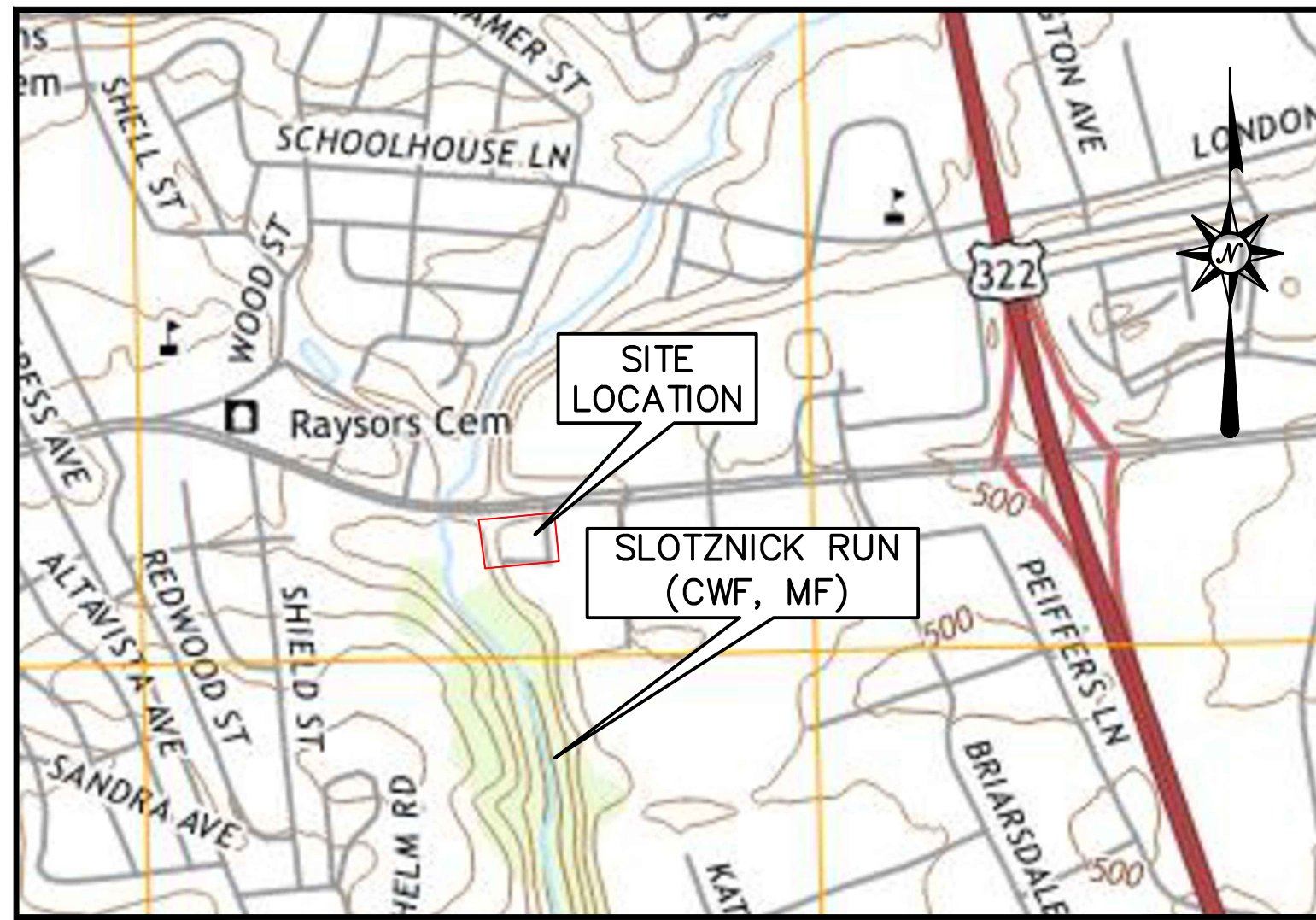
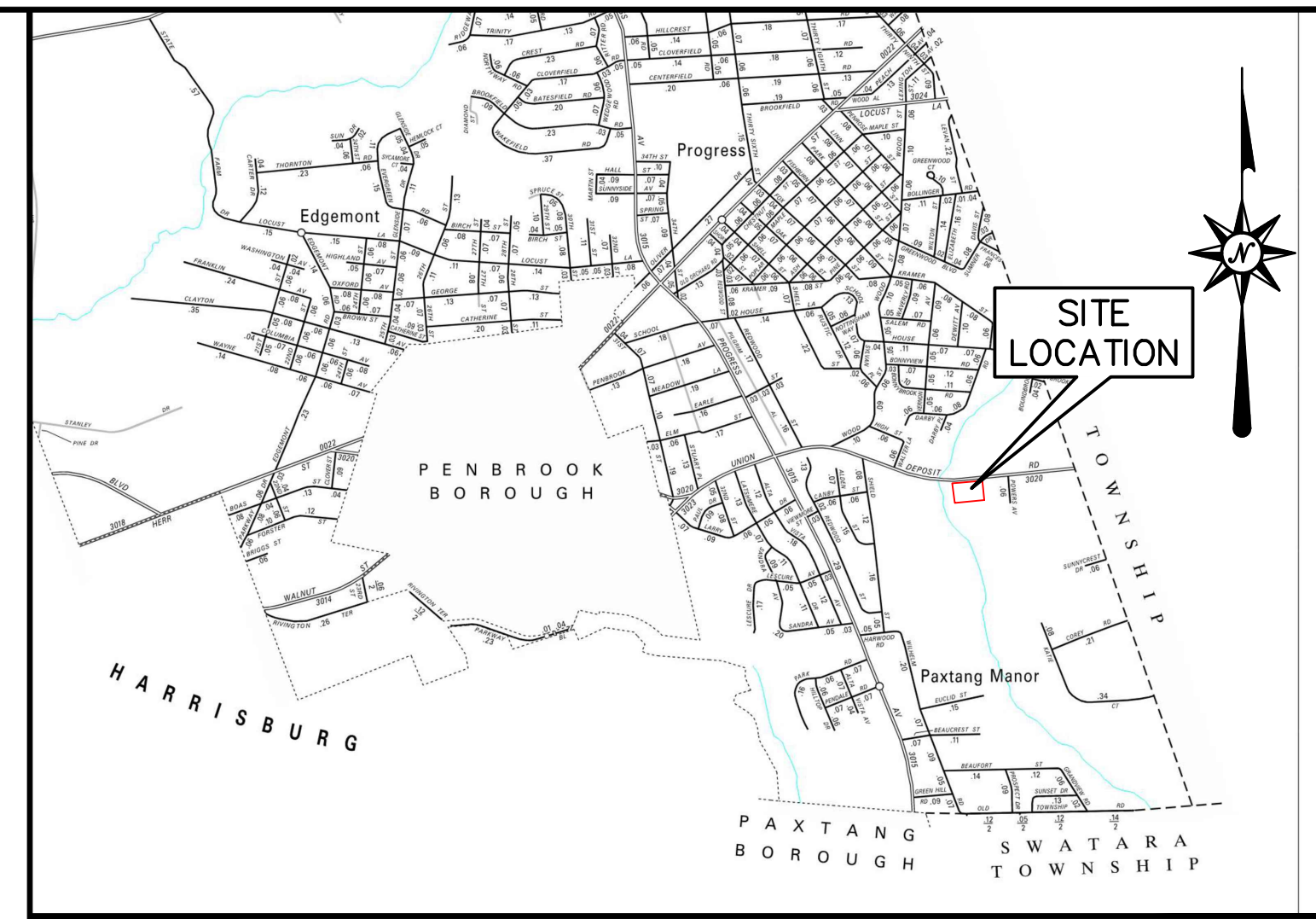
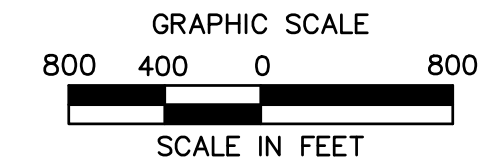


PRELIMINARY/FINAL LAND DEVELOPMENT PLAN FOR TOMMY CAR WASH SYSTEM P2825 3523 UNION DEPOSIT ROAD SUSQUEHANNA TOWNSHIP DAUPHIN COUNTY, PENNSYLVANIA



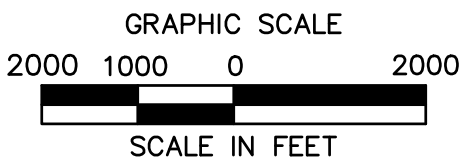
VICINITY MAP

SCALE: 1"=800'



LOCATION MAP

SCALE: 1"=2000'



ACT 287 LIST OF UTILITIES

THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ACT 287 OF 1974 AS AMENDED BY ACT 187 OF 1996 FOR NOTIFICATION OF UTILITIES BEFORE EXCAVATION IN CONTRACT AREA. THE ONE UNDERGROUND UTILITIES LOCATION CALL NUMBER IS 1-800-242-1776. DESIGN SERIAL NUMBER IS 20211932347, SUBMITTED ON 07/12/2021.

