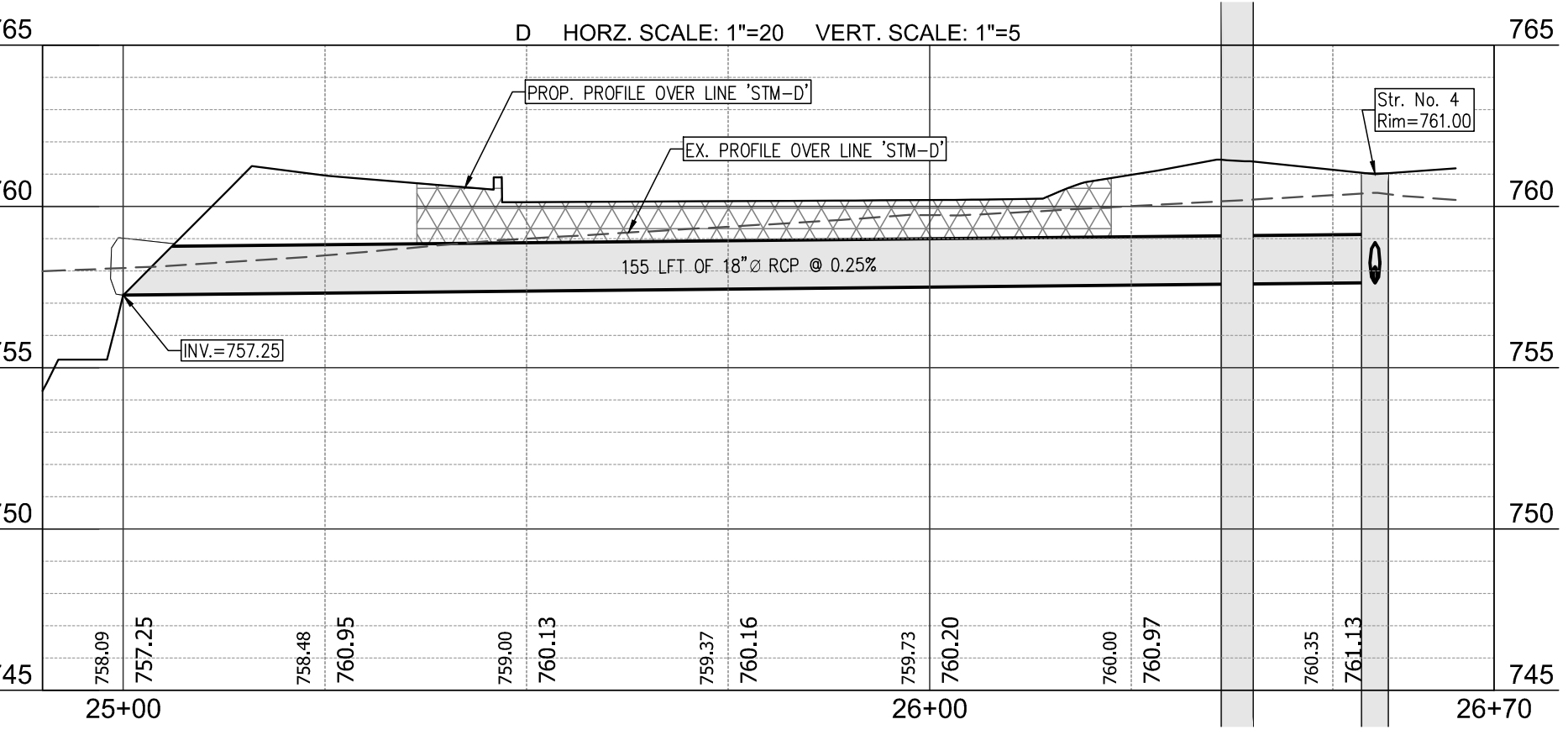
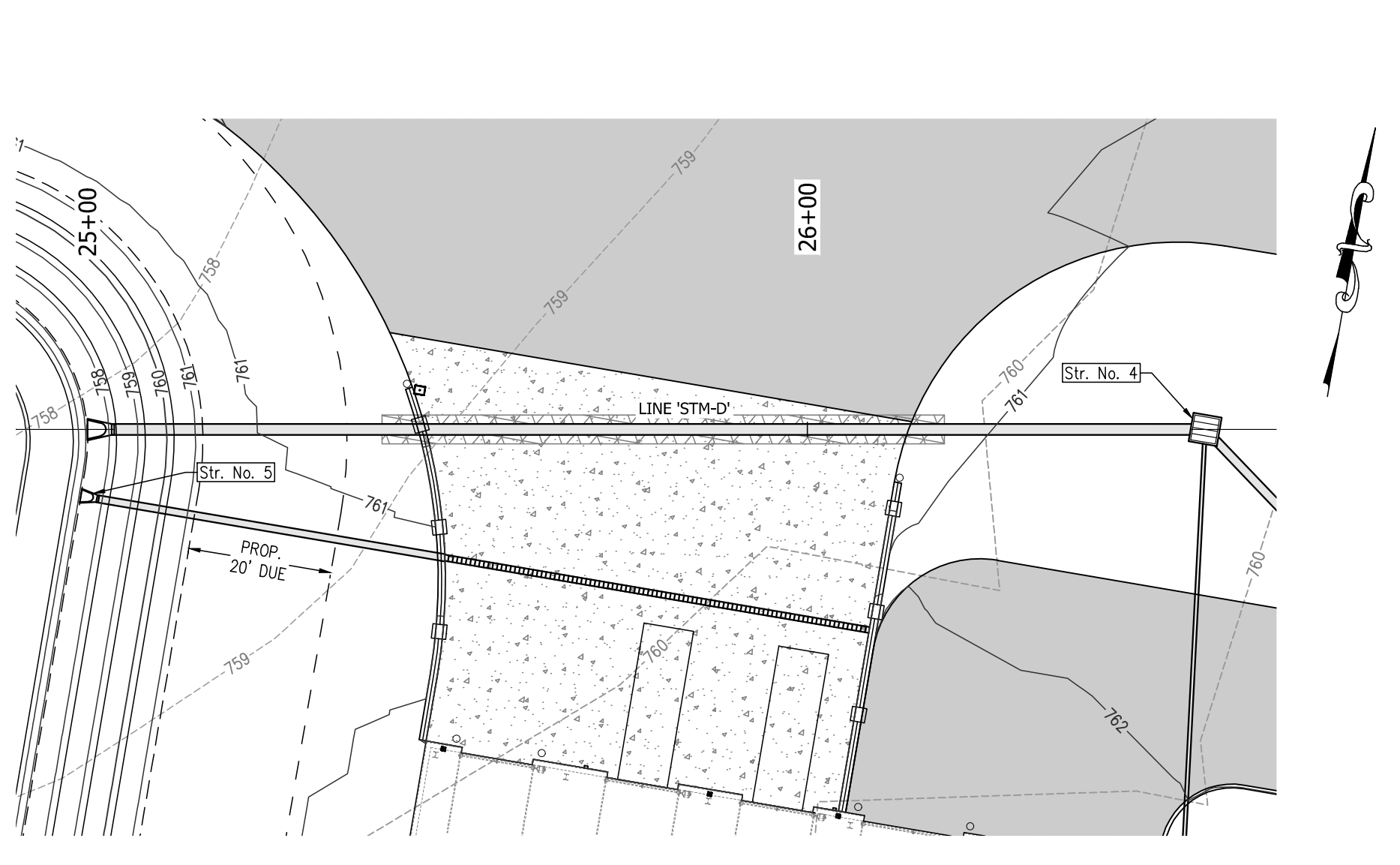
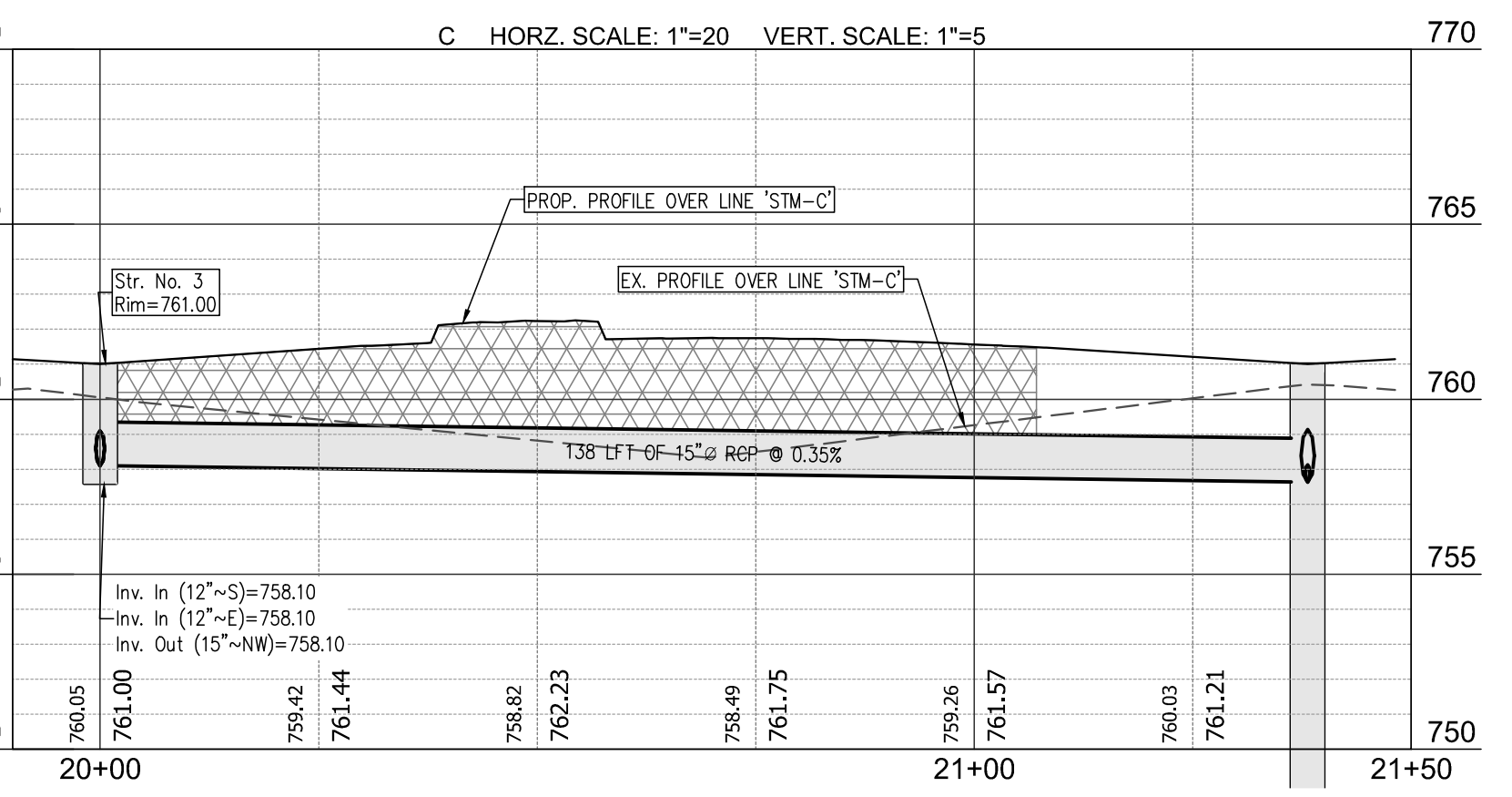
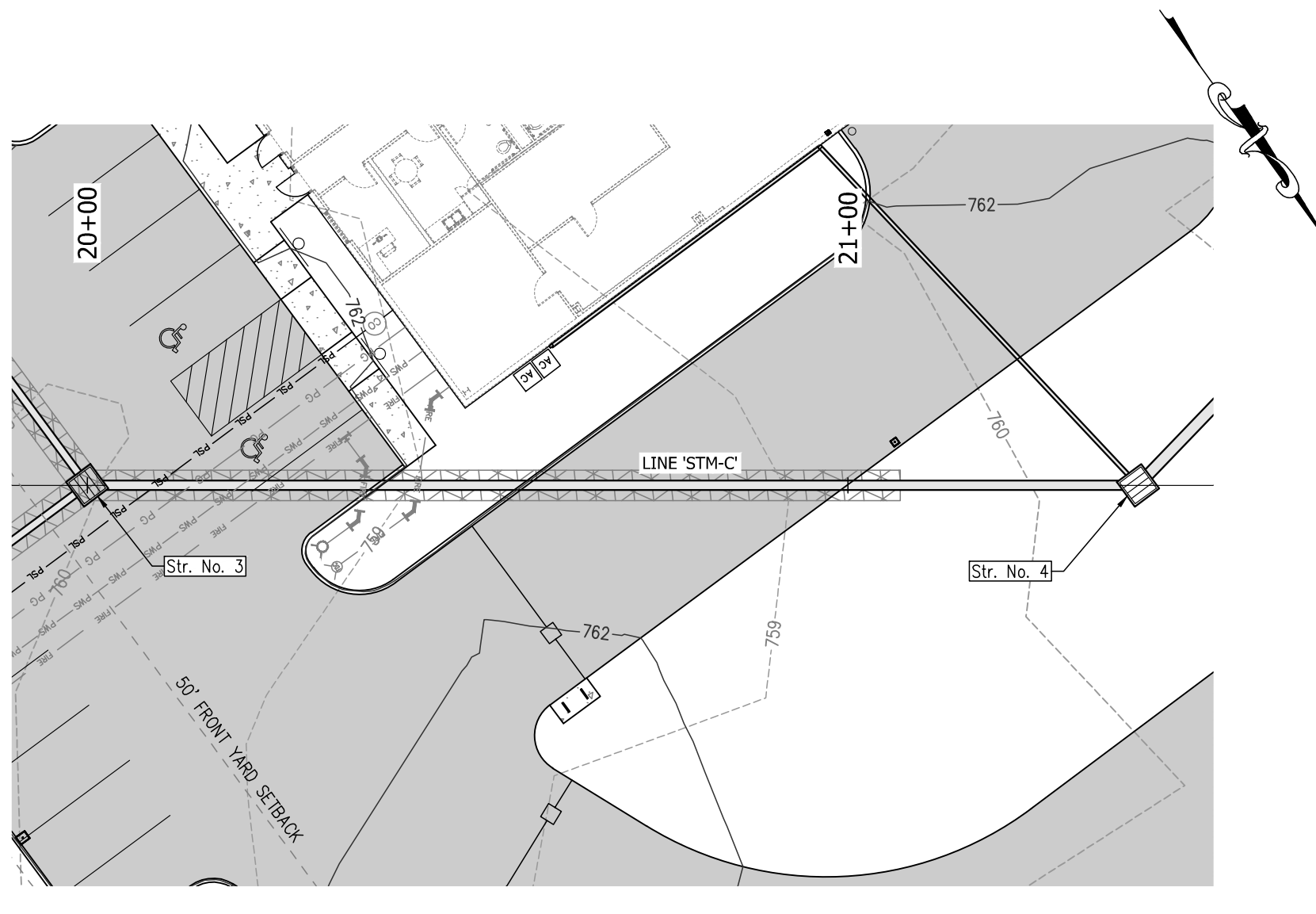
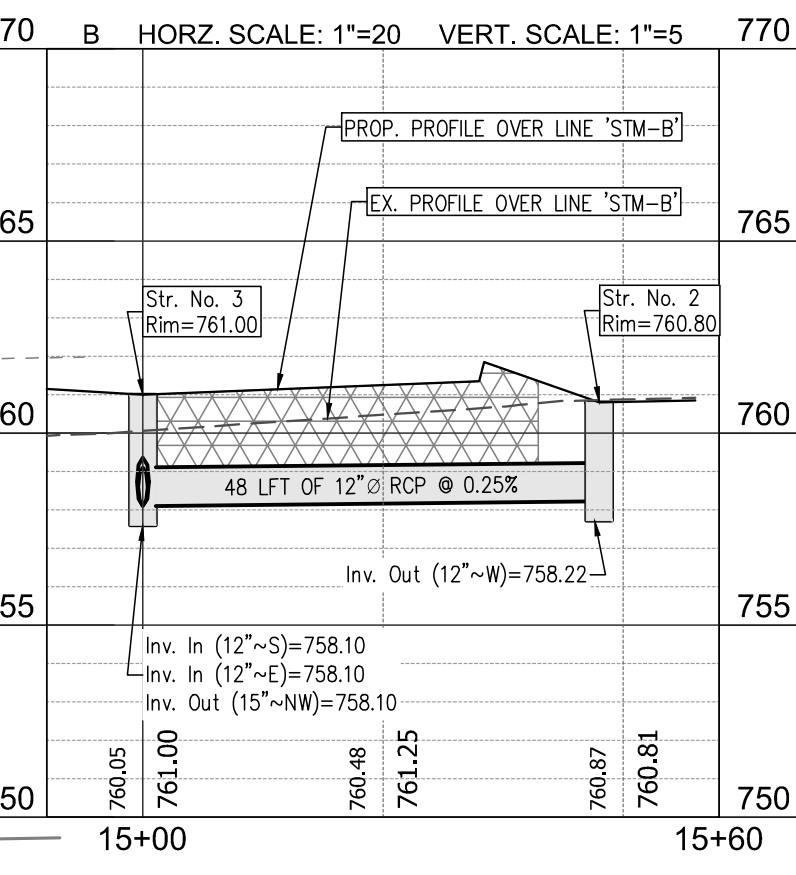
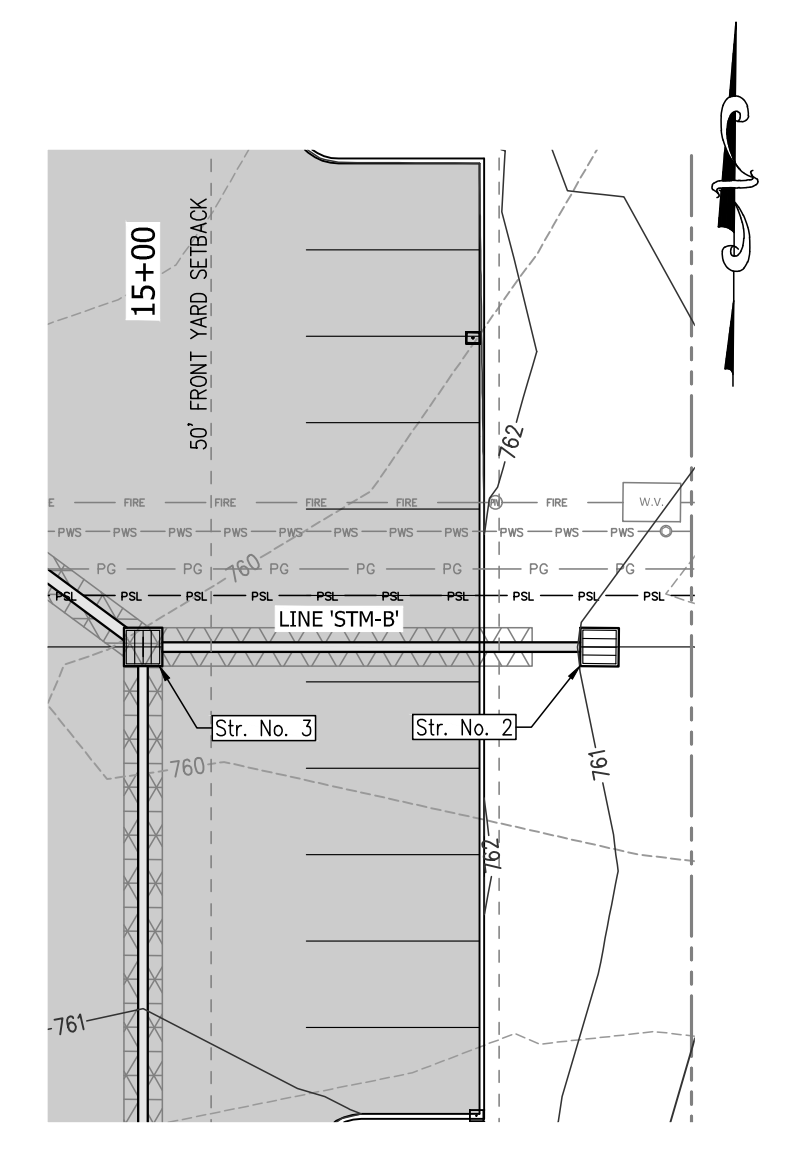
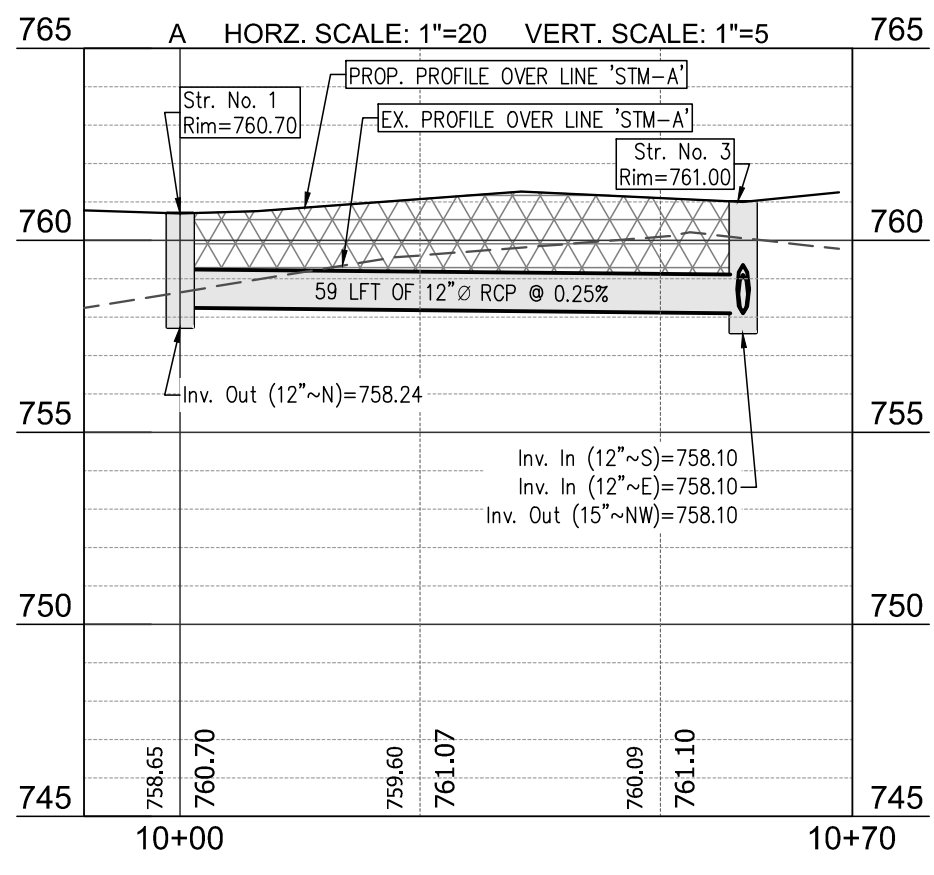
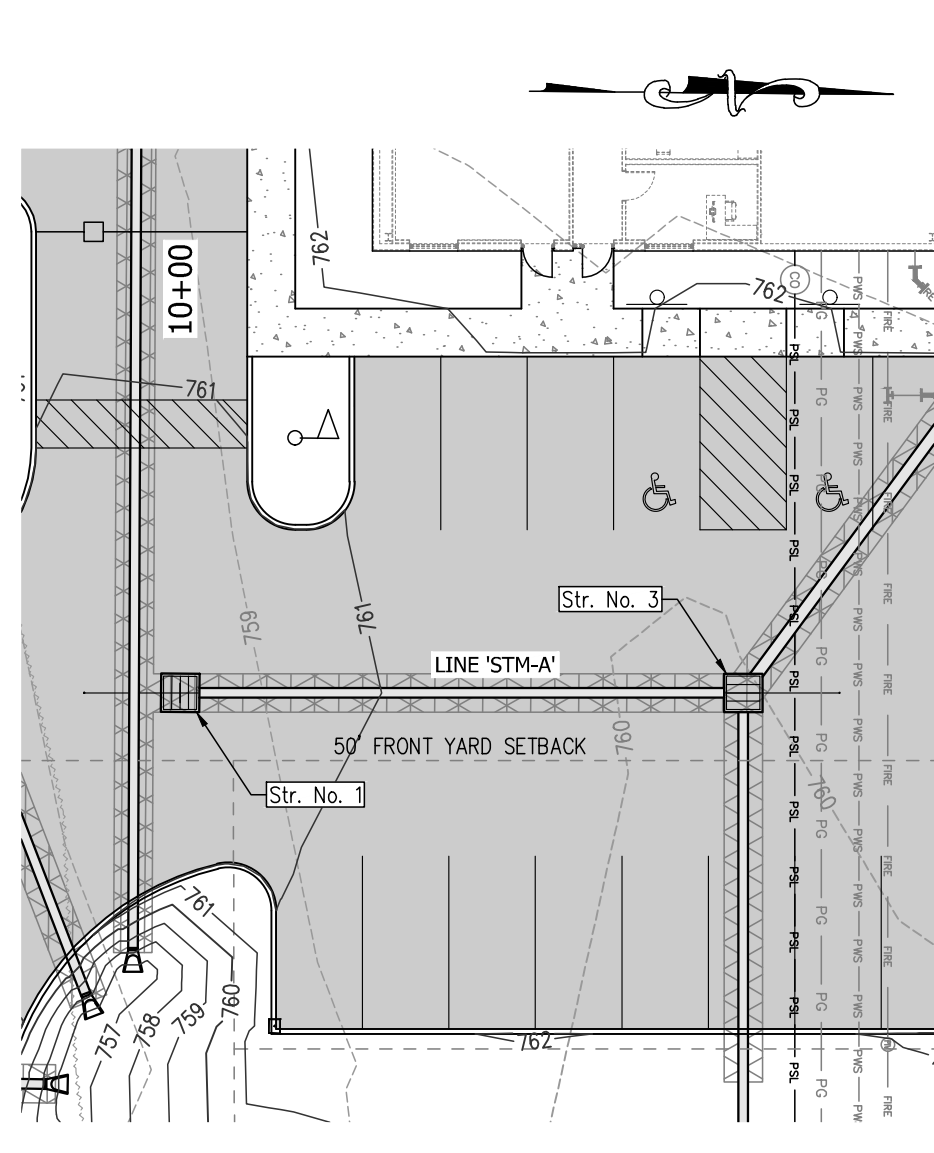


ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, CITY OR COUNTY OFFICIALS.