UTILITIES AND RESPONSES PROVIDED BY PA ONE CALL:

(CDC) CAPITAL REGION WATER 3003 NORTH FRONT STREET HARRISBURG, PA 17110 CONTACT: THOMAS YORK EMAIL: thomas.york@capitalregionwater.com	(SB) COMCAST 4601 SMITH STREET HARRISBURG, PA 17109 CONTACT: MICHAEL SWEIGARD EMAIL: mike_sweigard@cable.comcast.com
(DH) SUEZ WATER PENNSYLVANIA INC. 8189 ADAMS DRIVE HUMMELSTOWN, PA 17036 CONTACT: LOUISE DOLAN EMAIL: louise.dolan@suez.com	(SXH) SUSQUEHANNA TOWNSHIP AUTHORITY/ SUSQUEHANNA TOWNSHIP 1900 LINGLETOWN ROAD HARRISBURG, PA 17110 CONTACT: NATHAN SPRIGGS EMAIL: nspriggs@susquehannatwp.com
(HC) VERIZON PENNSYLVANIA LLC 1026 HAY STREET PITTSBURGH, PA 15221 CONTACT: DEBORAH BARUM EMAIL: deborah.d.dello@verizon.com	(UI) UGI UTIL LANCASTER 1301 AIP DRIVE MIDDLETOWN, PA 17057 CONTACT: STEPHEN BATEMAN EMAIL: sbateman@ugi.com
(MI) VERIZON BUSINESS FORMERLY MCI 400 INTERNATIONAL PARKWAY RICHARDSON, TX 75081 CONTACT: DEAN BOYERS EMAIL: investigations@verizon.com	(XD1) SUSQUEHANNA TOWNSHIP AUTHORITY/ SUSQUEHANNA TOWNSHIP 1900 LINGLETOWN ROAD HARRISBURG, PA 17110 CONTACT: NATHAN SPRIGGS EMAIL: nspriggs@susquehannatwp.com
(PRD) PPL ELECTRIC UTILITIES CORPORATION 434 SUSQUEHANNA TRAIL NORTHUMBERLAND, PA 17857 CONTACT: DOUG HAUPT EMAIL: dhaupt@pplweb.com	

Pennsylvania One Call System Response List

CDCC	MESSAGE NUMBER	LAST RESPONSE RECEIVED	PA ONE CALL
01	CDC	07/13/2021 13:26:46	ENGINEERING COMPLETED - A PDF FILE OR HARDED UP PLANS WERE SENT TO THE REQUESTOR
02	SUEZ WATER PENNSYLVANIA INC	07/13/2021 07:30:50	CLEAR. NO FACILITIES OR FACILITIES NOT INVOLVED BASED ON TICKET INFORMATION
03	VERIZON PENNSYLVANIA LLC	07/13/2021 14:17:11	CLEAR. NO FACILITIES OR FACILITIES NOT INVOLVED BASED ON TICKET INFORMATION
04	VERIZON BUSINESS FORMERLY MCI	07/27/2021 09:01:09	DID NOT RESPOND THROUGH PA ONE CALL
05	PPL ELECTRIC UTILITIES CORPORATION	07/27/2021 07:32:29	CLEAR. NO FACILITIES OR FACILITIES NOT INVOLVED BASED ON TICKET INFORMATION
06	COMCAST CABLE COMMUNICATIONS INC	07/27/2021 07:32:29	CLEAR. NO FACILITIES OR FACILITIES NOT INVOLVED BASED ON TICKET INFORMATION
07	SUSQUEHANNA TWP ACTA/SUSQUEHANNA TWP	07/13/2021 15:17:28	ENGINEERING COMPLETED - A PDF FILE OR HARDED UP PLANS WERE SENT TO THE REQUESTOR
08	UGI UTIL LANCASTER	07/13/2021 15:17:28	DESIGN COMPLETE. PARAS SEND PLANS TO: GUYTON BUSHNER, UGI UTIL LANCASTER, 1301 AIP DRIVE, MIDDLETOWN PA 17057
09	SUSQUEHANNA TWP ACTA/SUSQUEHANNA TWP	07/13/2021 13:08:22	ENGINEERING COMPLETED - A PDF FILE OR HARDED UP PLANS WERE SENT TO THE REQUESTOR

Sheet List Table

01	CV-1	COVER SHEET
02	GN-1	GENERAL NOTES
03	EX-1	EXISTING CONDITIONS PLAN
04	DM-1	DEMOLITION PLAN
05	SP-1	SITE PLAN
06	GD-1	GRADING PLAN
07	SU-1	SITE UTILITY PLAN
08	PR-1	PROFILES
09	DN-1	DETAIL SHEET
10	DN-2	DETAIL SHEET
11	DN-3	DETAIL SHEET
12	DN-4	DETAIL SHEET
13	DN-5	DETAIL SHEET
14	DN-6	DETAIL SHEET

ADD ON SHEETS

- SIGNAGE PLAN (1 SHEET)
- LANDSCAPE PLAN (1 SHEET)
- LIGHTING PLAN (3 SHEETS)
- TRASH ENCLOSURE DETAILS (1 SHEET)

VARIANCES GRANTED

THE FOLLOWING VARIANCES OF THE ZONING ORDINANCE WERE GRANTED BY THE SUSQUEHANNA TOWNSHIP ZONING HEARING BOARD:

VARIANCE	APPROVAL DATE
§27-2040.5 - DRIVE-THROUGH FACILITIES IN FRONT YARD	2021/10/06

WAIVERS GRANTED

THE FOLLOWING WAIVERS OF THE SUBDIVISION AND LAND DEVELOPMENT ORDINANCE WERE GRANTED BY THE SUSQUEHANNA TOWNSHIP PLANNING COMMISSION:

WAIVER	APPROVAL DATE
§22-404 - PRELIMINARY PLAN SUBMISSION	
§22-1107 - SIDEWALK REQUIREMENTS	

SUSQUEHANNA TOWNSHIP BOARD OF COMMISSIONERS

THIS PLAN APPROVED BY THE SUSQUEHANNA TOWNSHIP BOARD OF COMMISSIONERS, AND ALL CONDITIONS IMPOSED WITH RESPECT TO SUCH APPROVAL WERE COMPLETED

ON THIS _____ DAY OF _____, 20____,

CHAIRMAN _____ SECRETARY _____

SUSQUEHANNA TOWNSHIP PLANNING COMMISSION

THIS PLAN RECOMMENDED FOR APPROVAL BY THE SUSQUEHANNA TOWNSHIP PLANNING COMMISSION

THIS _____ DAY OF _____, 20____,

CHAIRMAN _____ SECRETARY _____

SUSQUEHANNA TOWNSHIP ENGINEER

THIS PLAN REVIEWED BY THE SUSQUEHANNA TOWNSHIP ENGINEER

THIS _____ DAY OF _____, 20____,

TOWNSHIP ENGINEER _____

CERTIFICATION OF ACCURACY (SURVEY)

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE SURVEY AND PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE SUSQUEHANNA TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

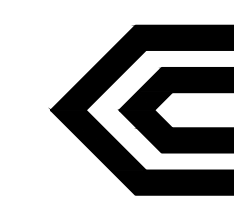
_____, 20____
GREGORY CONDON, P.L.S.
REG. NO. P.L.S. SU32480E

PREPARED BY:



2601 Market Place, Suite 350
Harrisburg, PA 17110
(717) 651-9850
(717) 651-9858 Fax

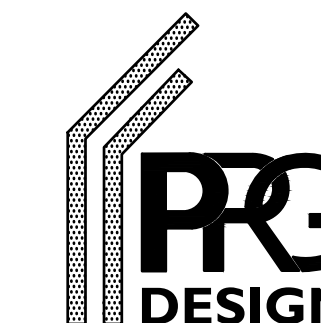
PREPARED FOR:



CHRISTIANSON
COMPANIES

4609 33RD AVENUE SOUTH, SUITE 400
FARGO, NORTH DAKOTA 58104
(701) 281-9500
(701) 281-9501 Fax

DESIGN COORDINATOR:



4609 33RD AVENUE SOUTH, SUITE 400
FARGO, NORTH DAKOTA 58104
(701) 499-0212
(701) 281-9501 Fax

RECORDER OF DEEDS

THIS PLAN RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS IN AND FOR DAUPHIN COUNTY

THIS _____ DAY OF _____, 20____

PLAN BOOK _____ VOLUME _____ PAGE _____ INSTRUMENT _____

DAUPHIN COUNTY PLANNING COMMISSION

THIS PLAN REVIEWED BY THE DAUPHIN COUNTY PLANNING COMMISSION

THIS _____ DAY OF _____, 20____,

CHAIRMAN _____ SECRETARY _____

CERTIFICATION OF ACCURACY (ENGINEER)

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE SURVEY AND PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE SUSQUEHANNA TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

_____, 20____
ALARIC J. BUSHNER, P.E.
REG. NO. PE60320

CERTIFICATE OF OWNERSHIP (EQUITABLE OWNER)

STATE OF PENNSYLVANIA

COUNTY OF _____

ON THIS, THE _____ DAY OF _____, 20____, BEFORE ME, THE UNDERSIGNED PERSONALLY APPEARS,

EQUITABLE OWNER(S) _____

EQUITABLE OWNER(S) _____

WHO BEING DULY SWORN ACCORDING TO LAW, DEPOSE AND SAY THAT THEY ARE THE EQUITABLE OWNERS OF THE PROPERTY SHOWN ON THIS PLAN AND THAT THEY ACKNOWLEDGE THE SAME TO BE THEIR ACT AND DEED AND DESIRE THE SAME TO BE RECORDED AS SUCH ACCORDING TO LAW.

WITNESS MY HAND AND NOTORIAL SEAL THE DAY AND DATE ABOVE WRITTEN

NOTARY PUBLIC _____

MY COMMISSION EXPIRES _____, 20____.

PLAN PURPOSE

THE PURPOSE OF THIS PLAN IS THE CONSTRUCTION OF A NEW 4,551 S.F. CAR WASH BUILDING AND ALL ASSOCIATED SITE IMPROVEMENTS ON THE SUBJECT PROPERTY, 3523 UNION DEPOSIT ROAD.