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



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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
- PIV
- FDC
- FIRE HYDRANT
- TEE
- 45° BEND
- GRANULAR BACKFILL ALONG STORM SEWER

NOTES

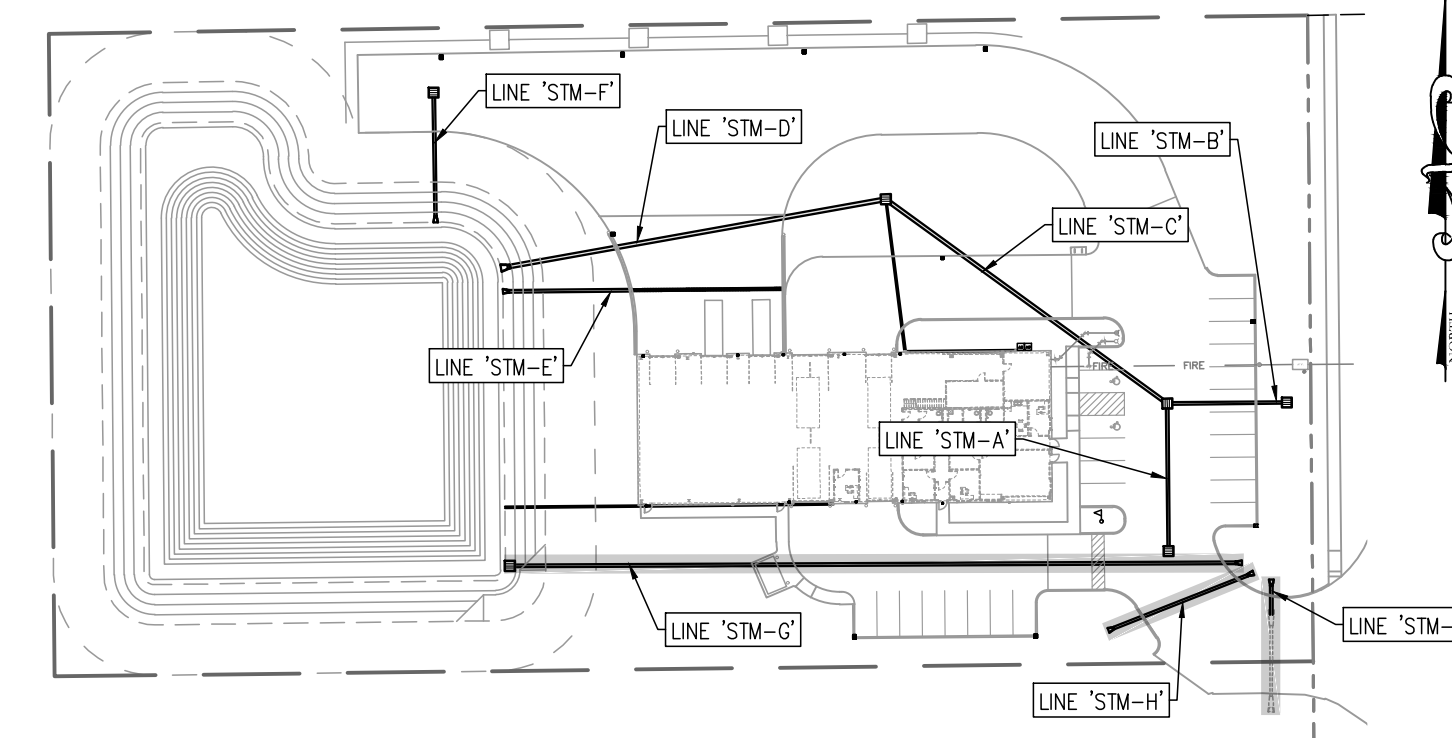
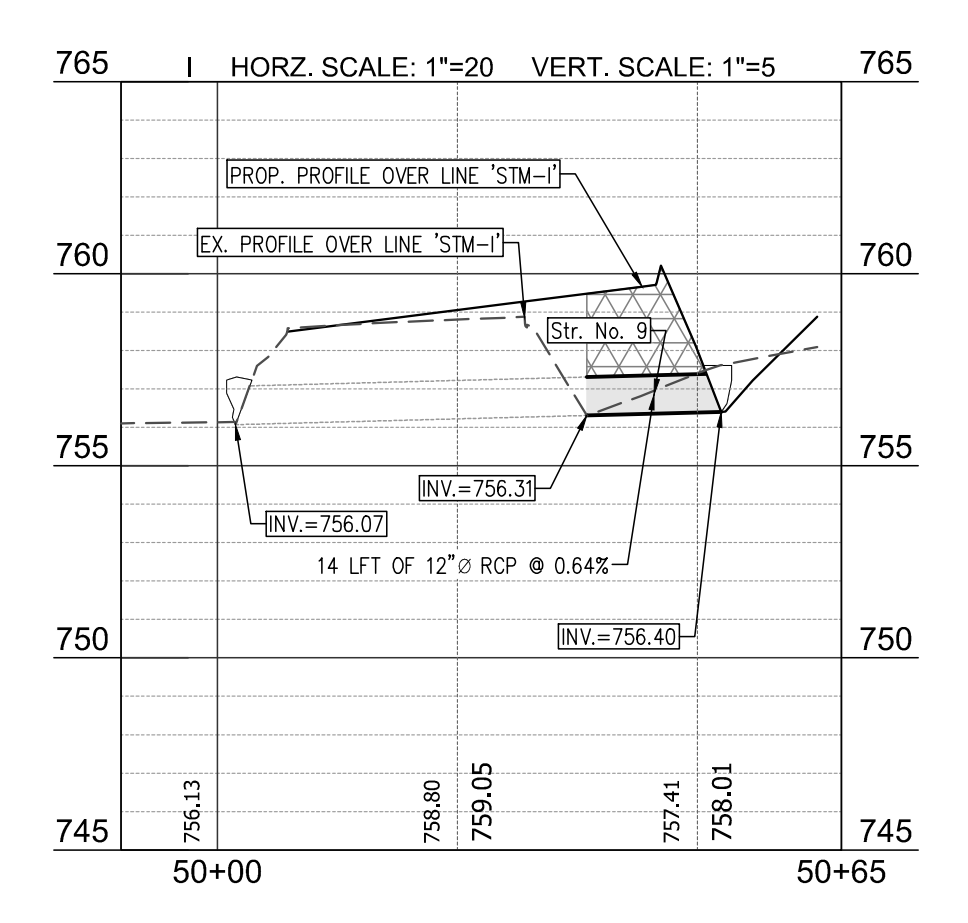
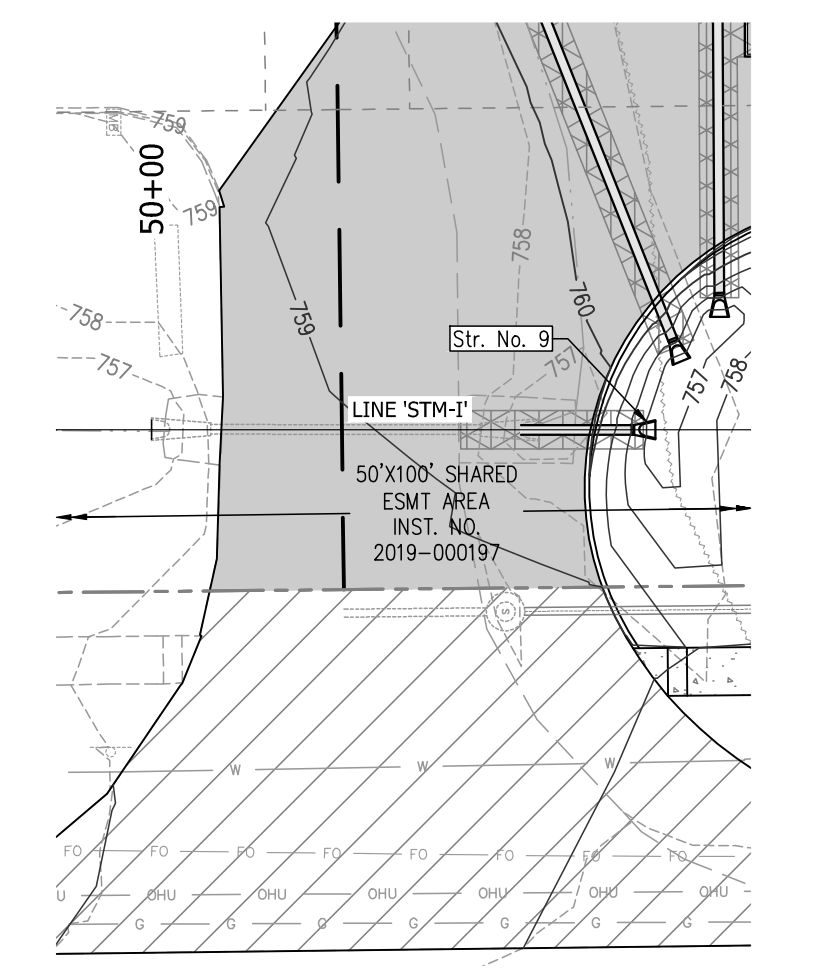
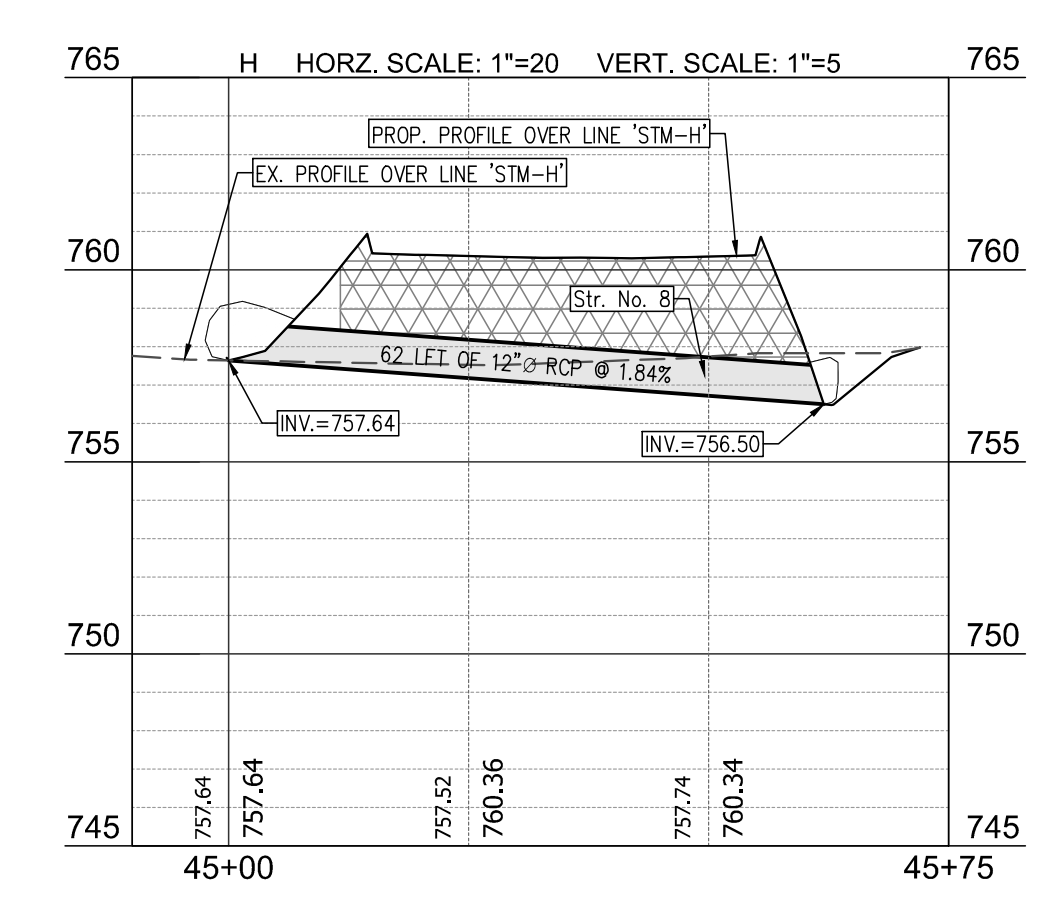
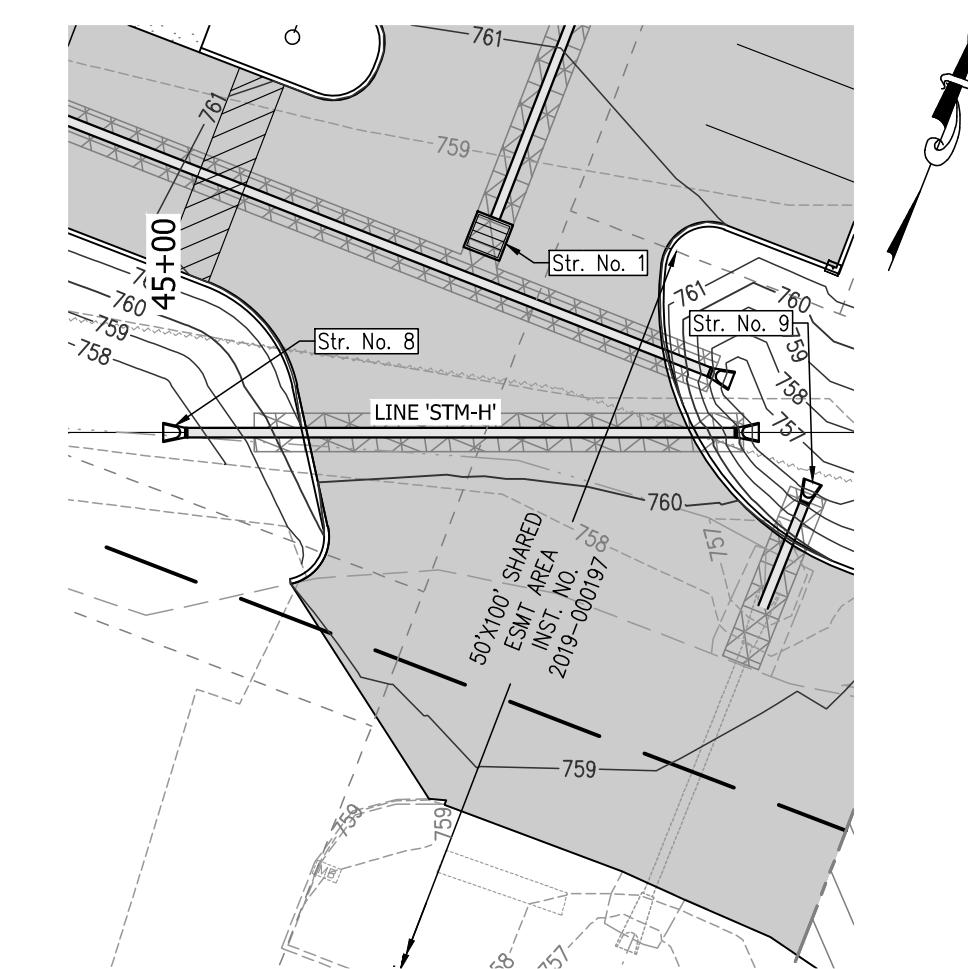
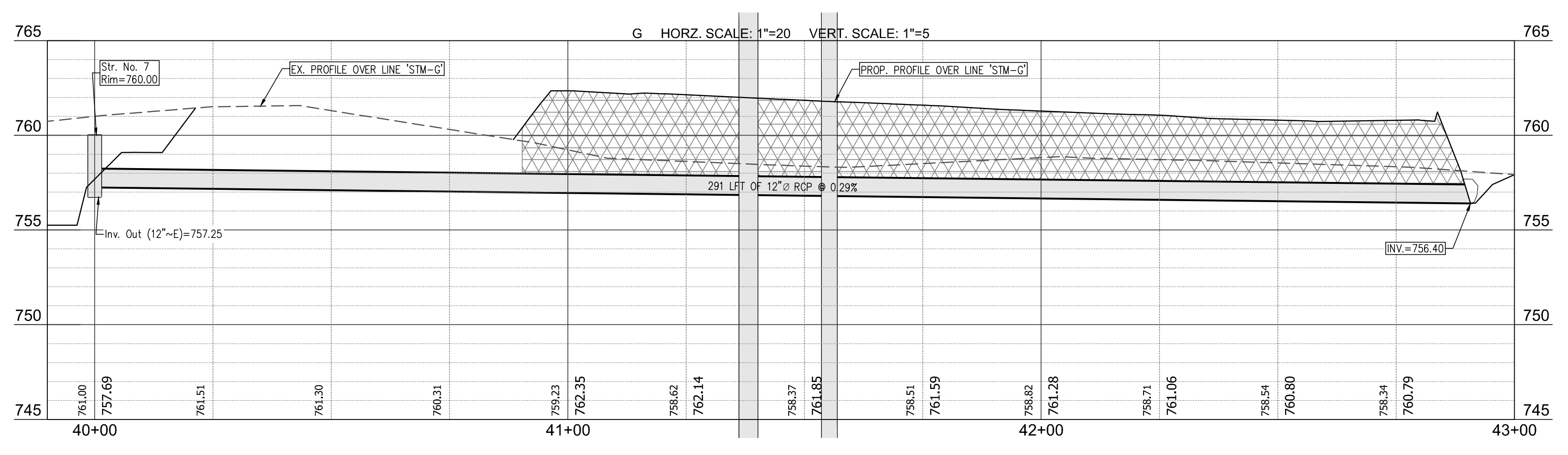
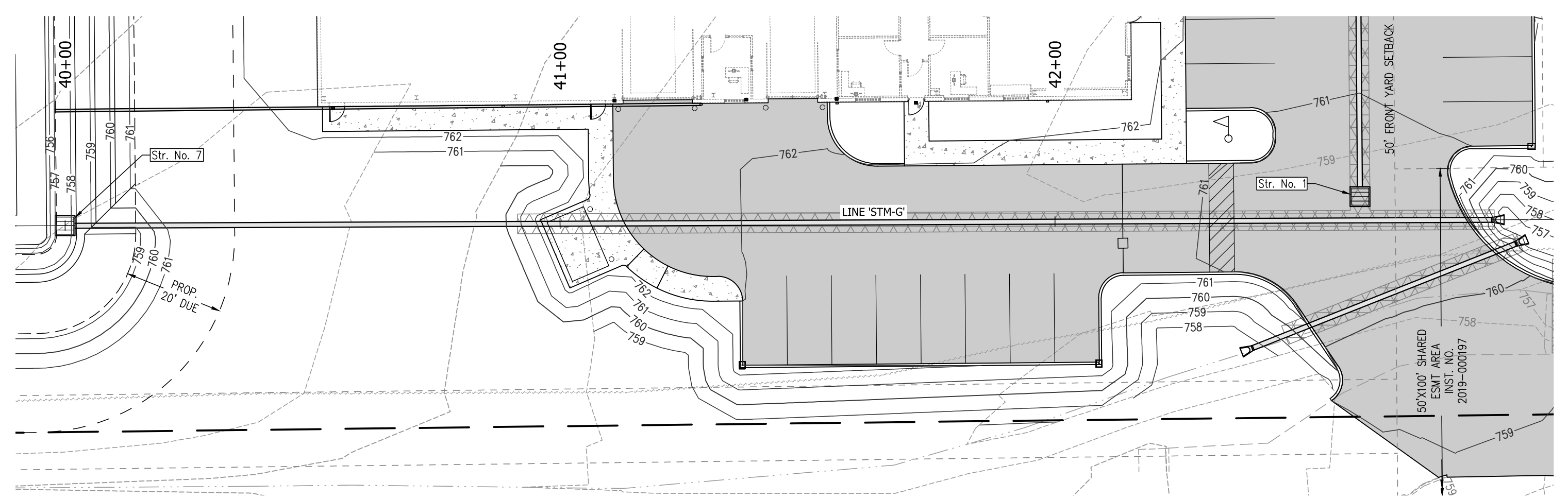
- ALL STORM SEWER CASTINGS SHALL INCLUDE AN EMBOSSED ENVIRONMENTAL LOGO WITH A DEPICTION OF A FISH AND THE PHRASE "DUMP NO WASTE-DRAINS TO STREAM".
- ALL STORM SEWER LOCATED WITHIN PUBLIC RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE (RCP), CLASS III, WITH TYPE B WALL THICKNESS, UTILIZING GASKET FITTINGS.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

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.