DATES

ISSUE DATE: AUGUST 6, 2021
LAST REVISED: OCTOBER 8, 2021
DECEMBER 3, 2021

DEVELOPER/APPLICANT

CHRISTIANSON COMPANIES
4609 33RD AVENUE SOUTH, SUITE 400
FARGO, NORTH DAKOTA 58104
C/O MR. TANNER BRANDT
(701) 281-9500

CV-1 No. 01 of 14

SITE WORK GENERAL NOTES

- 1. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION.
- 2. ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECT SPECIFICATION MANUAL, TOMMY'S EXPRESS CAR WASH STANDARDS, MUNICIPAL STANDARDS AND SPECIFICATIONS, PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS, 2010 ADA STANDARDS, AND STATE BUILDING CODE IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
- 3. REFER TO OTHER PLANS BY OTHER DISCIPLINES, DETAILS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL SITE AND BUILDING CONDITIONS IN THE FIELD AND CONTACT THE CIVIL ENGINEER AND ARCHITECT IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS, SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING. ANY CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CONFIRMED WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO BIDDING.
- 4. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
- 5. THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID FOR BY THE CONTRACTOR.
- 6. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORD DRAWINGS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES AND STORMWATER SYSTEM) TO THE OWNER AT THE END OF CONSTRUCTION.
- 7. THE ARCHITECT OR ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ARCHITECT AND ENGINEER HAVE NO CONTRACTUAL DUTY TO CONTROL, THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
- 8. THE CONTRACTOR SHALL COMPLY WITH CFR 29 PART 1926 FOR EXCAVATION, TRENCHING, AND TRENCH PROTECTION REQUIREMENTS.
- 9. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL OR COUNTY OR STATE RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT PA ONE CALL 72 HOURS BEFORE COMMENCEMENT OF WORK AT (800) 242-1776 OR AT 811 AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS. THE CONTRACTOR SHALL EMPLOY THE USE OF A UTILITY LOCATING COMPANY TO PROVIDE SUBSURFACE UTILITY ENGINEERING CONSISTING OF DESIGNATING UTILITIES AND STORM PIPING ON PRIVATE PROPERTY WITHIN THE CONTRACT LIMIT AND CONSISTING OF DESIGNATING AND LOCATING WHERE PROPOSED UTILITIES AND STORM PIPING CROSS EXISTING UTILITIES AND STORM PIPING WITHIN THE CONTRACT LIMITS.
- 10. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN OVER SCALED DIMENSIONS.
- 11. IF PLANS AND OR SPECIFICATIONS ARE IN CONFLICT, THE MOST COSTLY SHALL APPLY.
- 12. ALL CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN COMPLETE DRAWING PLAN SETS FOR BIDDING AND CONSTRUCTION. PLAN SETS OR PLAN SET ELECTRONIC POSTINGS SHALL NOT BE DISASSEMBLED INTO PARTIAL PLAN SETS FOR USE BY CONTRACTORS AND SUBCONTRACTORS OF INDIVIDUAL TRADES. IT SHALL BE THE CONTRACTOR'S AND SUBCONTRACTOR'S RESPONSIBILITY TO OBTAIN COMPLETE PLAN SETS OR COMPLETE PLAN SET ELECTRONIC POSTINGS FOR USE IN BIDDING AND CONSTRUCTION.
- 13. ALL NOTES AND DIMENSIONS DESIGNATED 'TYPICAL' APPLY TO ALL LIKE OR SIMILAR CONDITIONS THROUGHOUT THE PROJECT.
- 14. CONTRACTOR(S) TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK AND BE RESPONSIBLE FOR COORDINATION OF SAME. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.
- 15. BL COMPANIES WILL PREPARE FINAL CONSTRUCTION DOCUMENTS SUITABLE FOR BIDDING AND CONSTRUCTION. PROGRESS SETS OF THESE DOCUMENTS ARE NOT SUITABLE FOR THOSE PURPOSES. IF CLIENT ELECTS TO SOLICIT BIDS OR ENTER INTO CONSTRUCTION CONTRACTS UTILIZING CONSTRUCTION DOCUMENTS THAT ARE NOT YET FINAL, CONSULTANT SHALL NOT BE RESPONSIBLE FOR ANY COSTS OR DELAY ARISING AS A RESULT.
- 16. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
- 17. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT AND OBTAIN FROM MUNICIPAL SOURCES ALL CONSTRUCTION PERMITS, INCLUDING ANY STATE DOT PERMITS, SEWER AND WATER CONNECTION PERMITS, AND ROADWAY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- 18. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS AND MATERIALS PER PLANS AND SPECIFICATIONS TO THE OWNER AND CIVIL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF FOURTEEN (14) WORKING DAYS FOR REVIEW.
- 19. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE SEDIMENT AND EROSION CONTROL PLAN.
- 20. THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF BUILDING, DRIVE-THRU AREA, AND THE RAISED CONCRETE SIDEWALKS, LANDINGS, RAMPS, AND STAIRS.
- 21. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE CIVIL ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
- 22. ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE OF PAVING AS APPLICABLE UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE.
- 23. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES, TEMPORARY WALKWAYS, TRAFFIC CONTROLLERS AND UNIFORMED TRAFFIC OFFICERS AS REQUIRED OR AS ORDERED BY THE ENGINEER OR AS REQUIRED BY THE LOCAL GOVERNING AUTHORITIES OR AS REQUIRED BY PERMIT STIPULATIONS OR AS REQUIRED BY THE OWNER. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES AND PEDESTRIAN WALKWAYS FOR USE AT ALL TIMES UNLESS WRITTEN APPROVAL FROM THE APPROPRIATE GOVERNING AGENCY IS GRANTED.
- 24. TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE STATE DOT STANDARD DETAIL SHEETS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SIGNS SHALL BE INSTALLED PLUMB WITH THE EDGE OF THE SIGN 2' OFF THE FACE OF THE CURB, AND WITH 7' VERTICAL CLEARANCE UNLESS OTHERWISE DETAILED OR NOTED.
- 25. REFER TO DETAIL SHEETS FOR PAVEMENT, CURBING, AND SIDEWALK INFORMATION.
- 26. THE CONTRACT LIMIT IS THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS.
- 27. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PAVEMENT MARKING PAINT MIXTURE PRIOR TO STRIPING.
- 28. PAVEMENT MARKING KEY:
 - 4" SYDL 4" SOLID YELLOW DOUBLE LINE
 - 4" SYL 4" SOLID YELLOW LINE
 - 4" SWL 4" SOLID WHITE LINE
 - 12" SWSB 12" SOLID WHITE STOP BAR
 - 4" SWL 4" BROKEN WHITE LINE 10' STRIPE 30' SPACE
- 29. PARKING SPACES SHALL BE STRIPED WITH 4" SWL; HATCHED AREA SHALL BE STRIPED WITH 4" SWL AT A 45° ANGLE, 2' ON CENTER. HATCHING, SYMBOLS, AND STRIPING FOR HANDICAPPED SPACES SHALL BE PAINTED WHITE OR AS NOTED.
- 30. ALL PARKING SPACES AND HATCHED AREAS SHALL HAVE TWO COATS OF PAVEMENT MARKINGS APPLIED TO STRIPING.
- 31. PAVEMENT MARKINGS SHALL BE HOT APPLIED TYPE IN ACCORDANCE WITH STATE DOT SPECIFICATIONS, UNLESS WHERE EPOXY RESIN PAVEMENT MARKINGS ARE INDICATED.
- 32. THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, SWALE, PAVEMENT MARKINGS, OR SIGNAGE DISTURBED DURING DEMOLITION AND/OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE CIVIL ENGINEER, AND TO THE SATISFACTION OF THE OWNER AND MUNICIPALITY.
- 33. EXISTING BOUNDARY AND TOPOGRAPHY IS BASED ON DRAWING TITLED "EXISTING CONDITIONS PLAN" SCALE 1"=20', DATED 8/06/2021, BY BISSON AERO
- 34. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, CIVIL ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING PROCESS.
- 35. A DEMOLITION PERMIT IS REQUIRED FOR EXISTING BUILDINGS.
- 36. THE SITE IS CURRENTLY SERVICED BY PUBLIC WATER.
- 37. NO PART OF THE PROJECT PARCEL IS LOCATED WITHIN ANY FEMA DESIGNATED FLOOD HAZARD AREAS.
- 38. THERE ARE NO WETLANDS LOCATED ON THE SITE AS INDICATED BY US FISH AND WILDLIFE SERVICE NATIONAL WETLAND INVENTORY MAPPING.
- 39. THE EXISTING BUILDING IS TO REMAIN OPEN FOR BUSINESS UNTIL THE CONSTRUCTION OF THE PROPOSED BUILDING IS COMPLETE, AT WHICH TIME THE EXISTING BUILDING WILL BE DEMOLISHED AND PARKING IMPROVEMENTS IN THIS AREA COMPLETED.
- 40. FIRE LANES SHALL BE ESTABLISHED AND PROPERLY DESIGNATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FIRE DISTRICT FIRE MARSHAL.
- 41. THE CONTRACTOR SHALL REMOVE CONFLICTING PAVEMENT MARKINGS IN THE ROADWAY BY METHOD APPROVED BY THE AUTHORITY HAVING JURISDICTION OR DOT AS APPLICABLE FOR THE LOCATION OF THE WORK.
- 42. ALL ADA DESIGNATED PARKING STALLS, ACCESS AISLES AND PEDESTRIAN WALKWAYS SHALL CONFORM TO THE CURRENT VERSION OF THE AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN AND ANSI STANDARDS AND AS MAY BE SUPERCEDED BY THE STATE BUILDING CODE.
- 43. CONSTRUCTION OCCURRING ON THIS SITE SHALL COMPLY WITH NFPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS, AND CHAPTER 16 OF NFPA 1 UNIFORM FIRE CODE.
- 44. ALL BUILDINGS, INCLUDING FOUNDATION WALLS AND FOOTINGS AND BASEMENT SLABS INDICATED ON THE DEMOLITION PLAN ARE TO BE REMOVED FROM THE SITE. CONTRACTOR SHALL SECURE ANY PERMITS, PAY ALL FEES AND PERFORM CLEARING AND GRUBBING AND DEBRIS REMOVAL PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.
- 45. SEDIMENT AND EROSION CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN AND/OR DEMOLITION PLAN SHALL BE INSTALLED BY THE DEMOLITION CONTRACTOR PRIOR TO START OF DEMOLITION AND CLEARING AND GRUBBING OPERATIONS.
- 46. REMOVE AND DISPOSE OF ANY SIDEWALKS, FENCES, STAIRS, WALLS, DEBRIS AND RUBBISH REQUIRING REMOVAL FROM THE WORK AREA IN AN APPROVED OFF-SITE LANDFILL, BY AN APPROVED HAULER. HAULER SHALL COMPLY WITH ALL REGULATORY REQUIREMENTS.
- 47. THE CONTRACTOR SHALL SECURE ALL PERMITS FOR HIS DEMOLITION AND DISPOSAL OF HIS DEMOLITION MATERIAL TO BE REMOVED FROM THE SITE. THE CONTRACTOR SHALL POST BONDS AND PAY PERMIT FEES AS REQUIRED. BUILDING DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITS AND DISPOSAL OF ALL BUILDING DEMOLITION DEBRIS IN AN APPROVED OFF-SITE LANDFILL.
- 48. ASBESTOS OR HAZARDOUS MATERIAL, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL ABATEMENT CONTRACTOR.
- 49. THE CONTRACTOR SHALL PREPARE ALL MANIFEST DOCUMENTS AS REQUIRED PRIOR TO COMMENCEMENT OF DEMOLITION.