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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
- WATER VAULT
- FIRE HYDRANT
- 45° BEND
- TEE
- GRANULAR BACKFILL ALONG STORM SEWER

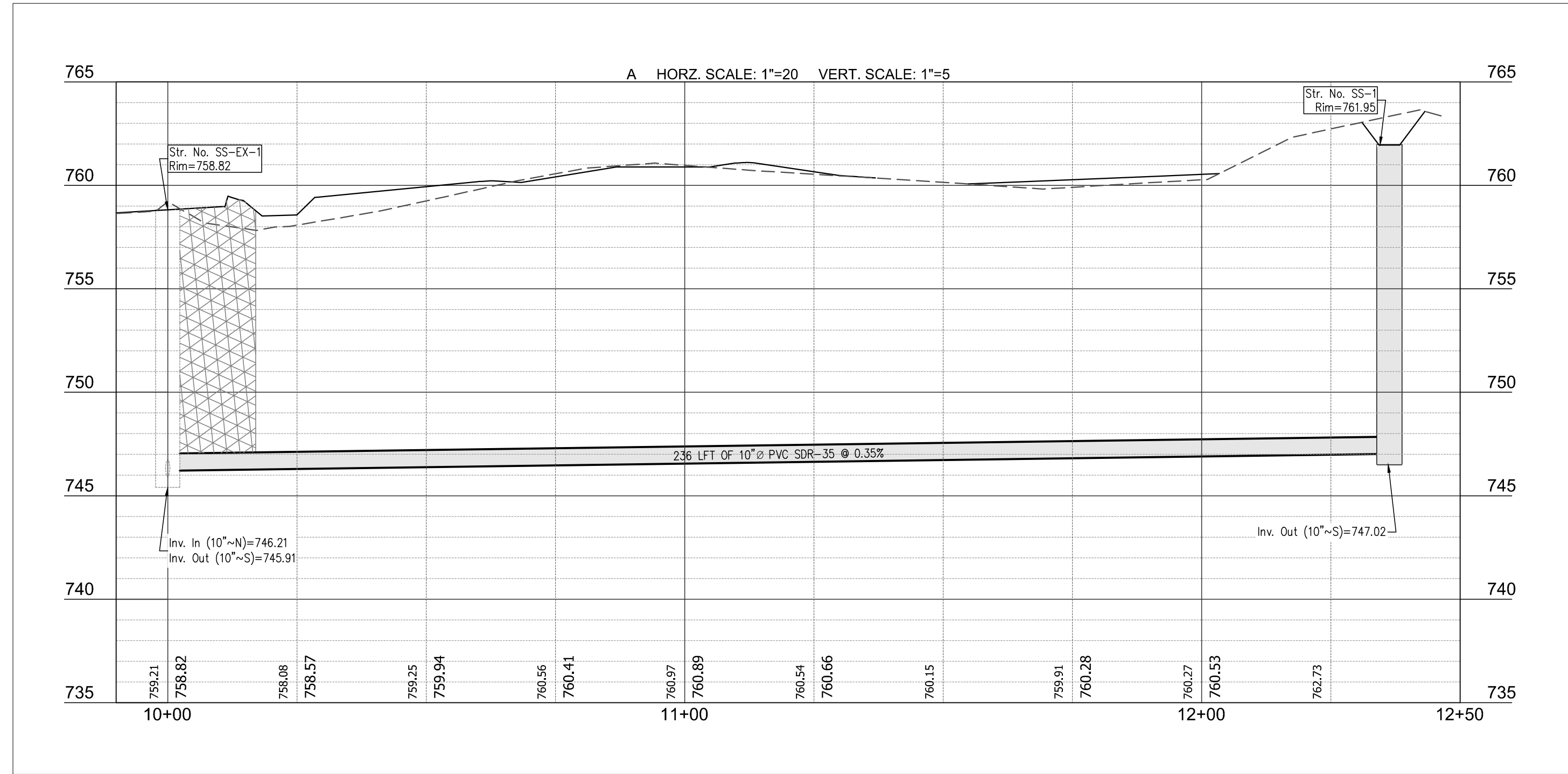
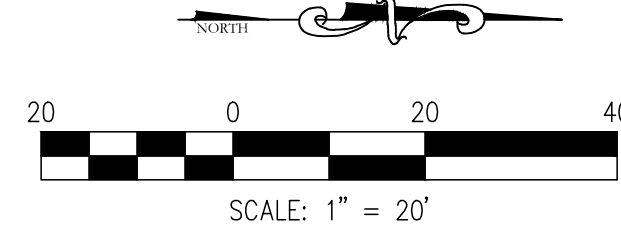
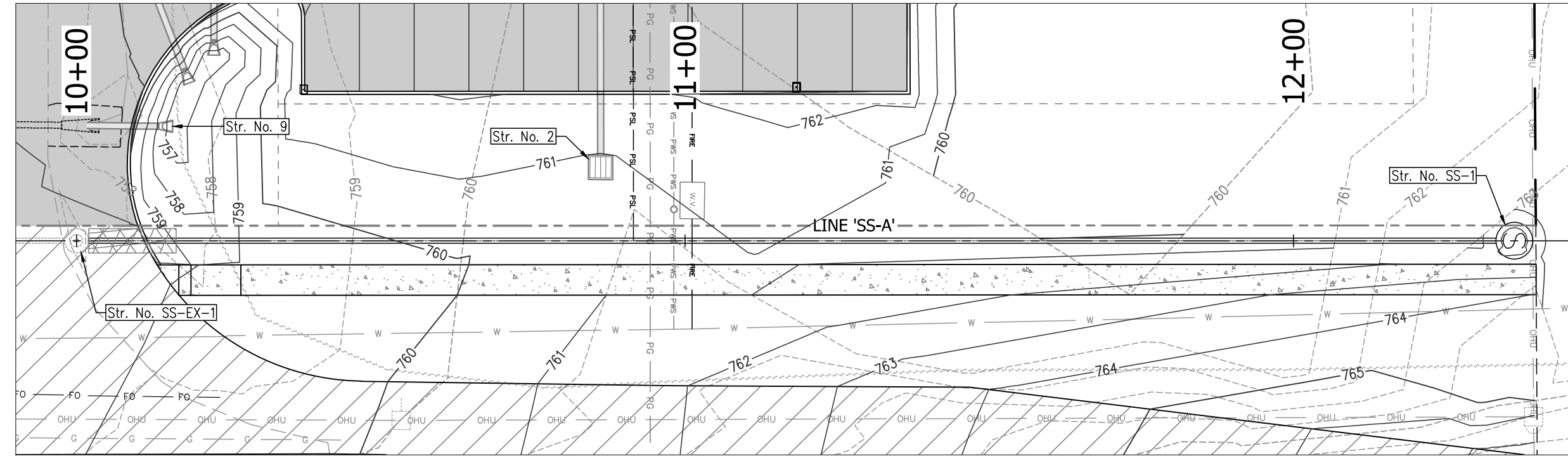
- NOTES**
- ALL STORM SEWER CASTINGS SHALL INCLUDE AN EMBOSSED ENVIRONMENTAL LOGO WITH A DEPICTION OF A FISH AND THE PHRASE "DUMP NO WASTE-DRAINS TO STREAM".
 - ALL STORM SEWER LOCATED WITHIN PUBLIC RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE (RCP), CLASS III, WITH TYPE B WALL THICKNESS, UTILIZING 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.

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.



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GRANULAR BACKFILL ALONG SANITARY SEWER

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

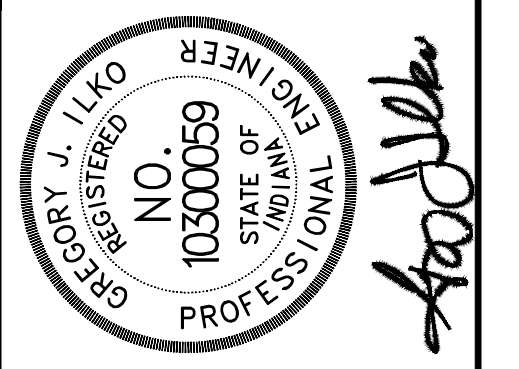
NOTE:
 CONTRACTOR TO FIELD VERIFY EXISTING ELEVATIONS OF STRUCTURE SS-1 PRIOR TO INSTALLATION OF ANY PROPOSED INFRASTRUCTURE. PROPOSED INVERT SHALL BE CORE DRILLED INTO EXISTING MANHOLE PER ALL REQUIRED FRANKLIN REQUIREMENTS

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

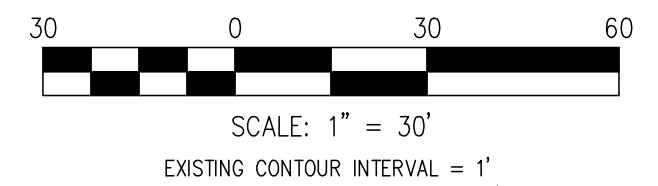
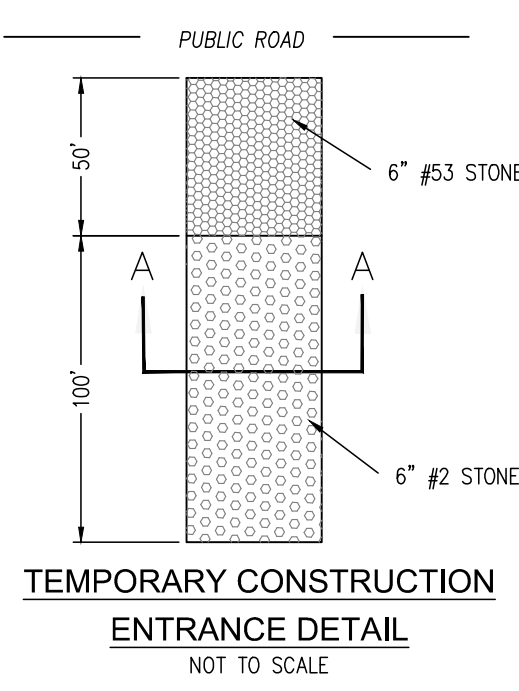
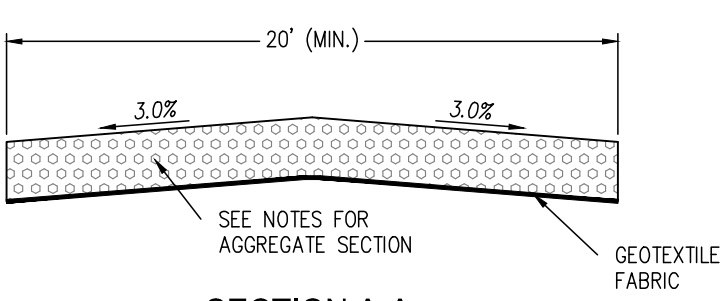
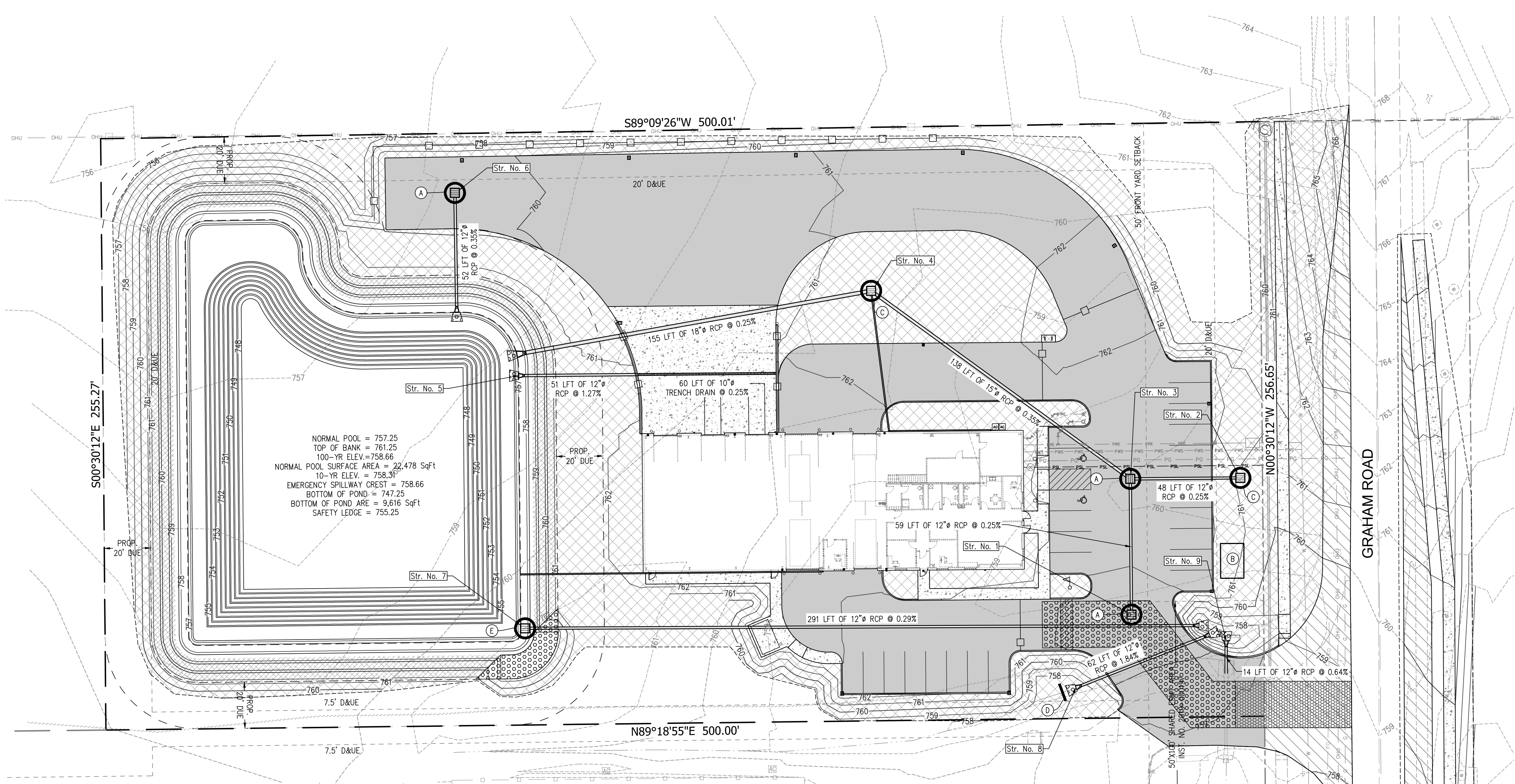
PROPOSED LEGEND	
	PROPERTY LINE
	SECTION LINE
	SETBACK LINE
	EASEMENT LINE
	FENCE LINE
	SANITARY SEWER LATERAL WITH CLEANOUT
	STORM SEWER W/INLET & END SECTION
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	WATER SERVICE LINE
	GAS LINE
	SIGN
	WATER VAULT
	45° BEND
	PIV
	FDC
	FIRE HYDRANT
	TEE



		CROSSROAD ENGINEERS, PC The Nation's Leading Development Consultants <small>101 N. 10th Street, Suite 200, Indianapolis, IN 46204</small>		SHEET 800
SANITARY PLAN AND PROFILE		CHECKED BTV	GJI	
JOHNSON COUNTY RECYCLE CENTER		DRAWN LMC	DESIGNED BTV	APPR. GJI
JOB No.	DATE	APRIL 11, 2024	DESIGNED	BTV
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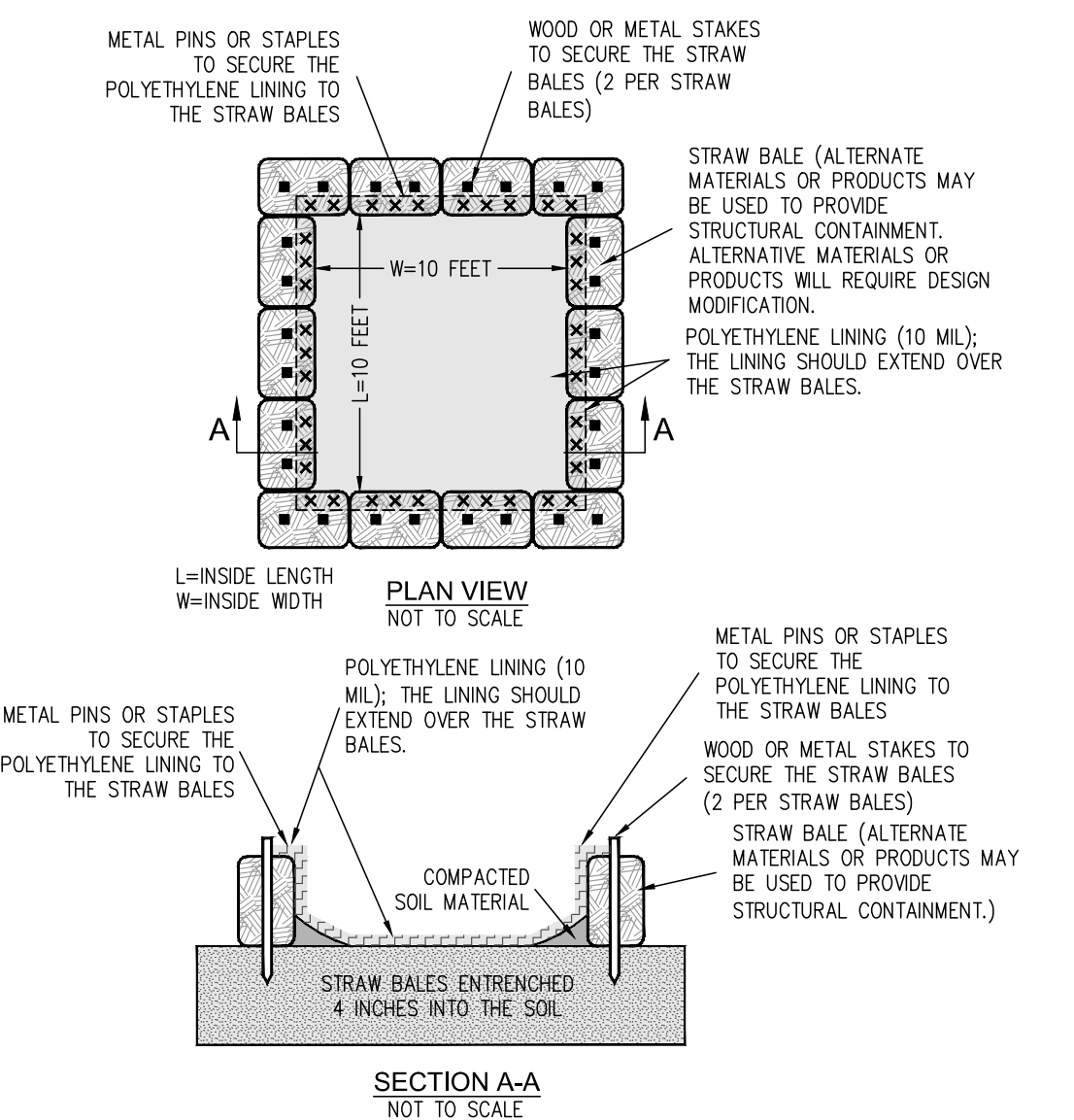
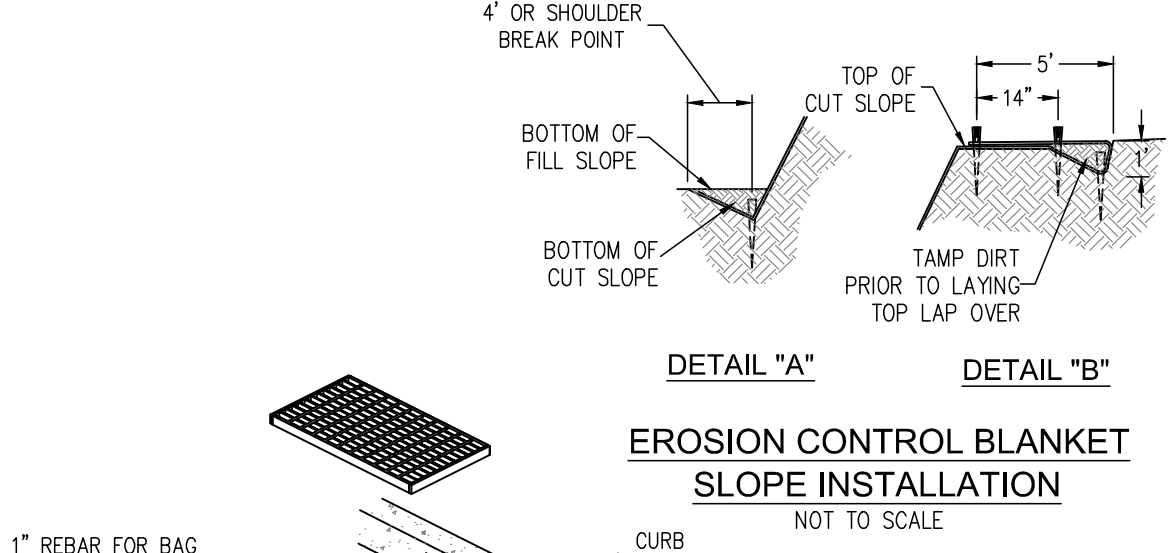
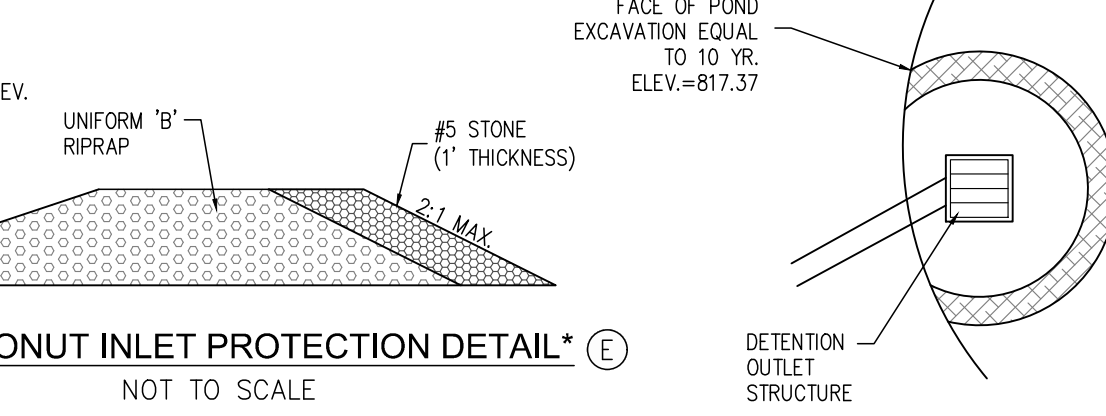
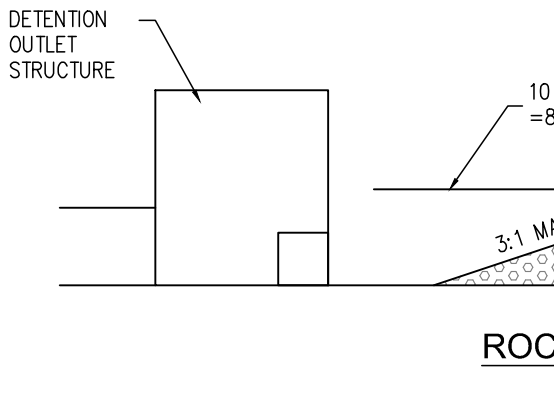
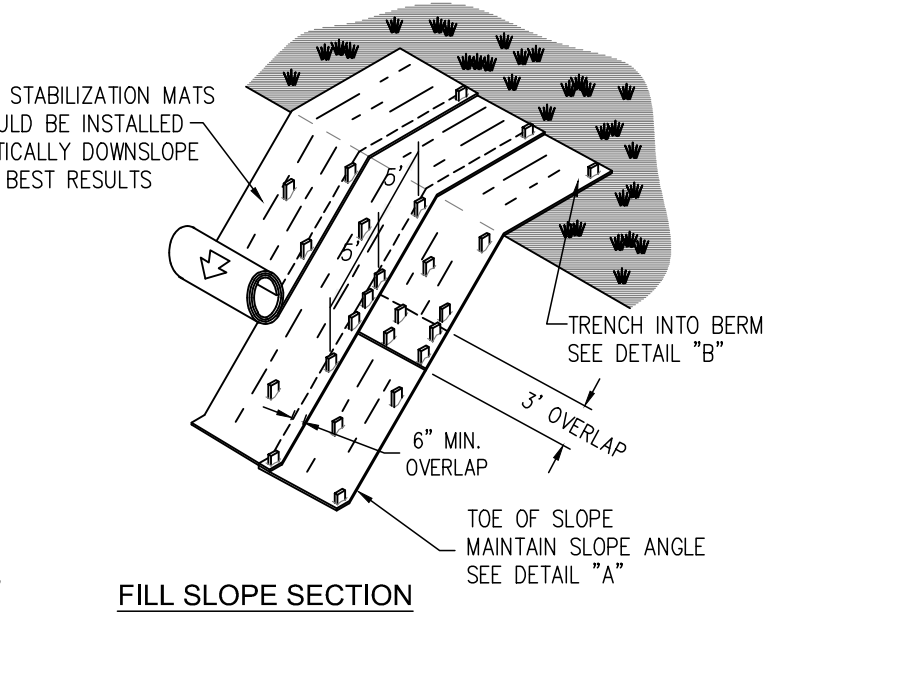
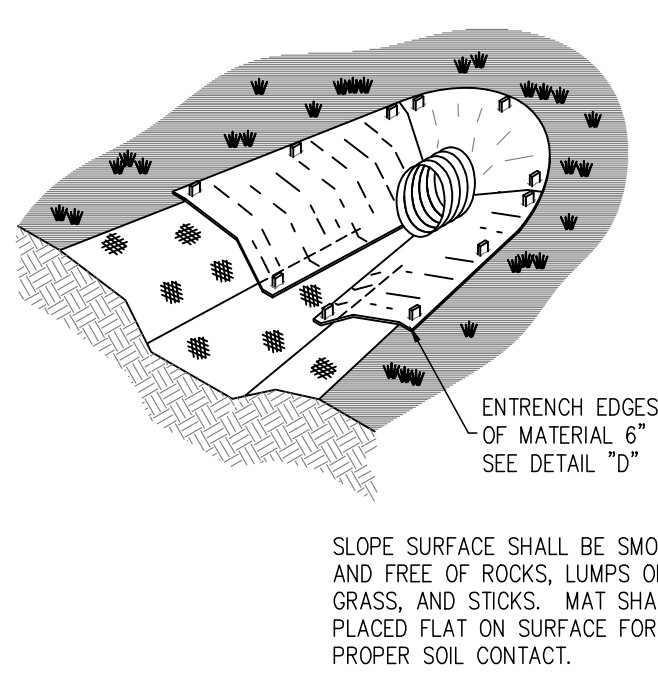
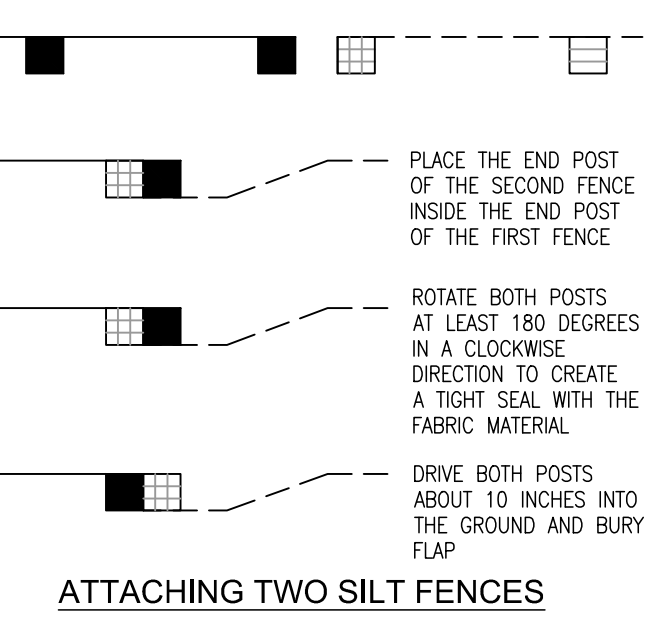
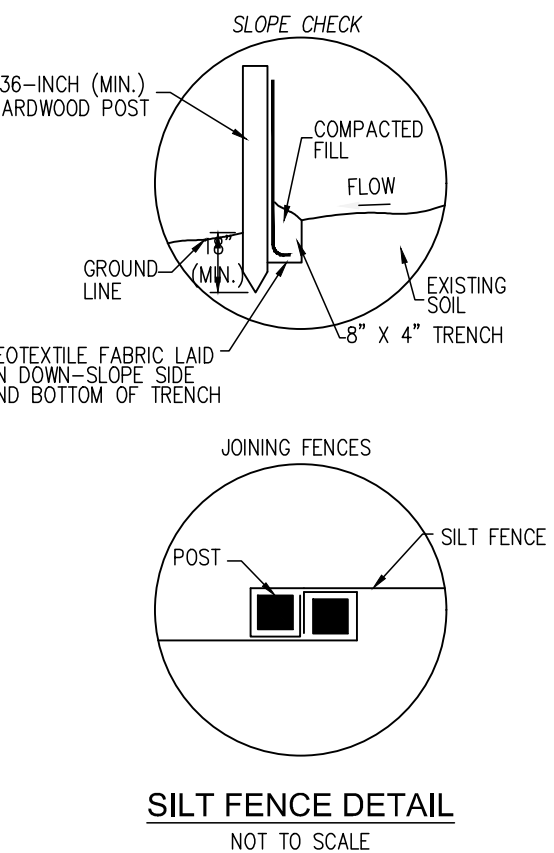
ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE OR COUNTY OFFICIALS

EROSION CONTROL LEGEND

- MULCHED SEEDING
- EROSION CONTROL BLANKET (NORTH AMERICAN GREEN SC-150 OR EQUAL) AND MULCHED SEEDING
- REVEMENT 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)

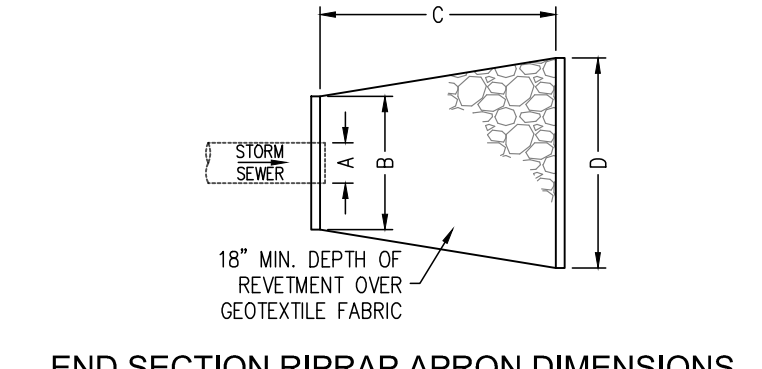
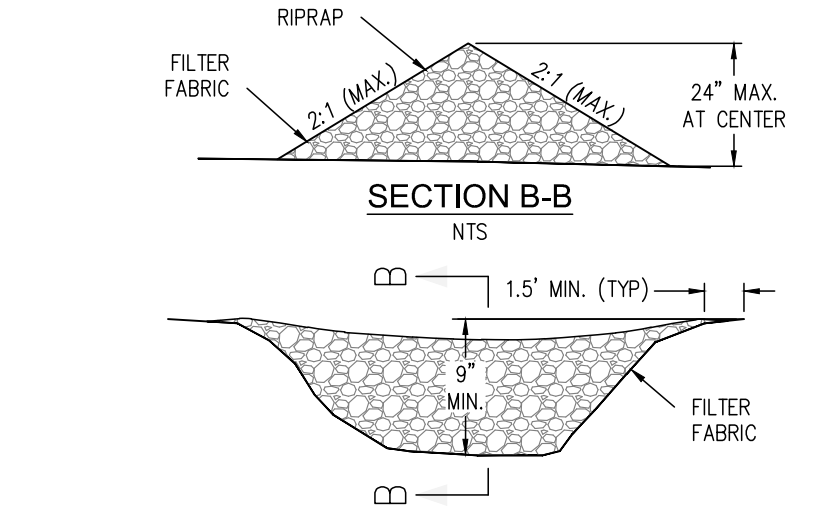
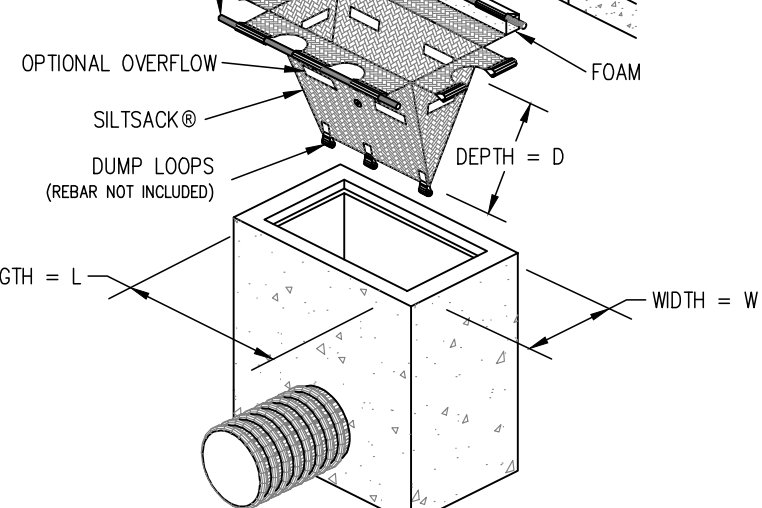
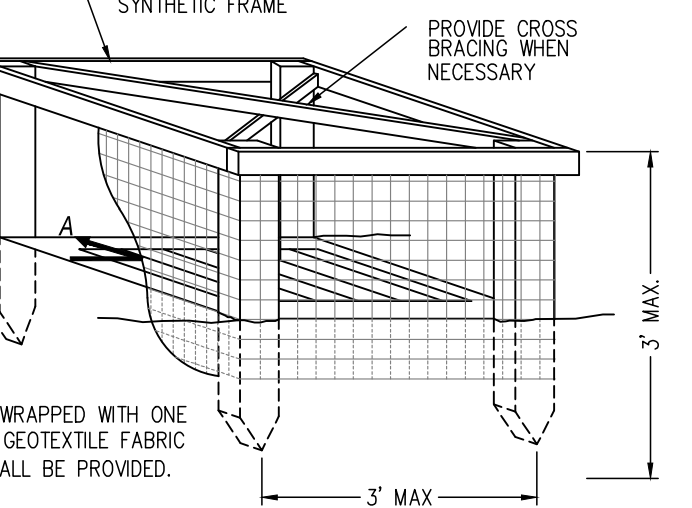
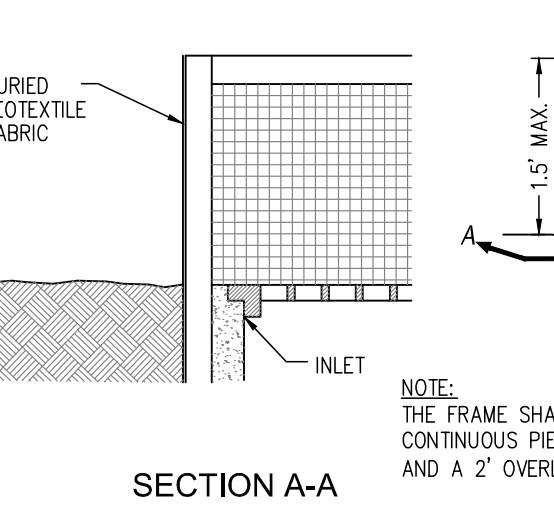
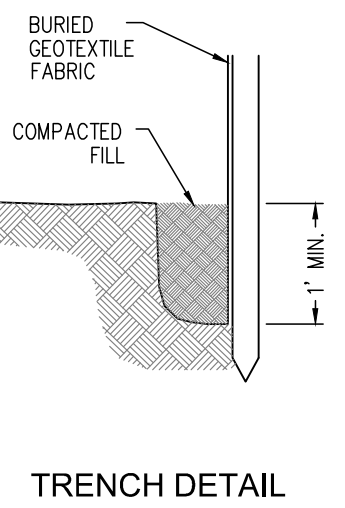
EROSION CONTROL NOTES

- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, COUNTY, OR LOCAL OFFICIALS.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.
- CONSTRUCTION STAGING AREA (TO BE DETERMINED BY CONTRACTOR) SHALL INCLUDE THE NOI POSTING, PORT-O-LETS, TRASH CONTAINERS, AND FUELING TANKS.
- 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.
- THERE SHALL BE NO DIRT, DEBRIS, OR STORAGE OF MATERIALS WITHIN THE EXISTING STREET OR RIGHT-OF-WAYS.
- ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL AND THE S.C.S. "FIELD OFFICE TECHNICAL GUIDE".
- ALL STORM WATER CASTINGS SHALL BE PHASE II COMPLIANT.
- CONTRACTOR SHALL UTILIZE 12 OZ./SQ. YD. MINIMUM WEIGHT, NON-WOVEN NEEDLE PUNCHED GEOTEXTILE FABRIC BENEATH ALL RIPRAP USED FOR OUTLET PROTECTION.