- 50. THE CONTRACTOR SHALL CUT AND PLUG, OR ARRANGE FOR THE APPROPRIATE UTILITY PROVIDER TO CUT AND PLUG ALL SERVICE PIPING AT THE STREET LINE OR AT THE MAIN, AS REQUIRED BY THE UTILITY PROVIDER, OR AS OTHERWISE NOTED OR SHOWN ON THE CONTRACT DRAWINGS. ALL SERVICE PIPING TO BE REMOVED, CUT OR PLUGGED, THE CONTRACTOR SHALL PAY ALL UTILITY PROVIDER FEES FOR ABANDONMENTS AND REMOVALS.
- 51. THE CONTRACTOR SHALL PROTECT ALL IRON PINS, MONUMENTS AND PROPERTY CORNERS DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. ANY CONTRACTOR DISTURBED PINS, MONUMENTS, AND OR PROPERTY CORNERS, ETC. SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- 52. THE DEMOLITION CONTRACTOR SHALL STABILIZE THE SITE AND KEEP EROSION CONTROL MEASURES IN PLACE UNTIL THE COMPLETION OF HIS WORK OR UNTIL THE COMMENCEMENT OF WORK BY THE SITE CONTRACTOR, WHICHEVER OCCURS FIRST, AS REQUIRED OR DEEMED NECESSARY BY THE ENGINEER OR OWNER'S REPRESENTATIVE. THE SITE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE MAINTENANCE OF EXISTING EROSION CONTROL AND SEDIMENTATION CONTROLS AND FOR INSTALLATION OF ANY NEW SEDIMENT AND EROSION CONTROLS AS PER THE SEDIMENT AND EROSION CONTROL PLAN, AT THAT TIME.
- 53. THE CONTRACTOR SHALL PUMP OUT BUILDING FUEL AND WASTE OIL TANKS (IF ANY ARE ENCOUNTERED) AND REMOVE FUEL TO AN APPROVED DISPOSAL AREA BY A LICENSED WASTE OIL HANDLING CONTRACTOR IN STRICT ACCORDANCE WITH STATE REQUIREMENTS.
- 54. IF IMPACTED OR CONTAMINATED SOIL IS ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUSPEND EXCAVATION WORK OF IMPACTED SOIL AND NOTIFY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT PRIOR TO PROCEEDING WITH FURTHER WORK IN THE IMPACTED SOIL LOCATION UNTIL FURTHER INSTRUCTED BY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT.
- 55. EXISTING WATER SERVICES SHALL BE DISCONNECTED AND CAPPED AT MAIN IN ACCORDANCE WITH THE REQUIREMENTS OF THE WATER UTILITY PROVIDER. REMOVE EXISTING ONSITE WATER PIPING TO BE ABANDONED TO RIGHT OF WAY LINE UNLESS OTHERWISE SHOWN ON DEMOLITION PLANS OR AS REQUIRED BY THE WATER UTILITY PROVIDER TO BE REMOVED TO MAIN.
- 56. EXISTING SANITARY LATERAL SHALL BE PLUGGED WITH NON-SHRINK GROUT AT CURB LINE OR AT MAIN CONNECTION IN ACCORDANCE WITH THE SANITARY UTILITY PROVIDER REQUIREMENTS. REMOVE EXISTING LATERAL PIPING FROM SITE UNLESS OTHERWISE SHOWN ON DEMOLITION PLANS OR AS REQUIRED BY THE SANITARY UTILITY PROVIDER.
- 57. DOMESTIC GAS SERVICES SHALL BE CAPPED AND SERVICE LINES PURGED OF RESIDUAL GAS IN ACCORDANCE WITH THE GAS UTILITY PROVIDER REQUIREMENTS. WORK TO BE COMPLETED BY THE CONTRACTOR. REMOVE EXISTING SERVICE PIPING ON SITE. ANY PROPANE TANKS SHALL BE PURGED OF RESIDUAL GAS BY PROPANE SUPPLIER. CONTRACTOR SHALL COORDINATE THIS WORK AND PAY NECESSARY FEES.
- 58. THE CONTRACTOR SHALL PROVIDE DISCONNECT NOTIFICATION TO THE MUNICIPALITY ENGINEERING DEPARTMENT, TELECOMMUNICATIONS UTILITY PROVIDER, GAS UTILITY PROVIDER, ELECTRIC UTILITY PROVIDER, SANITARY UTILITY PROVIDER, AND WATER UTILITY PROVIDER AT LEAST THREE WEEKS PRIOR TO BEGINNING DEMOLITION.
- 59. THE CONTRACTOR IS RESPONSIBLE FOR SECURING A DEMOLITION PERMIT FROM THE MUNICIPAL BUILDING DEPARTMENT AND MUST FURNISH THE REQUIRED APPLICATION MATERIAL AND PAY ALL FEES.
- 60. BACK FILL DEPRESSIONS, FOUNDATION HOLES AND REMOVED DRIVEWAY AREAS IN LOCATIONS NOT SUBJECT TO FURTHER EXCAVATION WITH SOIL MATERIAL APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER AND COMPACT, FERTILIZE, SEED AND MULCH DISTURBED AREAS NOT SUBJECT TO FURTHER SITE CONSTRUCTION. DEMOLISHED BUILDING FOUNDATION AREA AND BASEMENT IF PRESENT TO BE BACKFILLED WITH GRAVEL FILL OR MATERIAL SPECIFIED IN THE PROJECT GEOTECHNICAL REPORT IN LIFT THICKNESS SPECIFIED IN THE GEOTECHNICAL REPORT, COMPACT TO 95% MAX. DRY DENSITY PER ASTM D1557 AT MOISTURE CONTENT SPECIFIED IN GEOTECHNICAL REPORT AND EARTHWORK SPECIFICATION. EMPLOY WATERING EQUIPMENT FOR DUST CONTROL.
- 61. THE CONTRACTOR SHALL REPAIR PAVEMENTS BY INSTALLING TEMPORARY AND PERMANENT PAVEMENTS IN PUBLIC RIGHTS OF WAY'S AS REQUIRED BY LOCAL GOVERNING AUTHORITIES AND THE STATE AND PER PERMIT REQUIREMENTS DUE TO DEMOLITION AND PIPE REMOVAL ACTIVITIES.
- 62. THE CONTRACTOR SHALL CUT AND REMOVE AT LUMINARE AND SIGN LOCATIONS ANY PROTRUDING CONDUITS TO 24" BELOW GRADE. THE CONTRACTOR SHALL REMOVE ALL CABLE AND CONDUCTORS FROM REMAINING LIGHTING AND SIGNING CONDUITS TO BE ABANDONED. ANY REMAINING LIGHTING TO REMAIN IN PLACE SHALL BE RECRUITED OR REWIRED AS NECESSARY TO REMAIN IN OPERATION.
- 63. NO WORK ON THIS SITE SHALL BE INITIATED BY THE CONTRACTOR UNTIL A PRE-CONSTRUCTION MEETING WITH OWNER AND THE CIVIL ENGINEER IS PERFORMED. THE CONTRACTOR SHOULD BE AWARE OF ANY SITE INFORMATION AVAILABLE SUCH AS GEOTECHNICAL AND ENVIRONMENTAL REPORTS. THE CONTRACTOR SHALL HAVE PA ONE CALL MARK OUTS OF EXISTING UTILITIES COMPLETED PRIOR TO MEETING.
- 64. THE CONTRACTOR SHALL ARRANGE FOR AND INSTALL TEMPORARY OR PERMANENT UTILITY CONNECTIONS WHERE INDICATED ON PLAN OR AS REQUIRED. MAINTAIN UTILITY SERVICES TO BUILDINGS OR TO SERVICES TO REMAIN. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDERS FOR INSTALLATION AND PAY UTILITY PROVIDER FEES.
- 65. THE CONTRACTOR SHALL NOT COMMENCE DEMOLITION OR UTILITY DISCONNECTIONS UNTIL AUTHORIZED TO DO SO BY THE OWNER.
- 66. THE CONTRACTOR OR DEMOLITION CONTRACTOR SHALL INSTALL TEMPORARY SHEETING OR SHORING AS NECESSARY TO PROTECT EXISTING AND NEW BUILDINGS, STRUCTURES AND UTILITIES DURING CONSTRUCTION AND DEMOLITION. SHEETING OR SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, LICENSED IN THIS STATE AND EVIDENCE OF SUCH SUBMITTED TO THE OWNER PRIOR TO INSTALLATION.
- 67. NO SALVAGE SHALL BE PERMITTED UNLESS PAID TO THE OWNER AS A CREDIT.