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

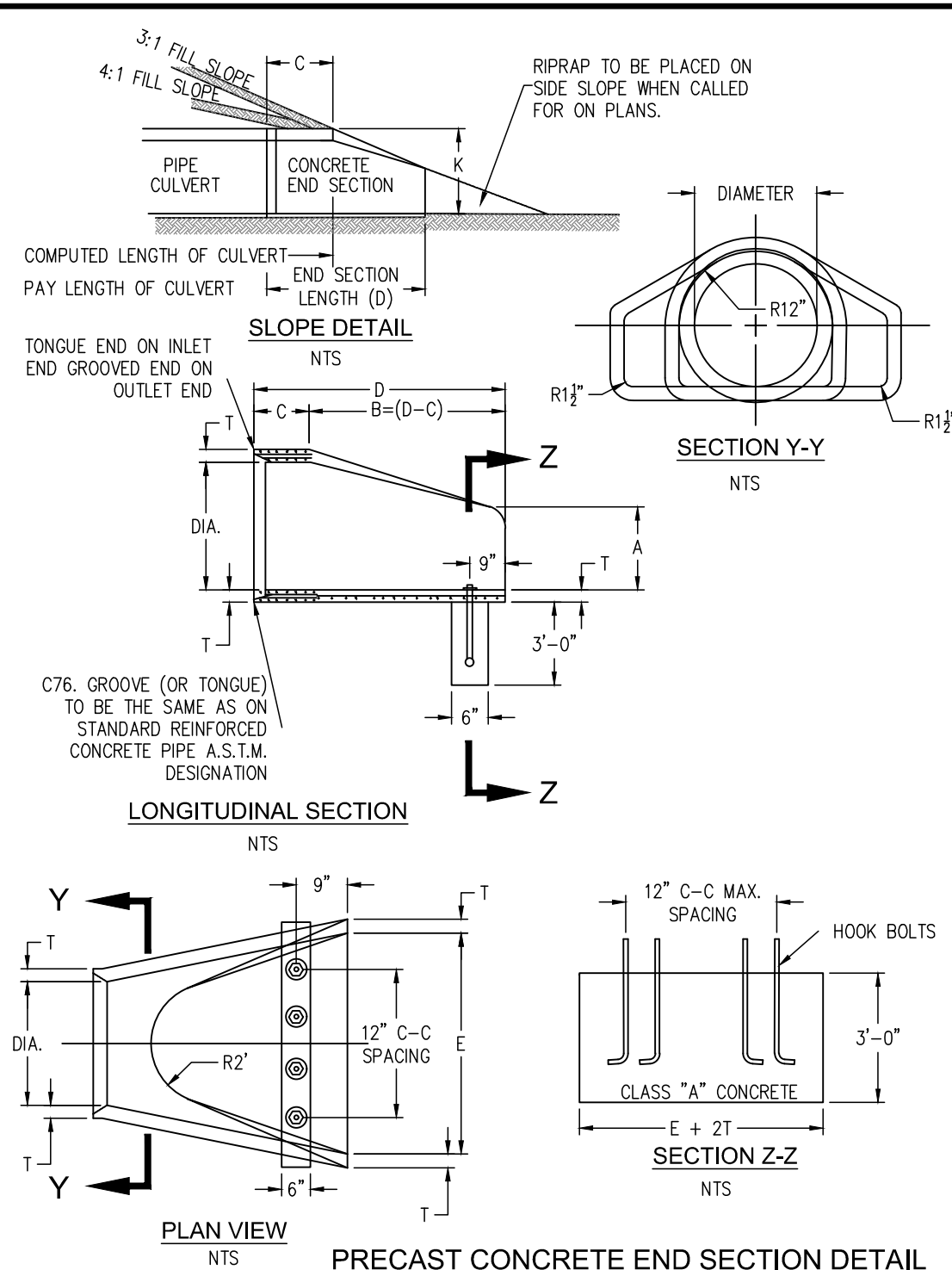
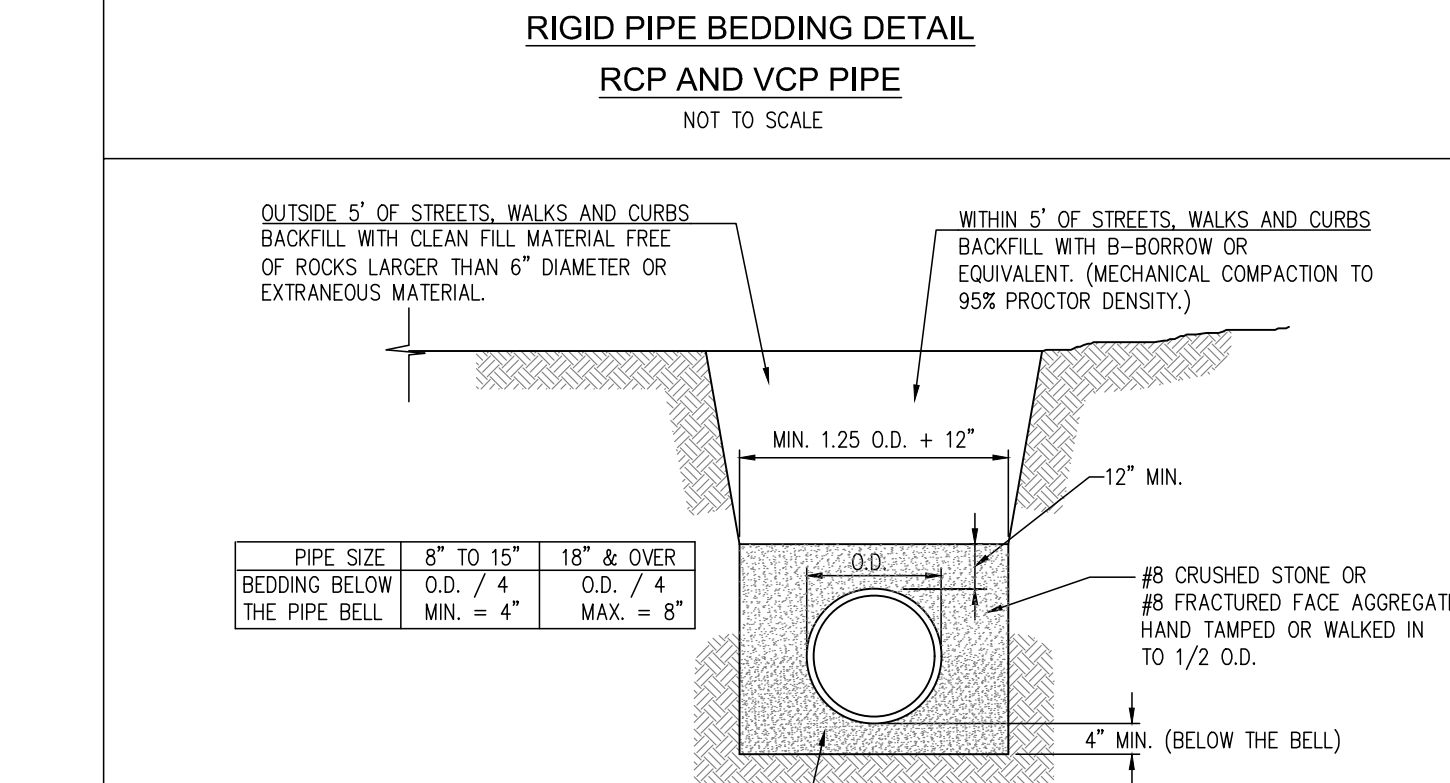
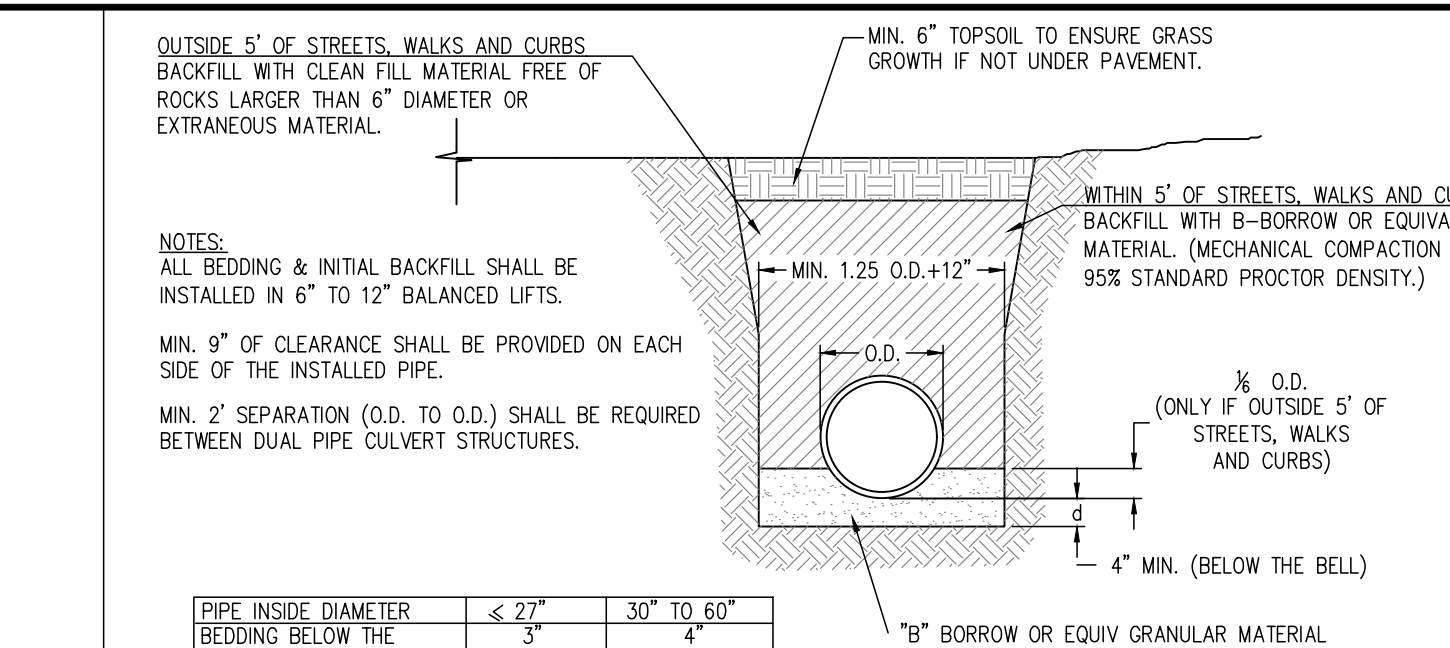
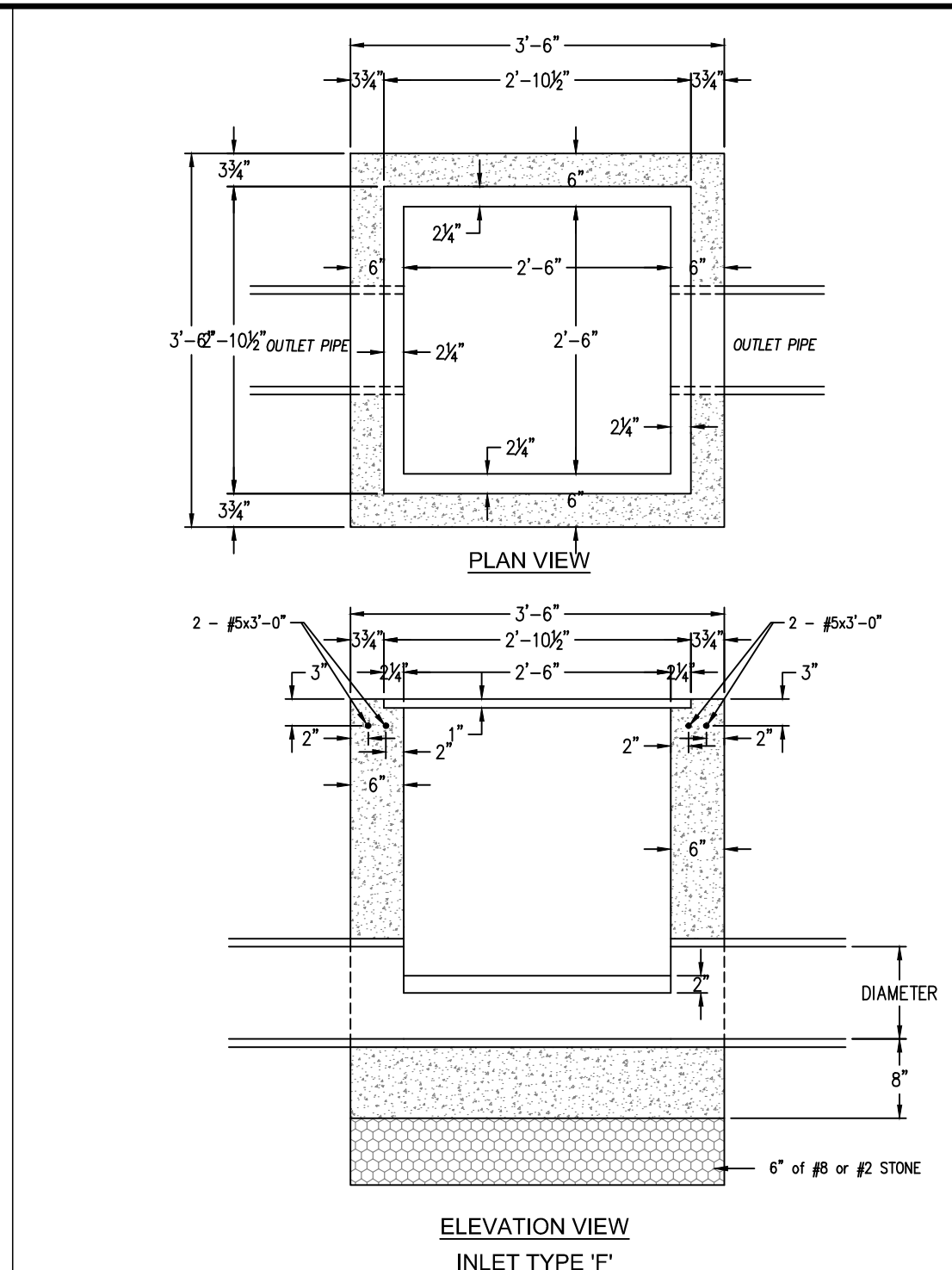
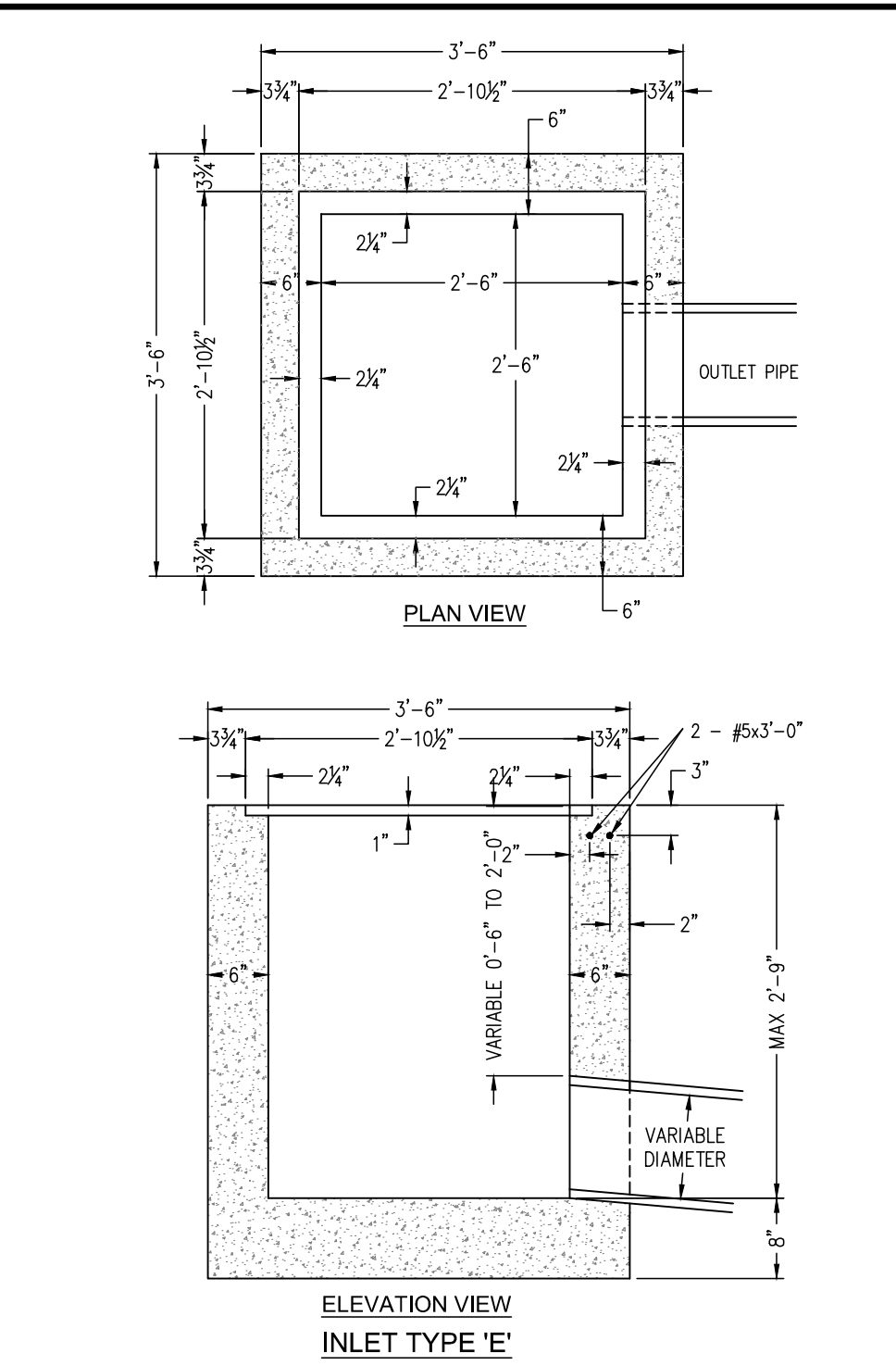
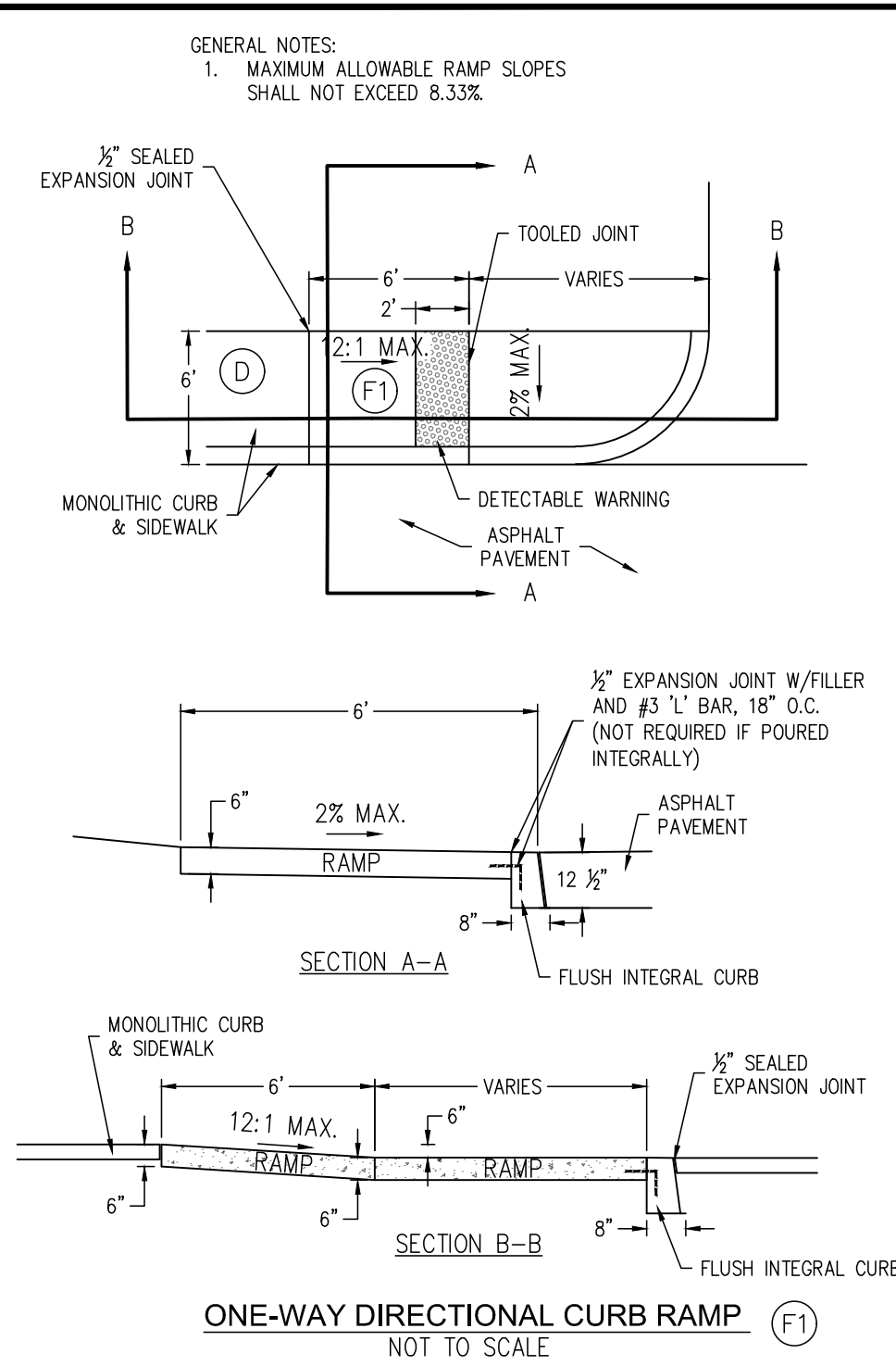
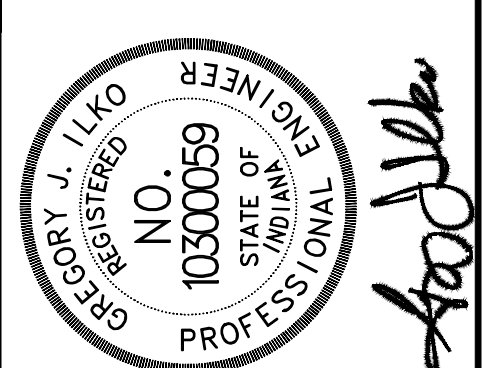
NOTE:
NO EARTHWORK OR DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.



CONCRETE WASHOUT DETAIL
NOT TO SCALE

PIPE OUTLET NO.	A	B	C	D	REVEMENT (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

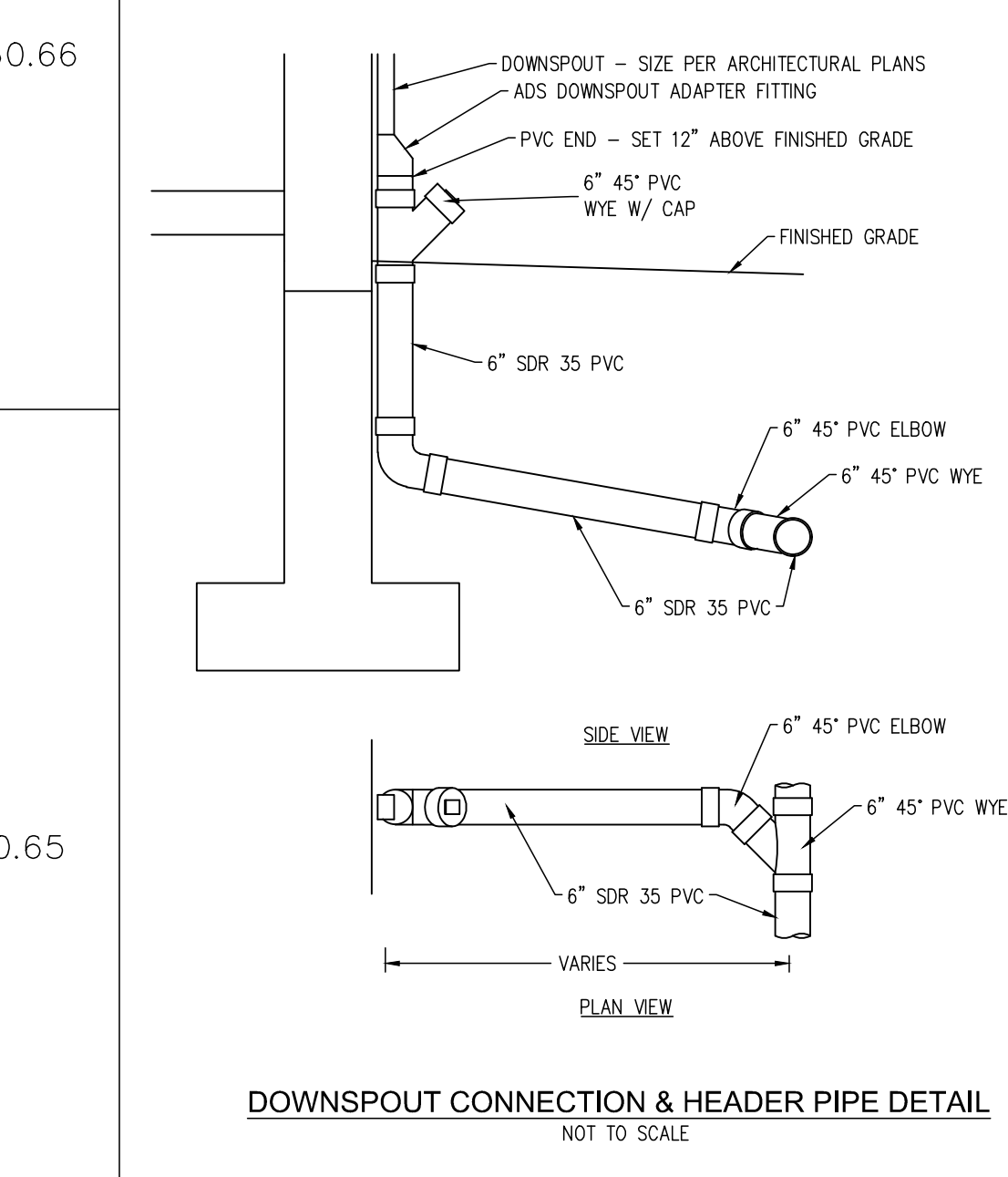
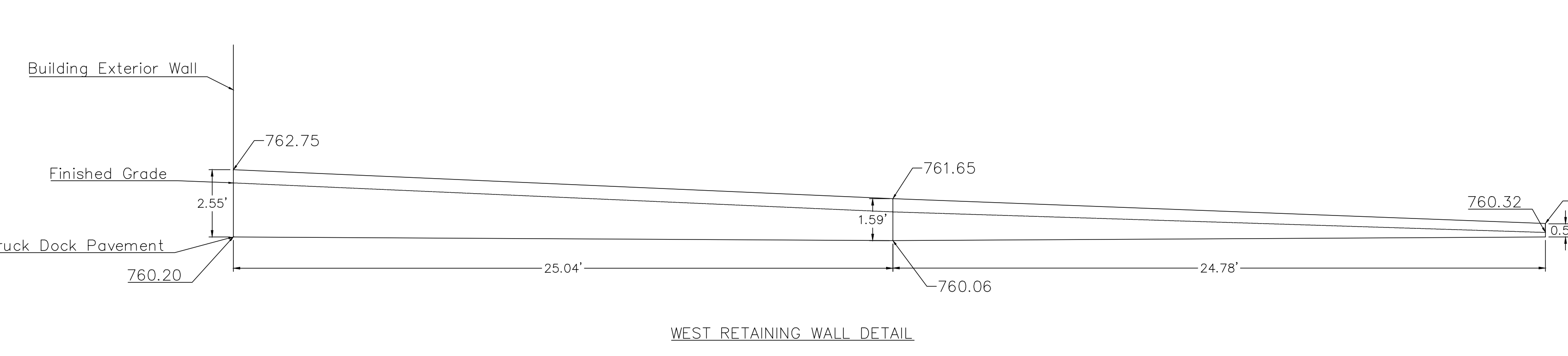
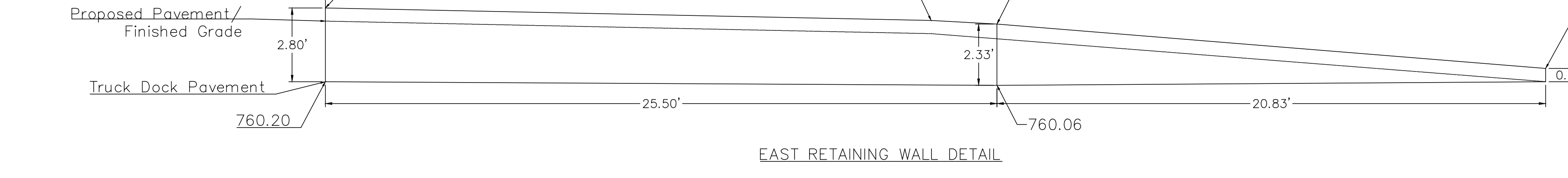
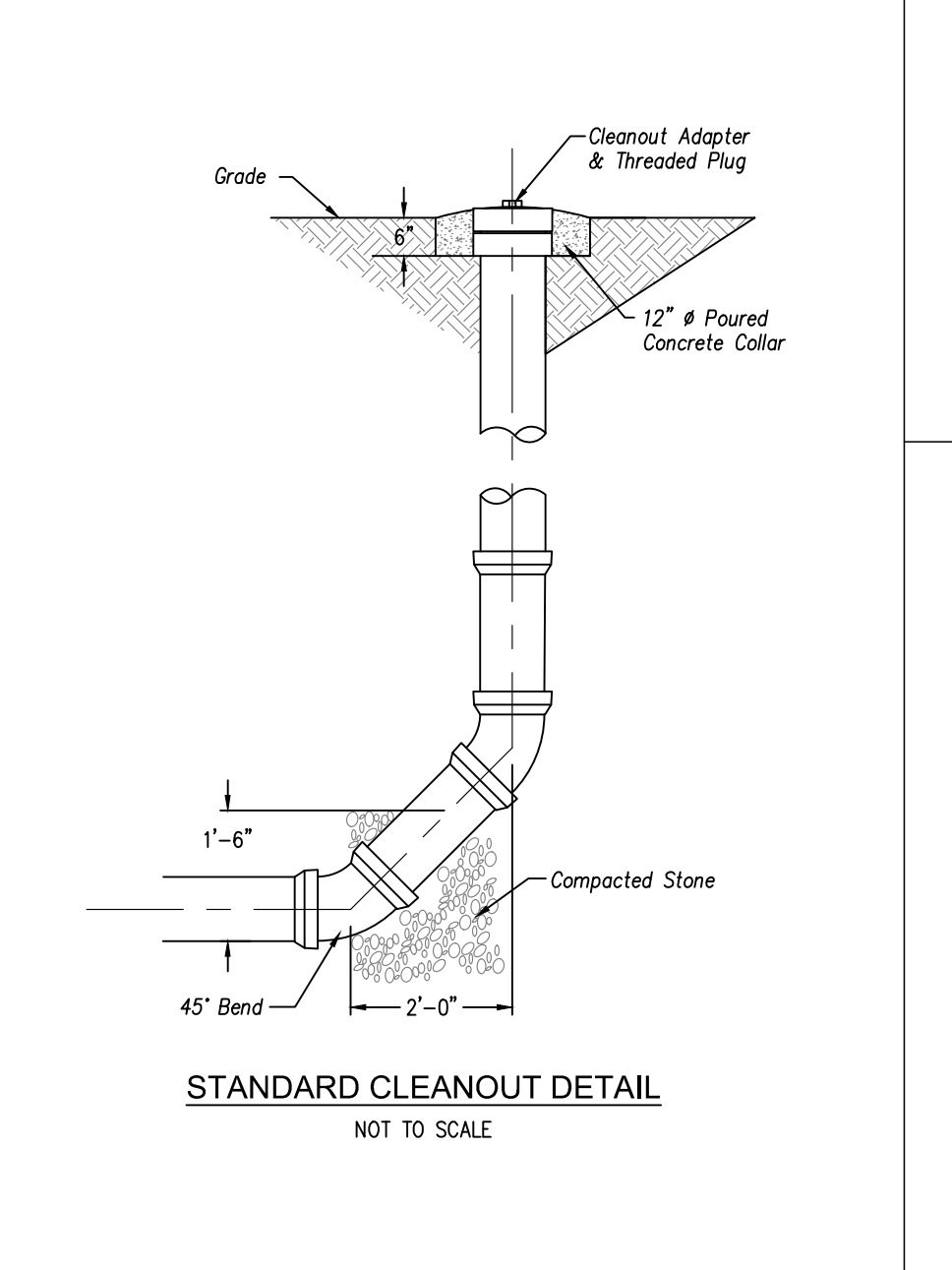
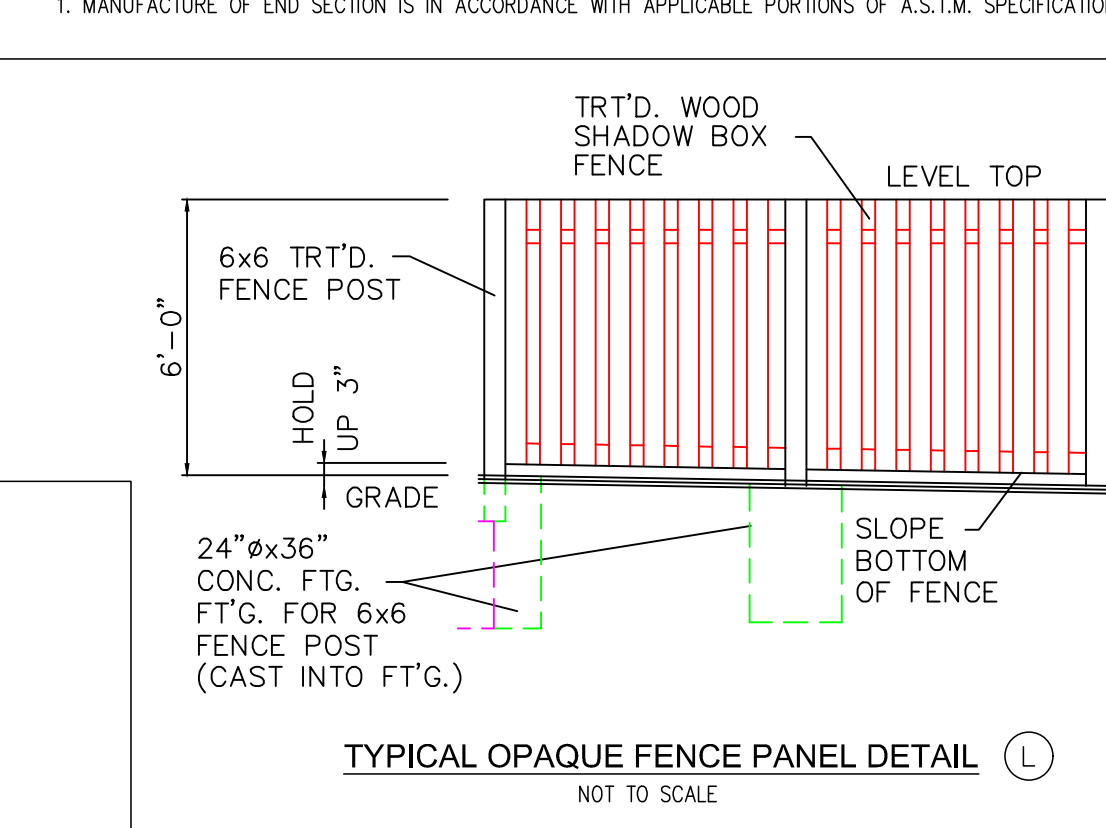
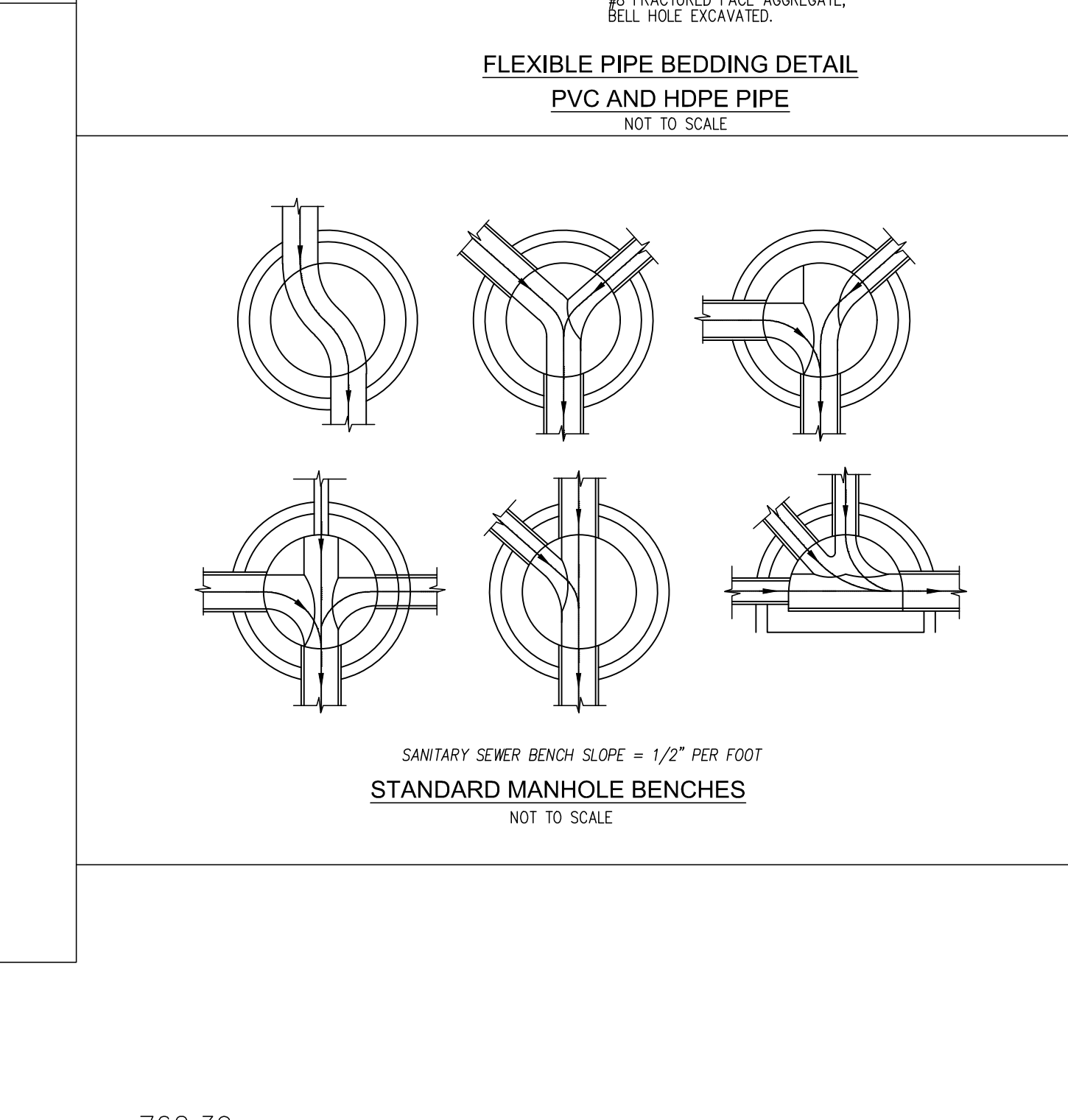
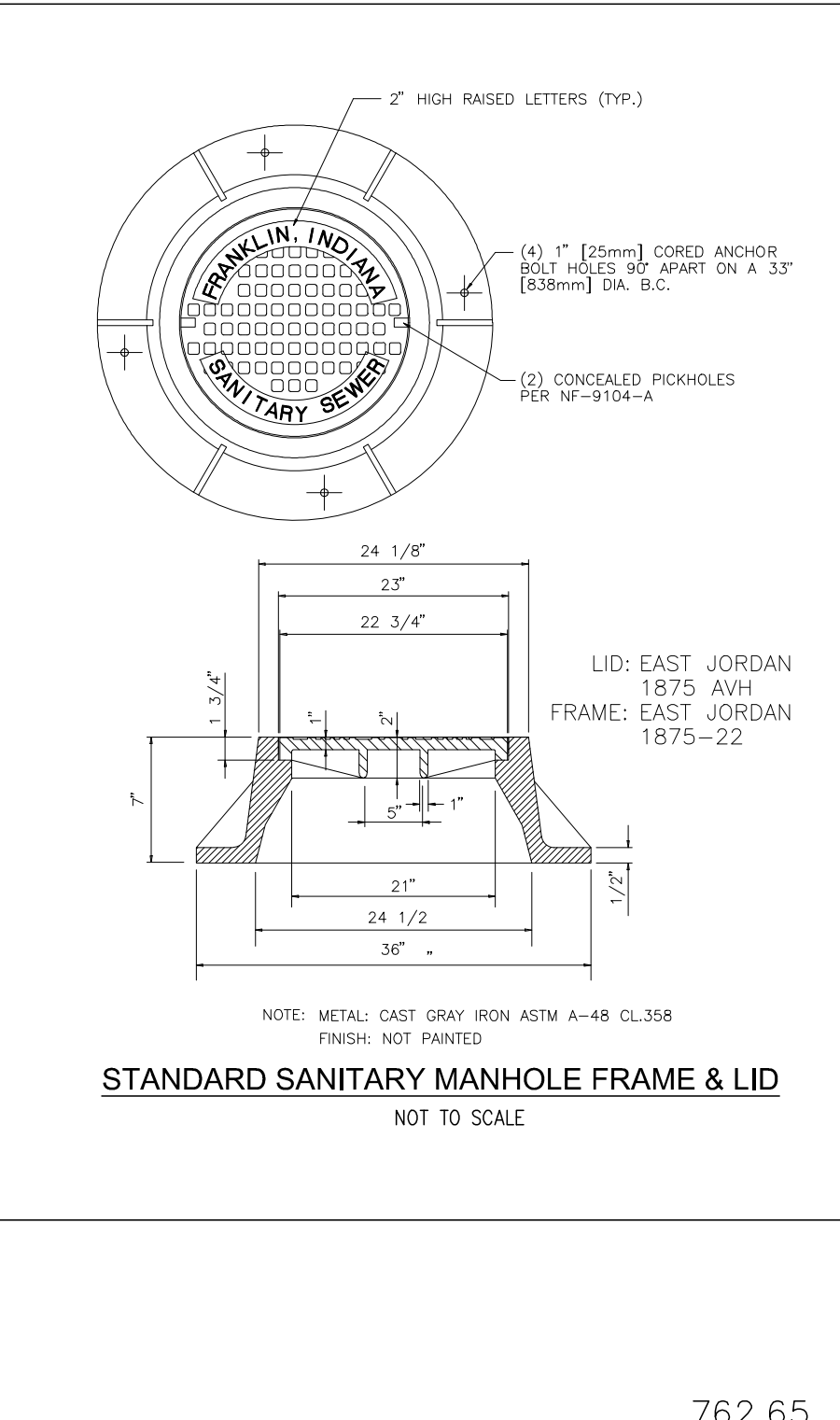
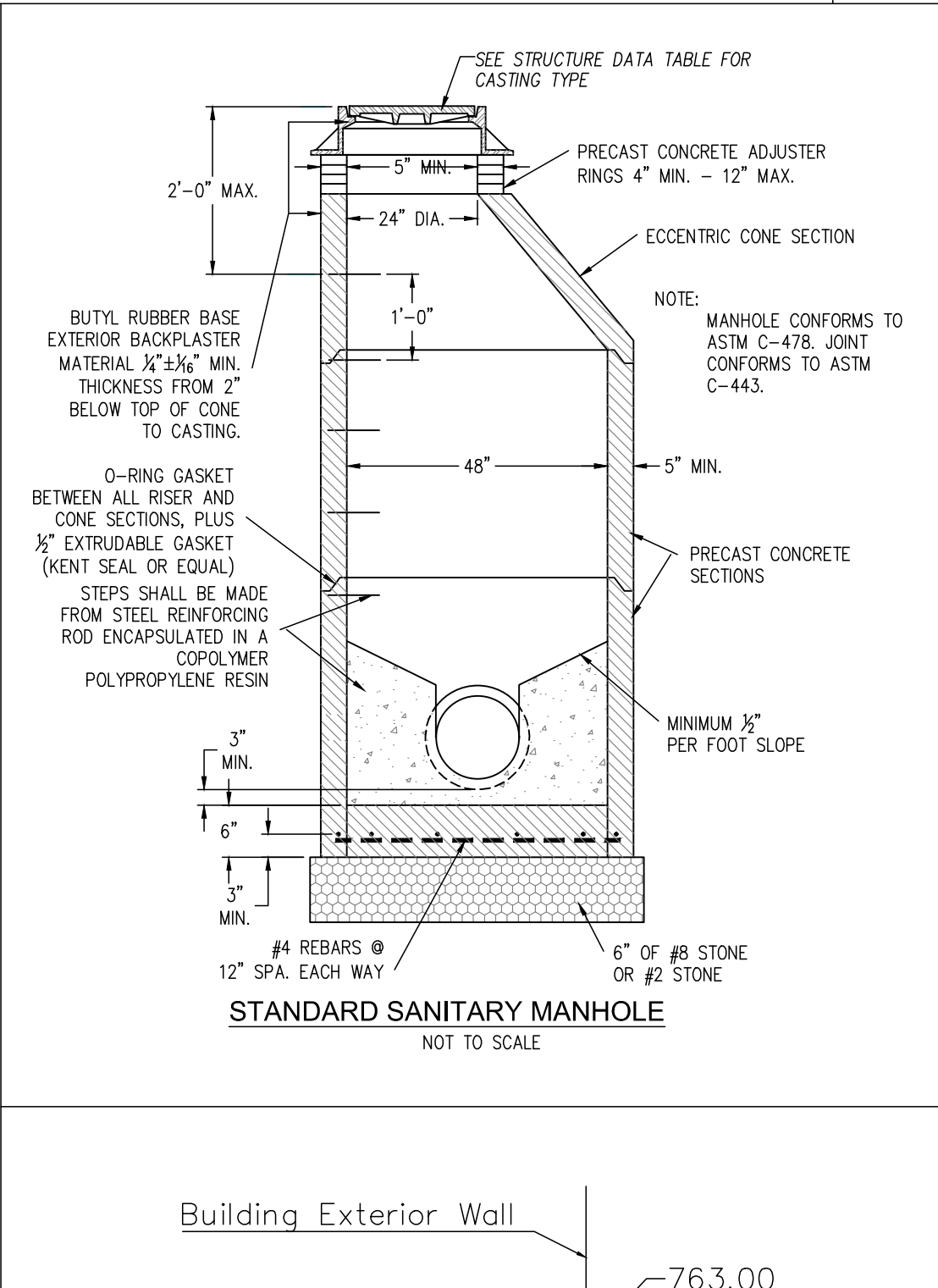
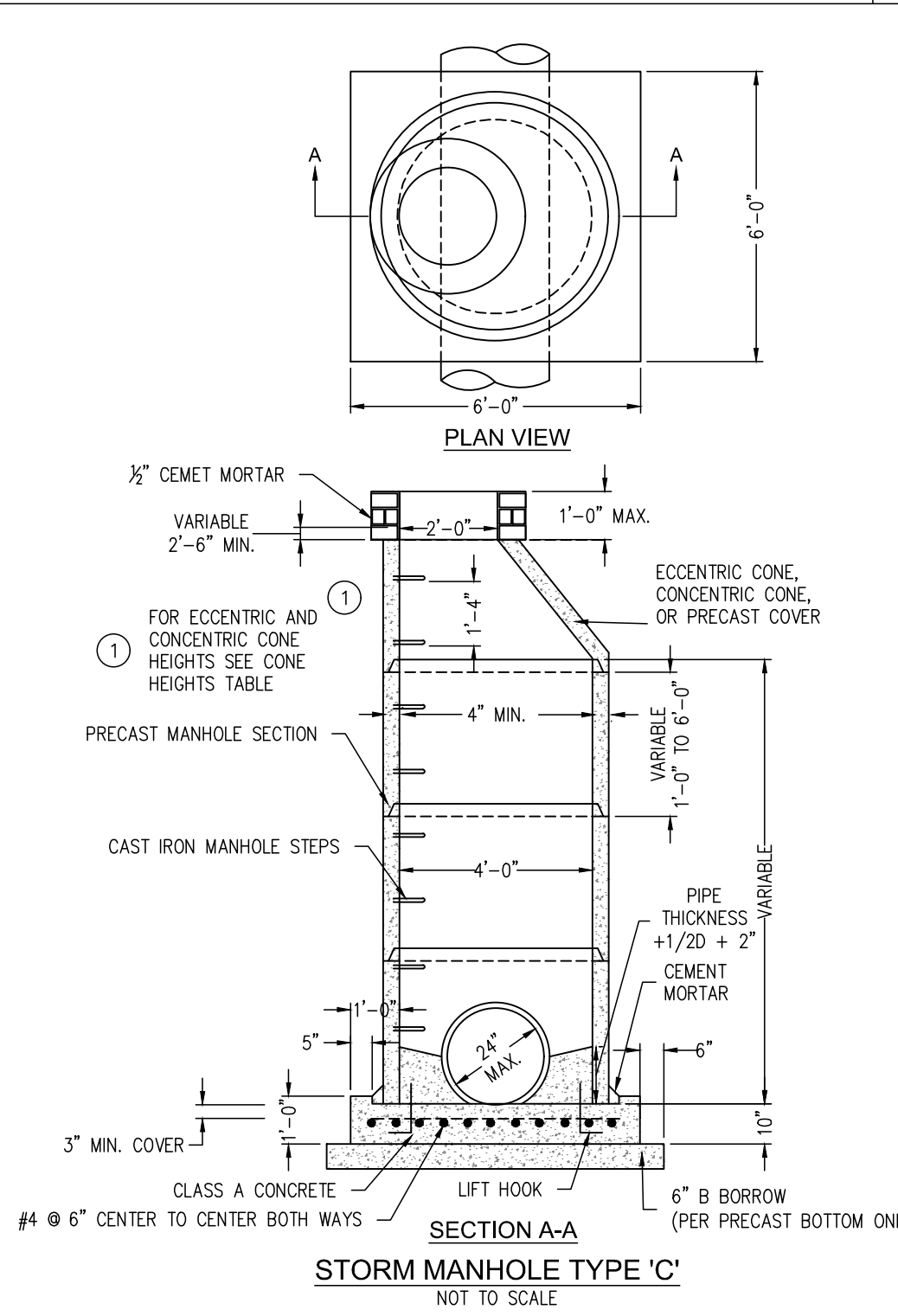




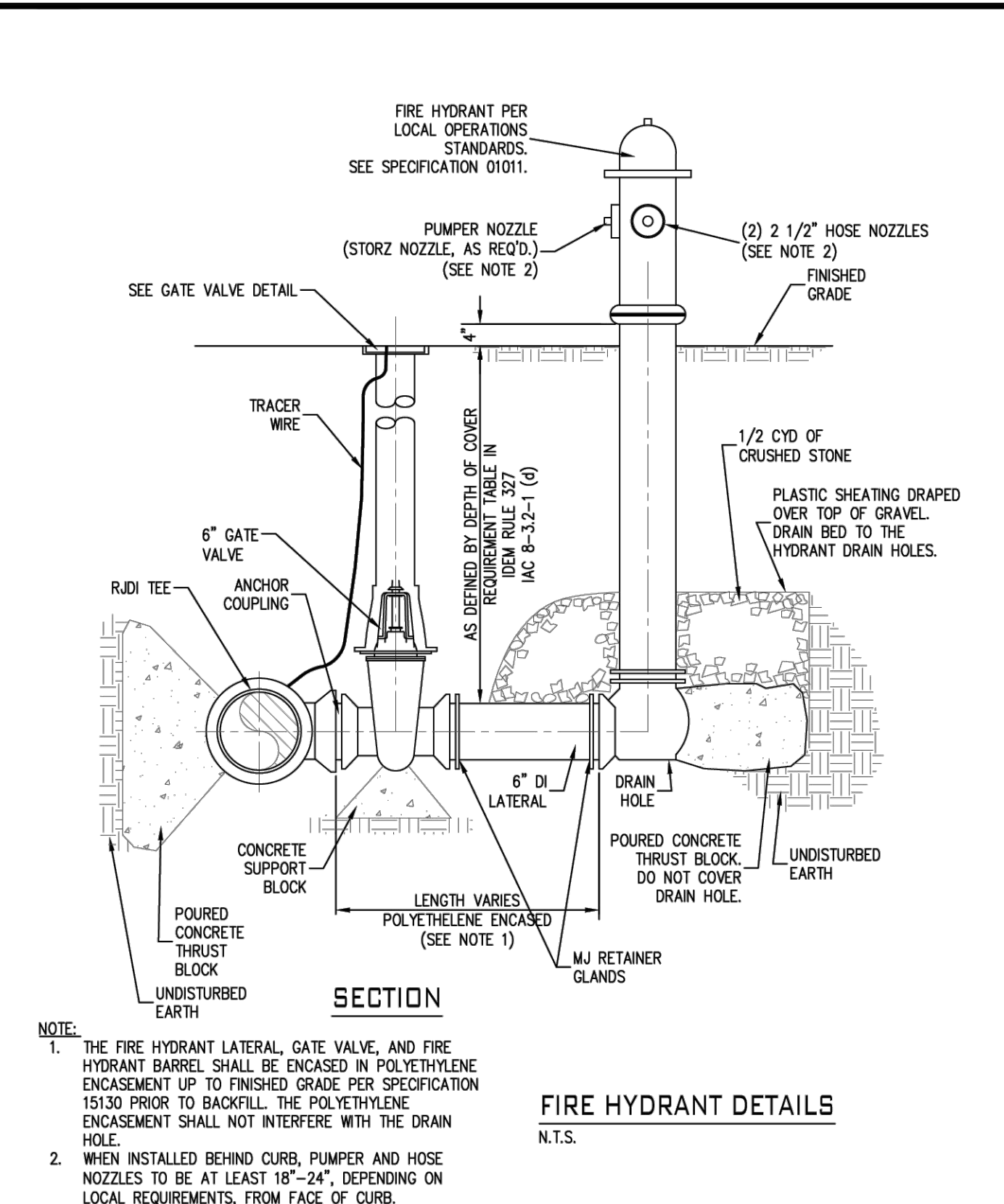
PRECAST CONCRETE END SECTION TABLE

DIA.	WALL	OR 7	WT. SEC.	A	B	C	D	E	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	73	30	16	12 1/2	3 1/2			
18	2 1/2	2 1/2	990	9	27	46	73	36	19	15 1/2	4			
21	2 1/4	2 1/4	1280	9	35	58	73	42	22	16 7/8	4			
24	2 1/2	2 1/2	1550	9 1/2	43 1/2	30	73 1/2	48	25	16 1/16	4 1/2			
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			
30	3	3	2180	12	54	19 3/4	73 3/4	60	31	18 9/16	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			
36	3 1/2	3 1/2	4100	15	63	34 3/4	97 3/4	72	37	24 1/16	5 1/2			
42	3 3/4	3 3/4	5380	21	63	35	98	78	43	27 1/4	5 1/2			
46	4 1/4	4 1/4	6550	24	72	26	98	84	49	28 7/8	5 3/4			
54	4 3/4	4 3/4	8040	27	65	35	100	90	55	32 7/8	6 1/4			
60	5	5	8750	30	60	39	99	96	61	36 3/4	6 3/4			
66	5 1/2	5 1/2	10630	24	78	21	99	102	67	35 11/16	7 1/4			
72	6	6	12520	34	78	21	99	108	73	38 5/8	7 3/4			
78	6 1/2	6 1/2	14430	24	78	21	99	114	79	41 15/16	8 1/2			
84	7	7	16350	24	78	21	99	120	85	44 13/16	9			

NOTES:
1. MANUFACTURE OF END SECTION IS IN ACCORDANCE WITH APPLICABLE PORTIONS OF A.S.T.M. SPECIFICATION C76.