- 68. ANY EXISTING POTABLE WELL AND ANY EXISTING SEPTIC TANKS/ABSORPTION AREAS SHALL BE ABANDONED AND REMOVED PER THE PA DEP AND HEALTH CODE REQUIREMENTS.
- 69. THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO SEDIMENT AND EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND EROSION CONTROL NOTES.
- 70. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR USE IN FINAL LANDSCAPING.
- 71. FILL WITH FORMER BUILDING FOUNDATION SHALL BE CHECKED BY TEST PIT AND PROOF-ROLLING AND SHALL BE OBSERVED BY THE OWNER'S GEOTECHNICAL ENGINEER. SUBGRADE SHALL BE FORMED WITH REMOVAL AND REPLACEMENT OF FILL AND REMOVAL AND REPLACEMENT OF UNSUITABLE AND SOFT SUBGRADE AS REQUIRED BY THE GEOTECHNICAL ENGINEER. SEE GEOTECHNICAL REPORT AND EARTHWORK SPECIFICATIONS FOR FURTHER DESCRIPTION.
- 72. THE CONTRACTOR SHALL COMPACT FILL IN LIFT THICKNESS PER THE GEOTECHNICAL REPORT UNDER ALL PARKING, BUILDING, DRIVE, AND STRUCTURE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST), OR AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
- 73. UNDERDRAINS SHALL BE ADDED, IF DETERMINED NECESSARY IN THE FIELD BY THE OWNER/GEOTECHNICAL ENGINEER, AFTER SUBGRADE IS ROUGH GRADED.
- 74. VERTICAL DATUM IS NAVD 88.
- 75. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE DAUPHIN COUNTY CONSERVATION DISTRICT AGENT PRIOR TO THE START OF WORK ON THE SITE.
- 76. PROPER CONSTRUCTION PROCEDURES SHALL BE FOLLOWED ON ALL IMPROVEMENTS WITHIN THIS PARCEL, SO AS TO PREVENT THE SILTING OF ANY WATERCOURSE OR WETLANDS IN ACCORDANCE WITH THE REGULATIONS OF THE PADEP AND THE PADEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL, LATEST EDITION. IN ADDITION, THE CONTRACTOR SHALL STRICTLY ADHERE TO THE SEDIMENT AND EROSION CONTROL PLAN CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO POST ALL BONDS AS REQUIRED BY THE LOCAL MUNICIPALITIES, OR COUNTY CONSERVATION DISTRICT WHICH WOULD GUARANTEE THE PROPER IMPLEMENTATION OF THE PLAN.
- 77. ALL SITE WORK, MATERIALS OF CONSTRUCTION, AND CONSTRUCTION METHODS FOR EARTHWORK AND STORM DRAINAGE WORK SHALL CONFORM TO THE SPECIFICATIONS AND DETAILS AND APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS MANUAL. OTHERWISE THIS WORK SHALL CONFORM TO THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND PROJECT GEOTECHNICAL REPORT IF THERE IS NO PROJECT SPECIFICATIONS MANUAL. ALL FILL MATERIAL UNDER STRUCTURES AND PAVED AREAS SHALL BE PER THE ABOVE STATED APPLICABLE SPECIFICATIONS, AND/OR PROJECT GEOTECHNICAL REPORT, AND SHALL BE PLACED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER. MATERIAL SHALL BE COMPACTED IN LIFT THICKNESSES PER THE PROJECT GEOTECHNICAL REPORT TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 AT MOISTURE CONTENT INDICATED IN PROJECT GEOTECHNICAL REPORT.
- 78. ALL DISTURBANCE INCURRED TO MUNICIPAL, COUNTY, AND COMMONWEALTH PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE MUNICIPALITY, COUNTY AND COMMONWEALTH AS APPLICABLE FOR THE LOCATION OF THE WORK.
- 79. ALL CONSTRUCTION WITHIN A DOT RIGHT OF WAY SHALL COMPLY WITH ALL DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
- 80. THE UTILITY PLAN DETAILS SITE INSTALLED PIPES UP TO 5' FROM THE BUILDING FACE. REFER TO DRAWINGS BY MEP ENGINEER FOR BUILDING CONNECTIONS. SITE CONTRACTOR SHALL SUPPLY AND INSTALL PIPE ADAPTERS AS NECESSARY AT BUILDING CONNECTION POINT OR AT EXISTING UTILITY OR PIPE CONNECTION POINT.
- 81. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE PROPOSED SANITARY SEWERS AND WHERE PROPOSED STORM PIPING WILL CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED SANITARY SEWERS, STORM PIPING AND UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
- 82. UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY PROVIDER AND GOVERNING AUTHORITY STAFF REVIEW.
- 83. THE CONTRACTOR SHALL ENSURE THAT ALL UTILITY PROVIDERS AND GOVERNING AUTHORITY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. THE CONTRACTOR SHALL PERFORM PROPER COORDINATION WITH THE RESPECTIVE UTILITY PROVIDER.
- 84. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY PROVIDERS FOR SERVICE INSTALLATIONS AND CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY PROVIDERS AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATIONS MANUAL AND/OR GENERAL CONDITIONS OF THE CONTRACT.
- 85. ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE SAW CUT. AFTER UTILITY INSTALLATION IS COMPLETED, THE CONTRACTOR SHALL INSTALL TEMPORARY AND/OR PERMANENT PAVEMENT REPAIR AS DETAILED ON THE DRAWINGS OR AS REQUIRED BY THE OWNER HAVING JURISDICTION.
- 86. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- 87. SANITARY LATERAL SHALL MAINTAIN 10' MIN. HORIZONTAL 1.5' VERTICAL MIN. SEPARATION DISTANCE FROM WATER LINES, OR ADDITIONAL PROTECTION MEASURES WILL BE REQUIRED WHERE PERMITTED, WHICH SHALL INCLUDE CONCRETE ENCASEMENT OF PIPING UNLESS OTHERWISE DIRECTED BY THE UTILITY PROVIDERS AND CIVIL ENGINEER.
- 88. RELOCATION OF UTILITY PROVIDER FACILITIES SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY PROVIDER.
- 89. THE CONTRACTOR SHALL COMPACT THE PIPE BACKFILL IN 8" LIFTS ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED PER THE TRENCH DETAILS AND IN AREAS OF ROCK EXCAVATION.
- 90. CONTRACTOR TO PROVIDE STEEL SLEEVES AND ANNUAL SPACE SAND FILL FOR UTILITY PIPE AND CONDUIT CONNECTIONS UNDER FOOTINGS.
- 91. BUILDING UTILITY PENETRATIONS AND LOCATIONS ARE SHOWN FOR THE CONTRACTOR'S INFORMATION AND SHALL BE VERIFIED WITH THE BUILDING MEP, STRUCTURAL, AND ARCHITECTURAL DRAWINGS AND WITH THE OWNER'S CONSTRUCTION MANAGER.
- 92. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN ACCORDANCE WITH THE APPROPRIATE UTILITY PROVIDER REQUIREMENTS.