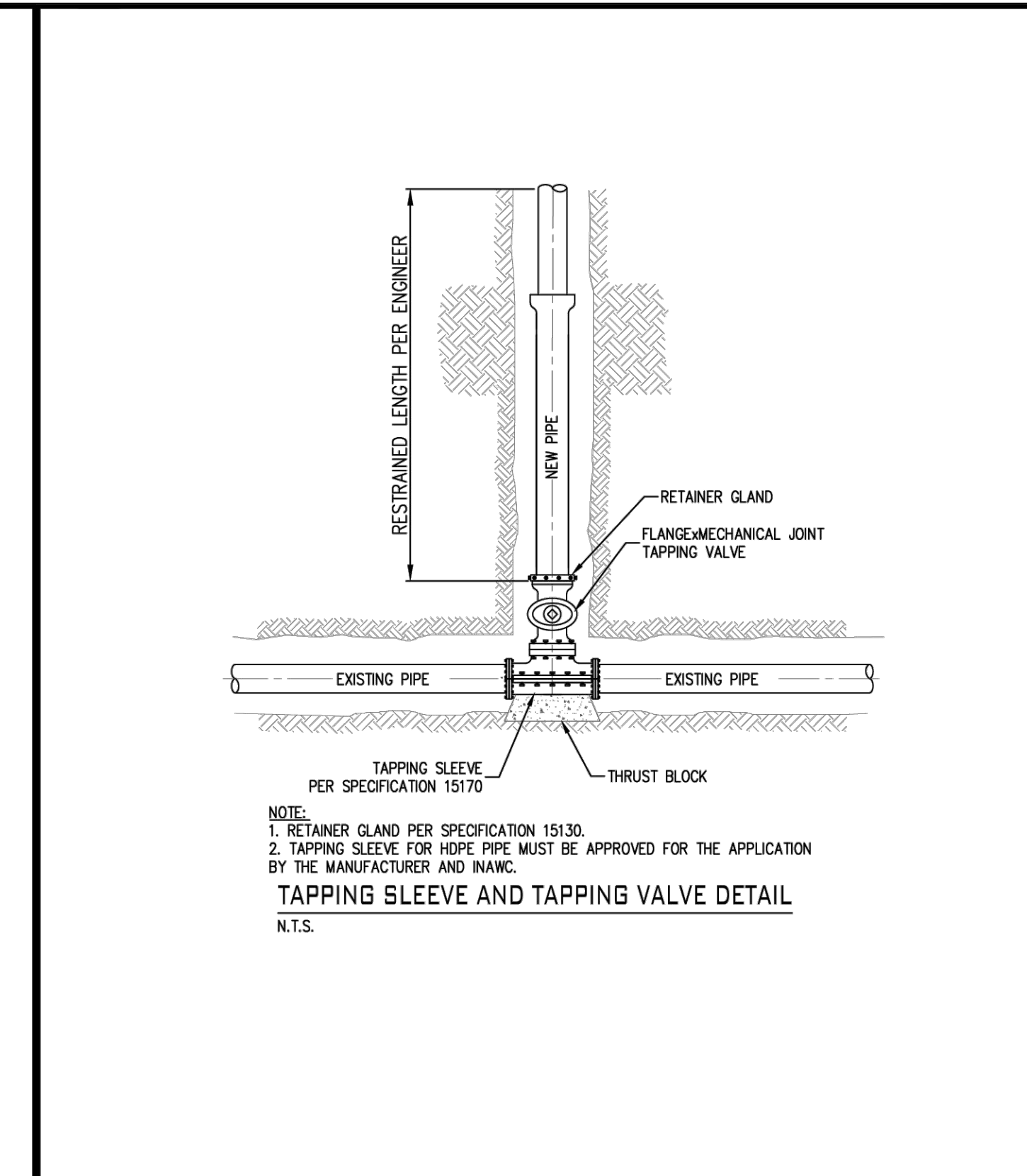
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STANDARD DETAIL
FIRE HYDRANT DETAIL

DATE: JANUARY, 2018
LATEST REV: JULY, 2018

DRAWN BY: S. FORD
APP'D BY: E.N.



STANDARD DETAIL
TAPPING SLEEVE AND TAPPING VALVE

DATE: JANUARY, 2018
LATEST REV: JANUARY, 2018

DRAWN BY: S. FORD
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)	1.15 (29)				1290DSXL
12 (300)	24.01 - 36.00 (610 - 914)					1290SDTXL
15 (375)	3.75 - 24.00 (95 - 609)	1.30 (33)				1590DSXL
15 (375)	24.01 - 36.00 (610 - 914)					1590SDTXL
18 (450)	4.00 - 24.00 (102 - 609)	1.57 (40)	5.00 (127)	2.25 (57)	0.32 (8)	1890DSXL
18 (450)	24.01 - 36.00 (610 - 914)					1890SDTXL
24 (600)	4.25 - 24.00 (121 - 609)	1.86 (40)				2490DSXL
24 (600)	24.01 - 36.00 (610 - 914)					2490SDTXL
30 (750)	5.00 - 24.00 (127 - 609)	2.55 (65)				3090DSXL
30 (750)	24.01 - 36.00 (610 - 914)					3090SDTXL
36 (900)	5.25 - 24.00 (133 - 609)	2.85 (72)				3690DSXL
36 (900)	24.01 - 36.00 (610 - 914)					3690SDTXL

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.

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REV. 1 Updates to dimensions
DESCRIPTION: Duraslot XL Pipe Custom Slot Height
BY: MM/DD/YY
CHK'D: KJS
DATE: 05/19/2023

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.

Drawing Number: STD-1401B
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026
ADS
1 OF 1

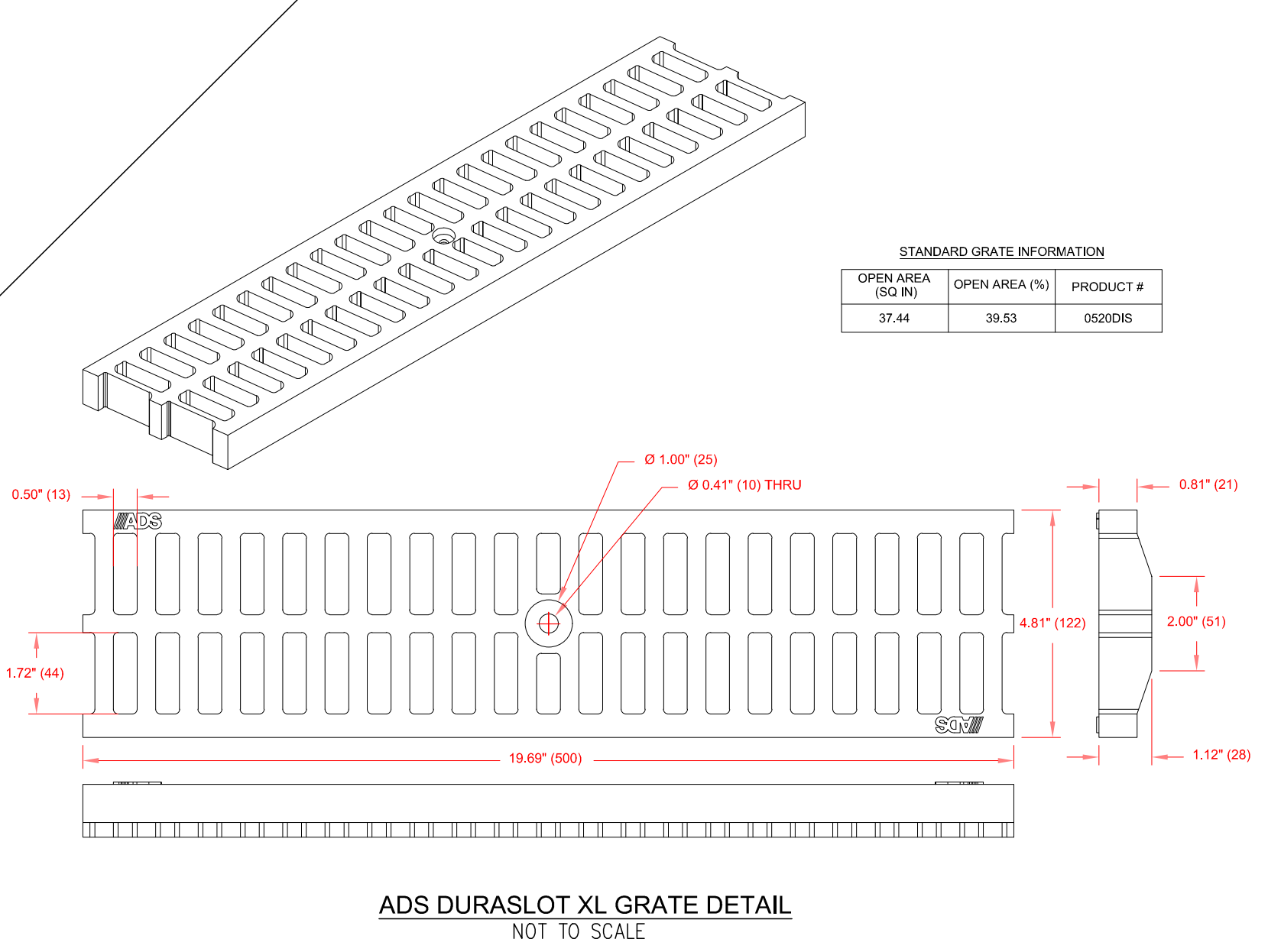
SPIGOT END CAP FOR 6 & 10" PIPE DIAMETER

END CAP FOR DURASLOT XL DIMENSIONS

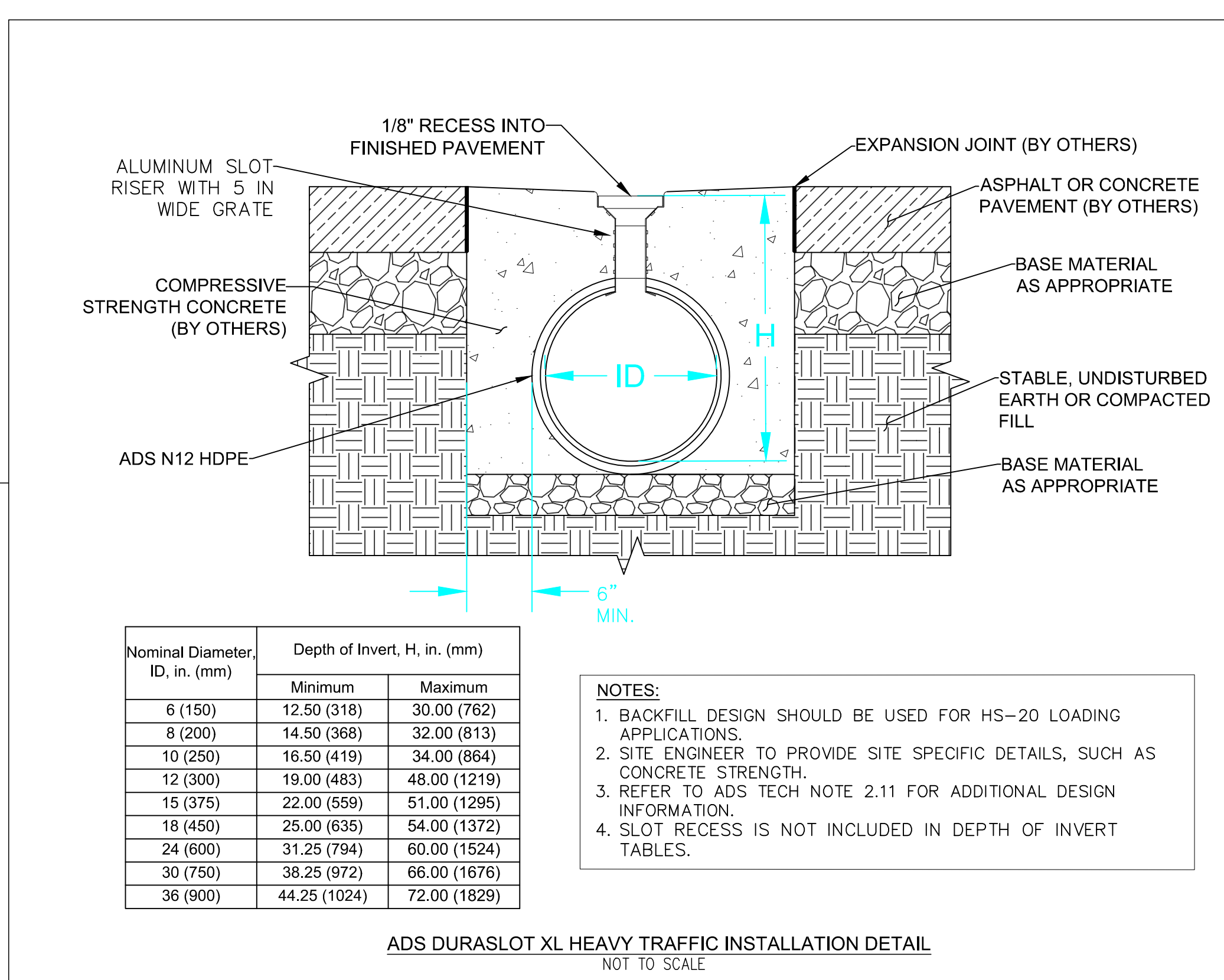
PIPE Ø, in (mm)	A, in (mm)	B, in (mm)	C, in (mm)	D, in (mm)	E, in (mm)	PRODUCT # (Std./Cust. Slot)
6 (150)	4.50 (114)	5.12 (130)	7.63 (194)	3.00 (76)	2.50 (64)	0633DSXL/ 0693DSXL
8 (200)	4.25 (108)	6.95 (177)	N/A	2.50 (64)	2.50 (64)	0833DSXL/ 0893DSXL
10 (250)	5.00 (127)	9.88 (251)	12.13 (308)	3.50 (89)	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

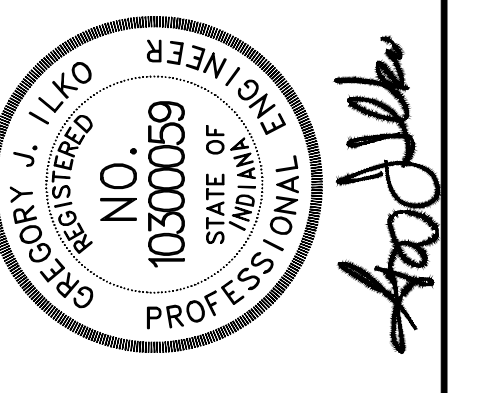


ADS DURASLOT XL GRATE DETAIL
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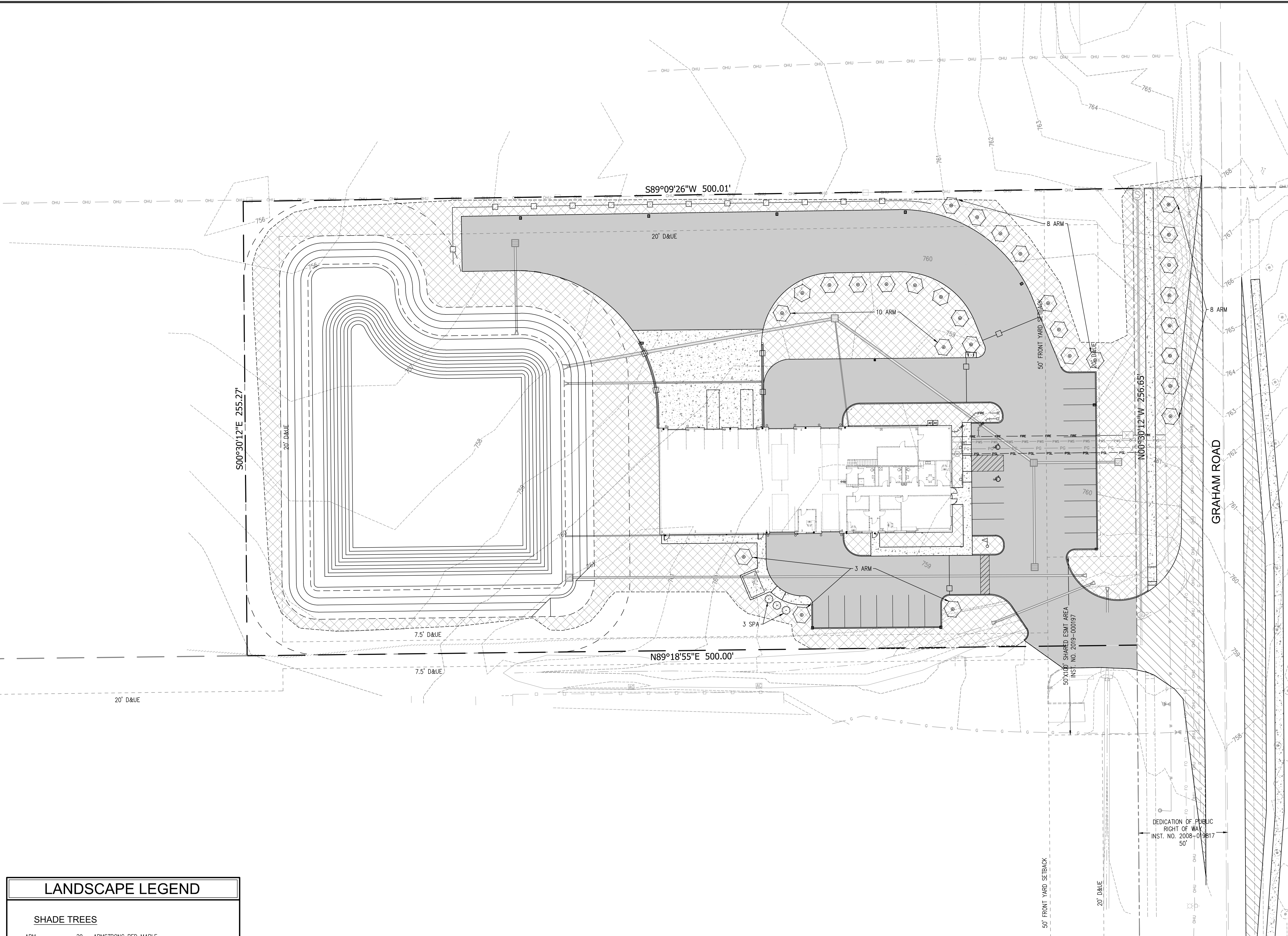


ADS DURASLOT XL HEAVY TRAFFIC INSTALLATION DETAIL
NOT TO SCALE

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 USER : S.Ford

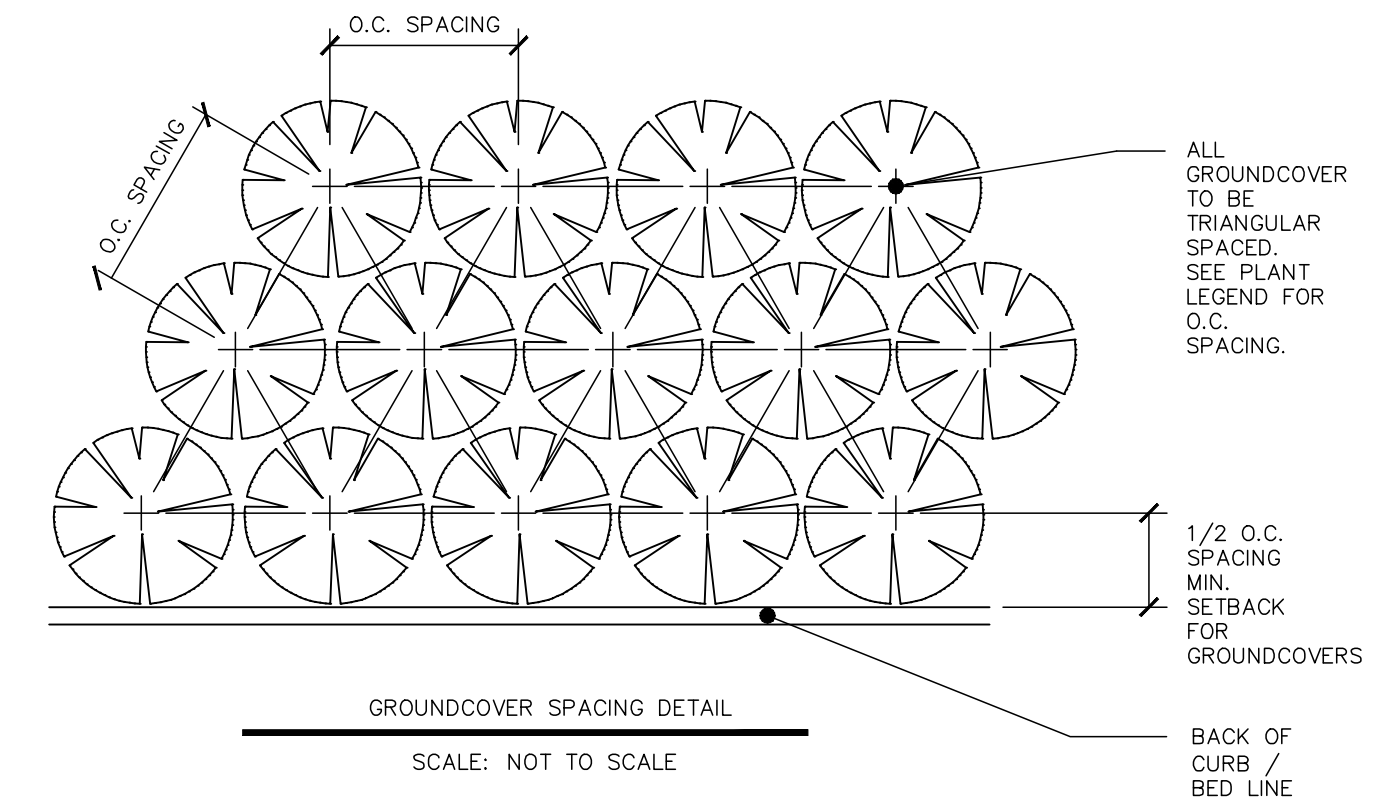
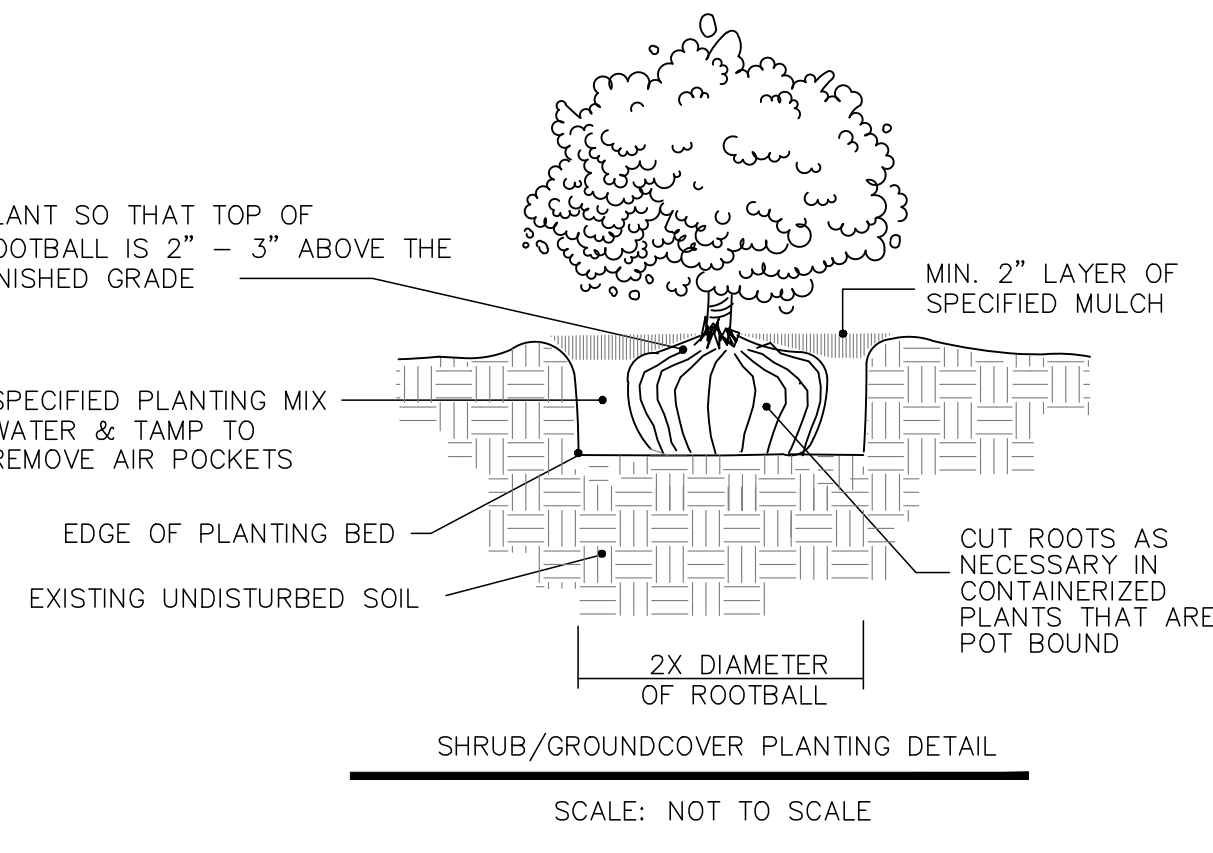
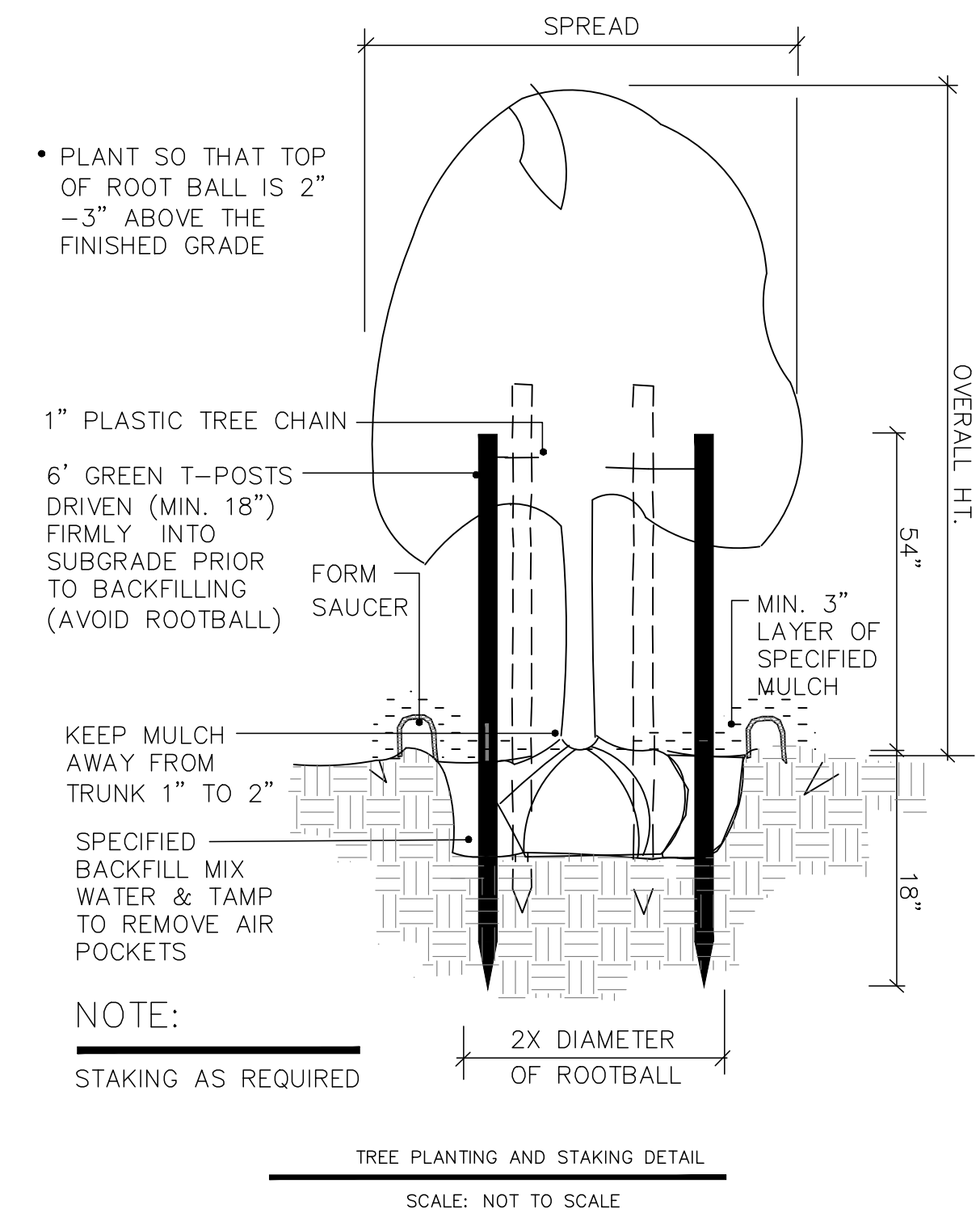
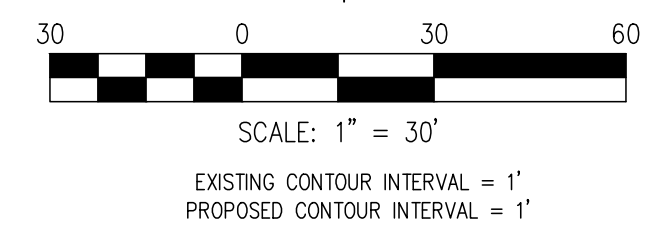


NO.	DATE	REVISIONS
9		
8		
7		
6		
5		
4		
3		
2		
1		



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.



LANDSCAPE LEGEND

SHADE TREES

ARM 29 ARMSTRONG RED MAPLE
ACER RUBRUM 'AUTUMN FLAME'
2.5\" CALIPER 6\" CLEAR TRUNK

SHRUBS

SPA 3 DWARF KOREAN LILAC
SYRINGA PATULA 'MISS KIM'
3 GAL. 72\" O.C.

EROSION CONTROL

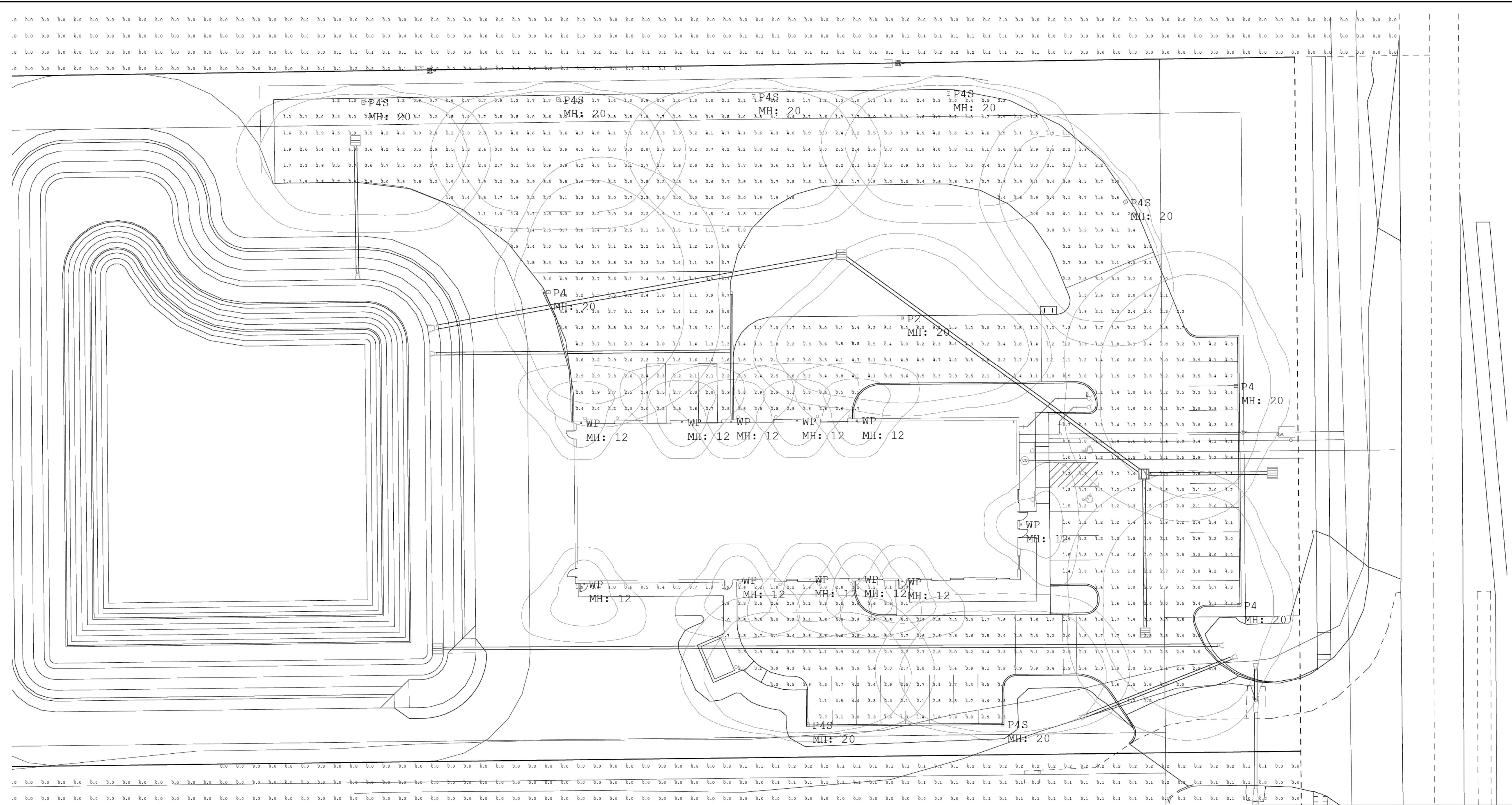
REVIEMENT RIPRAP
(SEE DETAIL - EROSION CONTROL PLAN SHEET 900)

GROUNDCOVER

SEED AND MULCH S.F. ± 38,004
LOW MAINTENANCE MIX AS AVAILABLE FROM INDIANA SEED SOLUTIONS 65% TALL FESCUE, 25% PRG, 10% GR FESCUE

- LANDSCAPE NOTES**
1. 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.)
 2. A THREE INCH DEPTH OF SHREDDED HARDWOOD BARK MULCH WILL BE USED AS A TOP DRESSING FOR ALL PLANTING BEDS AND TREE RINGS.
 3. 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.)
 4. 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.
 5. 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.
 6. TREES SHALL BE PLANTED AT LEAST TWO AND ONE-HALF FEET (2'-6") FROM SIDEWALK OR CURB EDGE.

DIRECTORY PATH : R:\Active\Projects\Biosci\JCCO Recycle Center Design\CAD\Plans
DATE/USER : 4/11/2024 1:20 PM / Bhsinghan



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.
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CBMC LIGHTING SOLUTIONS

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 317-780-8350 | WWW.CBMCINC.COM

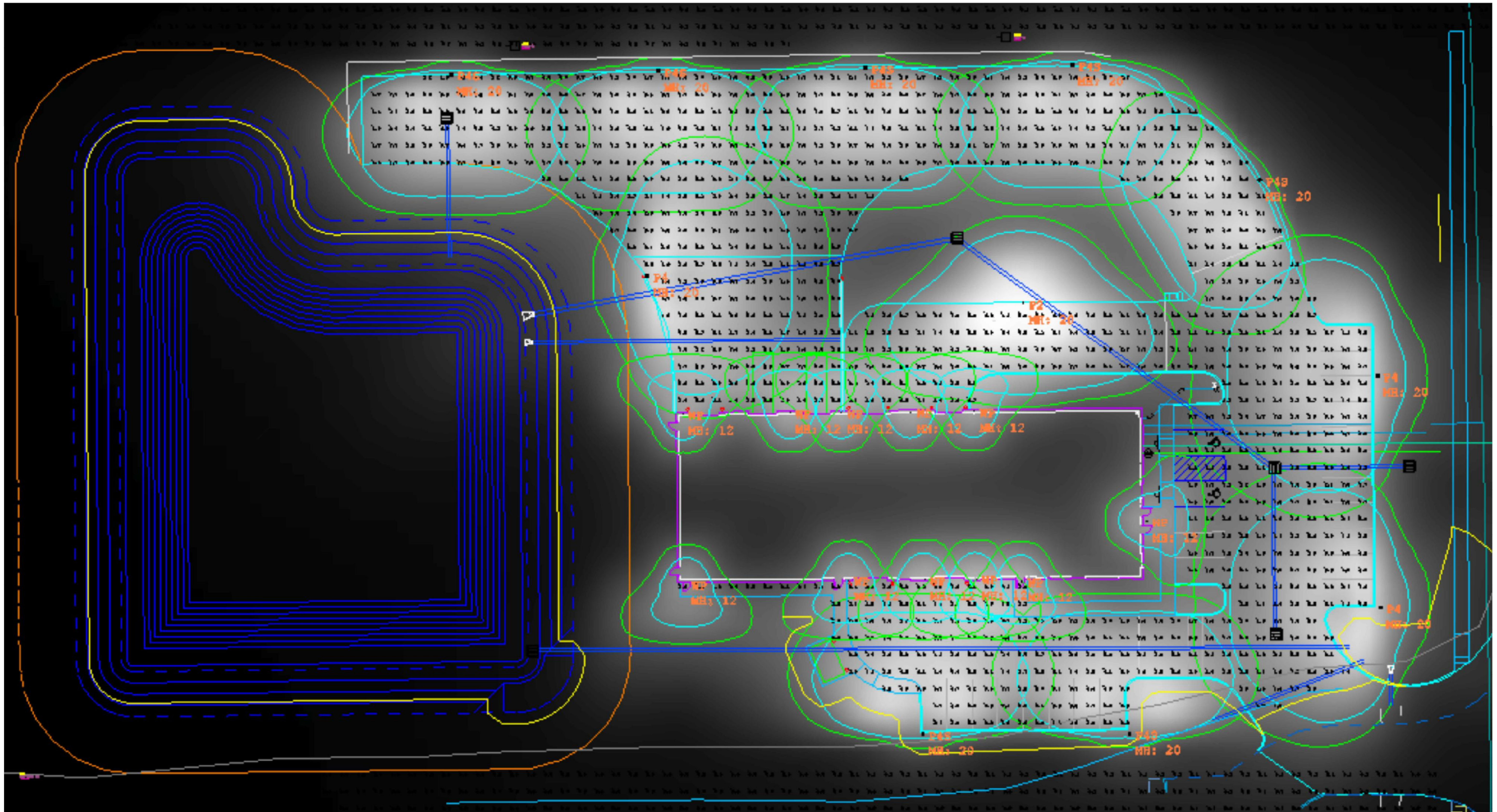


This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with IESNA approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and LED lumen package, 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
Date: 4/05/24	Drawing No: 1
Drawn By: FG	E00
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

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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	1
Drawn By:	FG			
Checked By:	RT			

Mirada Small Area (MRS)
 Outdoor LED Area Light



OVERVIEW	
Lumen Package	6,000 - 30,000
Wattage Range	39 - 209
Efficacy Range (LPW)	112 - 163
Weight lbs(kg)	20 (9.1)
Control Options	IMSBT, ALB, ALS, 7-Pin, PCL

QUICK LINKS

- [Ordering Guide](#)
- [Performance](#)
- [Photometrics](#)
- [Dimensions](#)

FEATURES & SPECIFICATIONS

Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 27 lbs in carton.
- Optical System**
 - State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated seal.
 - Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 4, 5W, FT, and LC/RC.
 - Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
 - Zero uplight.
 - Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377
 - Minimum CRI of 70.
 - Integral lower (IL) and integral half lower (IH) options available for enhanced backlight control.
- Electrical**
 - High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.

- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
- L70 Calculated Life: >60k Hours
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 30L lumen packages rated to +40°C.
- Power factor: > .90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Driver is fully encased in potting material for moisture resistance and complies with FCC standards. Driver and key electronic components can easily be accessed.
- Controls**
 - Optional integral passive infrared Bluetooth™ motion and photocell sensor. Fixtures operate independently and can be commissioned via IOS or Android configuration app.
 - 3G rated for ANSI C136.31 high vibration applications are qualified.
 - IK08 rated luminaire per IEC 66262 mechanical impact code
 - LSI's AirLink™ wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7.
- Installation**
 - Designed to mount to square or round poles.
 - A single fastener secures the hinged door,
- underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional B3 drill pattern.
- Warranty**
 - LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.
- Listings**
 - Listed to UL 1598 and UL 8750.
 - Meets Buy American Act requirements.
 - IDA compliant, with 3000K color temperature selection.
 - Title 24 Compliant; see local ordinance for qualification information.
 - RoHS compliant
 - Suitable for wet locations.
 - IP66 rated Luminaire per IEC 60598-1
 - 3G rated for ANSI C136.31 high vibration applications are qualified.
 - IK08 rated luminaire per IEC 66262 mechanical impact code
 - DesignLights Consortium™ (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Mirada Small Area (MRS)
 Outdoor LED Area Light



OVERVIEW	
Lumen Package	6,000 - 30,000
Wattage Range	39 - 209
Efficacy Range (LPW)	112 - 163
Weight lbs(kg)	20 (9.1)
Control Options	IMSBT, ALB, ALS, 7-Pin, PCL

QUICK LINKS

- [Ordering Guide](#)
- [Performance](#)
- [Photometrics](#)
- [Dimensions](#)

FEATURES & SPECIFICATIONS

- Construction**
 - Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
 - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
 - Shipping weight: 27 lbs in carton.
 - Optical System**
 - State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated seal.
 - Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 4, 5W, FT, and LC/RC.
 - Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
 - Zero uplight.
 - Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377
 - Minimum CRI of 70.
 - Integral lower (IL) and integral half lower (IH) options available for enhanced backlight control.
 - Electrical**
 - High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
- L70 Calculated Life: >60k Hours
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 30L lumen packages rated to +40°C.
- Power factor: > .90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Driver is fully encased in potting material for moisture resistance and complies with FCC standards. Driver and key electronic components can easily be accessed.
- Controls**
 - Optional integral passive infrared Bluetooth™ motion and photocell sensor. Fixtures operate independently and can be commissioned via IOS or Android configuration app.
 - LSI's AirLink™ wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7.
- Installation**
 - Designed to mount to square or round poles.
 - A single fastener secures the hinged door,
- underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional B3 drill pattern.
- Warranty**
 - LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.
- Listings**
 - Listed to UL 1598 and UL 8750.
 - Meets Buy American Act requirements.
 - IDA compliant, with 3000K color temperature selection.
 - Title 24 Compliant; see local ordinance for qualification information.
 - RoHS compliant
 - Suitable for wet locations.
 - IP66 rated Luminaire per IEC 60598-1
 - 3G rated for ANSI C136.31 high vibration applications are qualified.
 - IK08 rated luminaire per IEC 66262 mechanical impact code
 - DesignLights Consortium™ (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Mirada Small Area (MRS)
 Outdoor LED Area Light



OVERVIEW	
Lumen Package	6,000 - 30,000
Wattage Range	39 - 209
Efficacy Range (LPW)	112 - 163
Weight lbs(kg)	20 (9.1)
Control Options	IMSBT, ALB, ALS, 7-Pin, PCL

QUICK LINKS

- [Ordering Guide](#)
- [Performance](#)
- [Photometrics](#)
- [Dimensions](#)

FEATURES & SPECIFICATIONS

- Construction**
 - Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
 - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
 - Shipping weight: 27 lbs in carton.
 - Optical System**
 - State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated seal.
 - Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 4, 5W, FT, and LC/RC.
 - Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
 - Zero uplight.
 - Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377
 - Minimum CRI of 70.
 - Integral lower (IL) and integral half lower (IH) options available for enhanced backlight control.
 - Electrical**
 - High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
- L70 Calculated Life: >60k Hours
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 30L lumen packages rated to +40°C.
- Power factor: > .90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Driver is fully encased in potting material for moisture resistance and complies with FCC standards. Driver and key electronic components can easily be accessed.
- Controls**
 - Optional integral passive infrared Bluetooth™ motion and photocell sensor. Fixtures operate independently and can be commissioned via IOS or Android configuration app.
 - LSI's AirLink™ wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7.
- Installation**
 - Designed to mount to square or round poles.
 - A single fastener secures the hinged door,
- underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional B3 drill pattern.
- Warranty**
 - LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.
- Listings**
 - Listed to UL 1598 and UL 8750.
 - Meets Buy American Act requirements.
 - IDA compliant, with 3000K color temperature selection.
 - Title 24 Compliant; see local ordinance for qualification information.
 - RoHS compliant
 - Suitable for wet locations.
 - IP66 rated Luminaire per IEC 60598-1
 - 3G rated for ANSI C136.31 high vibration applications are qualified.
 - IK08 rated luminaire per IEC 66262 mechanical impact code
 - DesignLights Consortium™ (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Mirada Small Wall Sconce Silicone (XWS SIL)
 Outdoor LED Wall Light



OVERVIEW	
Lumen Package (lm)	2,000 - 8,000
Wattage Range (W)	13 - 61
Efficacy Range (LPW)	126 - 162
Weight lbs (kg)	10 (4.5)

QUICK LINKS

- [Ordering Guide](#)
- [Performance](#)
- [Photometrics](#)
- [Dimensions](#)

FEATURES & SPECIFICATIONS

- Construction**
 - Rugged die-cast aluminum housing.
 - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
 - Extended housing available with 1/2" threaded hubs for surface conduit and rated wire.
 - Standard luminaire shipping weight: TBD lbs in carton.
 - Max luminaire shipping weight: 12 lbs in carton (20 lbs w/EH option)
 - Optical System**
 - State-of-the-Art one piece silicone optic provides industry leading optical control while also acting as an integrated gasket reducing system complexity and improving fixture reliability.
 - Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, and FT.
 - Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
 - Zero uplight.
 - Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377.
 - Minimum CRI of 70
 - Electrical**
 - High-performance driver features over-voltage under-voltage, short-circuit, and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
- L70 Calculated Life: >60k Hours
- Total harmonic distortion (THD): <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F).
- Power factor (PF): >.90
- Input power stays constant over life.
- Optional 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Driver is fully encased in potting material for moisture resistance. Driver complies with FCC standards. Accessible driver and electrical components.
- Optional battery backup provides 90-minutes of constant power to the LED system, ensuring code compliance. A test switch/indicator button is installed on the housing for ease of maintenance. Standard battery rated for 0°C to 50°C with cold weather battery rated for -20°C to 50°C (40°C max for 8L). 120-277V Only.
- Controls**
 - Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via IOS or Android configuration app.
 - Optional button photocell turns fixtures on and off based on ambient light levels for dusk to dawn lighting.
- LSI's AirLink Blue wireless control system options allow for fixture and motion sensor grouping while reducing energy and maintenance costs.
- Installation**
 - Universal wall mounting plate mounts directly to vertical surface or 4" junction box (octagonal or square).
 - Luminaire hinges to the top of the mounting plate and is secured via two flush mount screws that help to conceal the hardware and prevent over tightening during installation.
- Warranty**
 - LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.
- Listings**
 - Listed to UL 1598 and UL 8750.
 - Meets Buy American Act requirements.
 - IDA compliant, with 3000K color temperature selection.
 - Title 24 Compliant; see local ordinance for qualification information.
 - Suitable for wet locations.
 - IP65 rated luminaire per IEC 60598-1.
 - IK08 rated luminaire per IEC 66262 mechanical impact code.
 - DesignLights Consortium™ (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

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**

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

SITE LIGHTING DETAILS

Scale:	1/16" = 1'-0"	Project No:	E00	Revision	
Date:		Drawing No:	E02		1
Drawn By:	4/05/24	FC			
Checked By:		RT			