DEFINITIONS

MUNICIPALITY SHALL MEAN SUSQUEHANNA TOWNSHIP
COUNTY SHALL MEAN DAUPHIN COUNTY
STATE OR COMMONWEALTH SHALL MEAN PENNSYLVANIA
WATER UTILITY PROVIDER SHALL MEAN SUEZ WATER
SANITARY UTILITY PROVIDER SHALL MEAN SUSQUEHANNA TOWNSHIP SEWER AUTHORITY
GAS UTILITY PROVIDER SHALL MEAN UGL
TELECOMMUNICATIONS UTILITY PROVIDER SHALL MEAN VERIZON
ELECTRIC UTILITY PROVIDER SHALL MEAN PEE

DATE:	08/06/2021	
PROJECT NO:	2101256	
DRAWN BY:	JRJ	
CHECKED BY:	AJB	
REVISIONS:		
1	PER TWP COMMENTS	2021-08-13
2	PER TWP COMMENTS	2021-10-08
3	PER TWP COMMENTS	2021-12-03

TOMMY CAR WASH SYSTEM
3523 UNION DEPOSIT RD
HARRISBURG, PA
P2825

Architecture
Engineering
Environmental
Land Surveying
BC Companies
2601 Market Place
Suite 350
Harrisburg, PA 17110
(717) 943-1665
(717) 651-9858 Fax
Project No. 2101256

CHRISTIANSON COMPANIES
PH. (701) 281-9500
FAX (701) 281-9501
4609 33RD AVE. S.
SUITE 400
FARGO, ND 58104

IRG DESIGN
PH. (701) 499-0212
FAX (701) 281-9501

SHEET DESCRIPTION:
GENERAL NOTES
Sheet
GN-1
No. 02 of 14

LEGEND	
	PROPERTY LINE
	R.O.W./EASEMENT LINE
	CONTOUR
	WATER LINE
	ELECTRIC LINE
	SANITARY SEWER LINE
	OVERHEAD WIRES
	FENCE
	UTILITY POLE & GUY WIRE
	LIGHT POLE
	CATCH BASIN
	SANITARY SEWER MANHOLE
	SANITARY SEWER CLEANOUT
	HYDRANT
	WATER VALVE
	SIGN
	BOLLARD
	TREE LINE
	TREE/SHRUBS

DATE:	08/06/2021
PROJECT NO:	2101256
DRAWN BY:	JRJ
CHECKED BY:	AJB
REVISIONS:	
1	PER TWP COMMENTS 2021-08-13
2	PER TWP COMMENTS 2021-10-08
3	PER TWP COMMENTS 2021-12-03
COPYRIGHT © DESIGN RESOURCES GROUP	

TOMMY CAR WASH SYSTEM
3523 UNION DEPOSIT RD
HARRISBURG, PA

P2825

Architecture
 Engineering
 Environmental
 Land Surveying

2601 Market Place
 Suite 350
 Harrisburg, PA 17110
 (717) 943-1665
 (717) 651-9858 Fax
 Project No. 2101256

CHRISTIANSON
 COMPANIES

PH. (701) 281-9500
 FAX (701) 281-9501

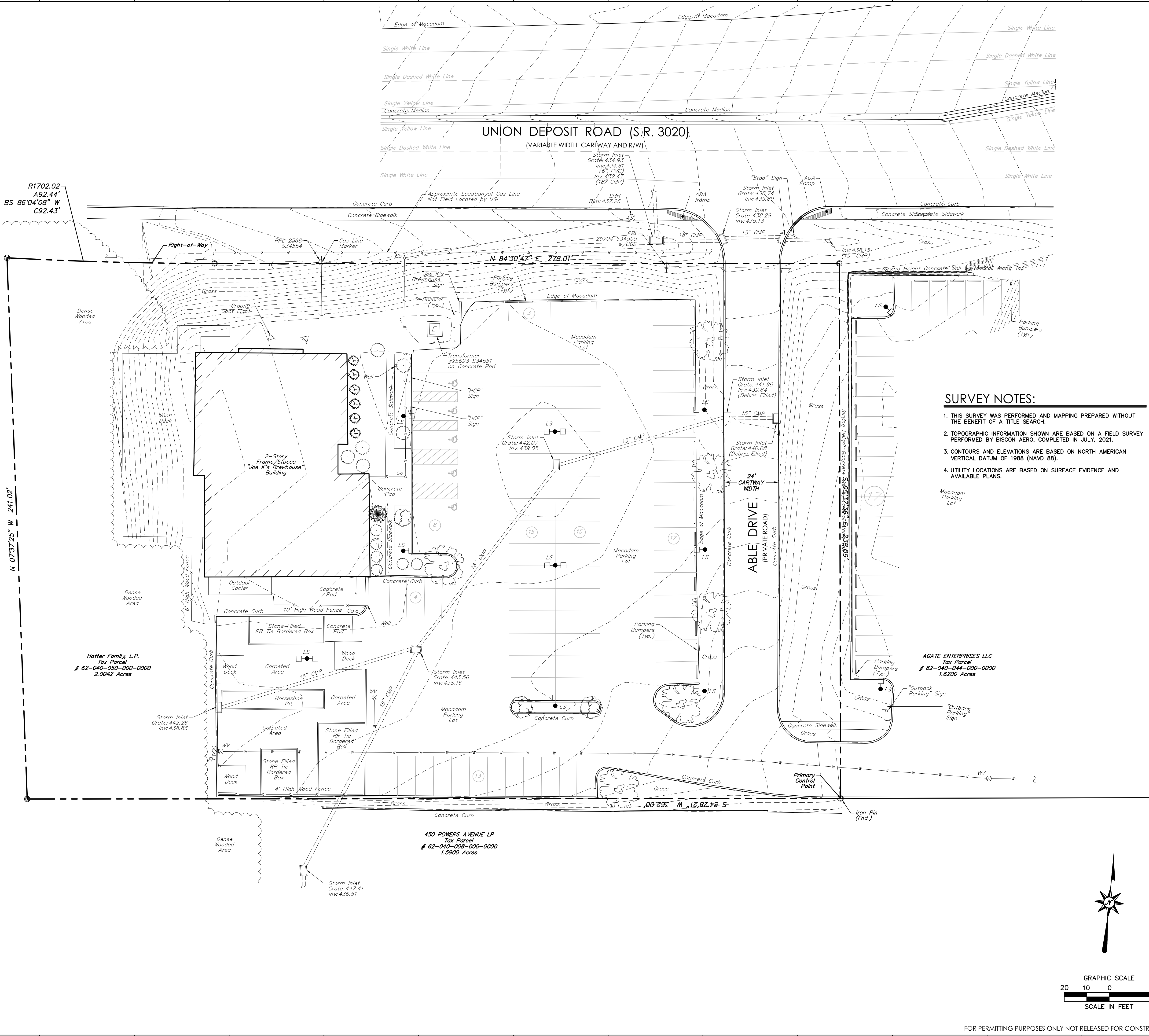
4609 33RD AVE. S.
 SUITE 400
 FARGO, ND 58104

IRG
 DESIGN

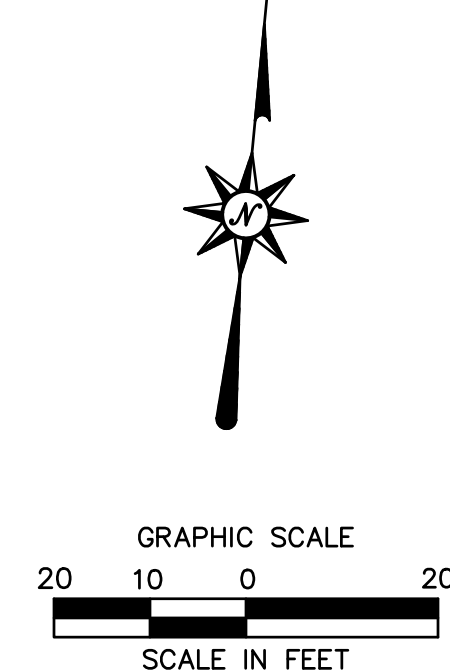
PH. (701) 499-0212
 FAX (701) 281-9501

SHEET DESCRIPTION:
 EXISTING
 CONDITIONS
 PLAN

Sheet
EX-1
 No. 03 of 14



- SURVEY NOTES:**
1. THIS SURVEY WAS PERFORMED AND MAPPING PREPARED WITHOUT THE BENEFIT OF A TITLE SEARCH.
 2. TOPOGRAPHIC INFORMATION SHOWN ARE BASED ON A FIELD SURVEY PERFORMED BY BISCON AERO, COMPLETED IN JULY, 2021.
 3. CONTOURS AND ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
 4. UTILITY LOCATIONS ARE BASED ON SURFACE EVIDENCE AND AVAILABLE PLANS.



FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION



PENNSYLVANIA ACT 287 (1974) AS AMENDED BY PENNSYLVANIA ACT 199 (2004) REQUIRES NO LESS THAN THREE (3) WORKING DAYS AND NO MORE THAN (10) WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH. PA ONE-CALL SERIAL NO. 20211932347-000

LEGEND	
	PROPERTY LINE
	R.O.W./EASEMENT LINE
	CONTOUR
	WATER LINE
	ELECTRIC LINE
	SANITARY SEWER LINE
	OVERHEAD WIRES
	FENCE
	UTILITY POLE & GUY WIRE
	LIGHT POLE
	CATCH BASIN
	SANITARY SEWER MANHOLE
	SANITARY SEWER CLEANOUT
	HYDRANT
	WATER VALVE
	SIGN
	BOLLARD
	TREE LINE
	TREE/SHRUBS
	EXISTING BITUMINOUS PAVEMENT TO BE REMOVED
	EXISTING CONCRETE PAD/SIDEWALK TO BE REMOVED
	EXISTING TREE/SHRUB/LIGHT TO BE REMOVED
	EXISTING STRUCTURE TO BE PROTECTED



DEMOLITION NOTES

- CONTRACTOR SHALL SECURE ANY PERMITS, PAY ALL FEES AND PERFORM CLEARING AND GRUBBING AND DEBRIS REMOVAL PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.
- EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE EROSION AND SEDIMENTATION PLAN SHALL BE INSTALLED BY THE DEMOLITION CONTRACTOR PRIOR TO START OF DEMOLITION, AND CLEARING AND GRUBBING OPERATIONS.
- REMOVE AND DISPOSE OF ANY DEMOLITION MATERIAL, DEBRIS AND RUBBISH REQUIRING REMOVAL FROM THE WORK AREA IN AN APPROVED OFF SITE LANDFILL, BY AN APPROVED HAULER. HAULER SHALL COMPLY WITH ALL REGULATORY REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
- THE CONTRACTOR SHALL PREPARE ALL MANIFEST DOCUMENTS AS REQUIRED PRIOR TO COMMENCEMENT OF DEMOLITION.
- THE CONTRACTOR SHALL CUT AND PLUG, OR ARRANGE FOR THE APPROPRIATE UTILITY COMPANY TO CUT AND PLUG ALL SERVICE PIPING AS REQUIRED, OR AS OTHERWISE NOTED HEREON. ALL SERVICES MAY NOT BE SHOWN ON THIS PLAN. THE CONTRACTOR SHALL INVESTIGATE THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF SERVICE PIPING TO BE REMOVED, CUT OR PLUGGED. THE OWNER SHALL PAY ALL UTILITY CO. PROVIDER FEES FOR ABANDONMENT'S AND REMOVALS.
- THE CONTRACTOR SHALL PROTECT ALL IRON PINS, MONUMENTS AND PROPERTY CORNERS DURING DEMOLITION ACTIVITIES. ANY CONTRACTOR DISTURBED PINS, MONUMENTS, AND/OR PROPERTY CORNERS, ETC. SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- THE DEMOLITION CONTRACTOR SHALL STABILIZE THE SITE AND KEEP EROSION CONTROL MEASURES IN PLACE UNTIL THE COMPLETION OF HIS WORK OR UNTIL THE COMMENCEMENT OF WORK BY THE SITE CONTRACTOR, WHICHEVER OCCURS FIRST, AS REQUIRED OR DEMAILED NECESSARY BY THE ENGINEER OR OWNER'S REPRESENTATIVE. THE SITE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE MAINTENANCE OF EXISTING EROSION AND SEDIMENT CONTROLS AND FOR INSTALLATION OF ANY NEW EROSION AND SEDIMENT CONTROLS AS PER THE EROSION AND SEDIMENTATION PLAN, AT THAT TIME.
- THE CONTRACTOR SHALL ADHERE TO ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOSTS, ETC. IN PROXIMITY OF OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID BY THE CONTRACTOR.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES AND UNIFORMED TRAFFIC CONTROLLERS AS REQUIRED OR ORDERED BY THE ENGINEER, OR REQUIRED BY THE LOCAL GOVERNING AUTHORITIES. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES AND PEDESTRIAN WALKWAYS AT ALL TIMES UNLESS WRITTEN APPROVAL FROM THE APPROPRIATE GOVERNING AGENCY IS GRANTED.
- INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY, AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION THE CONTRACTOR SHALL CONTACT PENNSYLVANIA ONE CALL 72 HOURS BEFORE COMMENCEMENT OF WORK AT (800) 242-1776 AND VERIFY ALL UTILITY AND DRAINAGE LOCATIONS.
- THE CONTRACTOR SHALL PROVIDE DISCONNECT NOTIFICATION TO ALL UTILITIES LISTED WITHIN THE PA ONE-CALL INFORMATION PROVIDED ON SHEET CV-1 AT LEAST THREE WEEKS PRIOR TO BEGINNING DEMOLITION.
- BACKFILL AND COMPACT DEPRESSIONS, FOUNDATION HOLES AND REMOVED DRIVEWAY AREAS WITH APPROVED SOIL MATERIAL. FERTILIZE, SEED AND MULCH DISTURBED AREAS NOT SUBJECT TO FURTHER SITE CONSTRUCTION. BUILDING FOUNDATION AREA TO BE BACKFILLED IN 6" LIFTS WITH GRAVEL FILL OR MATERIAL SPECIFIED IN THE PROJECT GEOTECHNICAL REPORT. COMPACTED TO 95% MAX. DRY DENSITY PER ASTM D1557 AT +/- 3% OF OPTIMUM MOISTURE CONTENT. EMPLOY WATERING EQUIPMENT FOR DUST CONTROL.
- THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPE, UTILITY PAVEMENT, CURBS, SIDEWALKS, DRAINAGE STRUCTURE, SWALE OR LANDSCAPED AREAS DISTURBED DURING DEMOLITION TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE OWNER, EAST PENNSBORO TOWNSHIP AND PENNDOT.
- THE CONTRACTOR SHALL CUT AND REMOVE AT LUMINARIE AND SIGN LOCATIONS ANY PROTRUDING CONDUITS TO 24" BELOW GRADE. THE CONTRACTOR SHALL REMOVE ALL CABLE AND CONDUCTORS FROM REMAINING LIGHTING AND SIGNING CONDUITS TO BE ABANDONED. ANY REMAINING LIGHTING TO REMAIN IN PLACE SHALL BE RECRUITED OR REWIRED AS NECESSARY TO REMAIN IN OPERATION.
- NO WORK ON THIS SITE SHALL BE INITIATED BY THE CONTRACTOR UNTIL A PRE-CONSTRUCTION MEETING WITH OWNER AND THE PROJECT ENGINEER IS PERFORMED. THE CONTRACTOR SHOULD BE AWARE OF ANY SITE INFORMATION AVAILABLE SUCH AS GEOTECHNICAL AND ENVIRONMENTAL REPORTS, AS WELL AS HAVE ONE CALL DIG MARK OUTS OF EXISTING UTILITIES COMPLETED PRIOR TO MEETING.
- THE CONTRACTOR OR DEMOLITION CONTRACTOR SHALL INSTALL TEMPORARY SHEETING OR SHORING AS NECESSARY FOR PROTECTION DURING CONSTRUCTION AND DEMOLITION. SHEETING OR SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, LICENSED IN THIS STATE AND EVIDENCE OF SUCH SUBMITTED TO THE OWNER PRIOR TO INSTALLATION.
- NO SALVAGE SHALL BE PERMITTED UNLESS PAID TO THE OWNER AS A CREDIT.
- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY WITH CFR29 PART 1926 FOR EXCAVATION, TRENCHING, AND TRENCH PROTECTION REQUIREMENTS.
- THE CONTRACTOR SHALL NOT COMMENCE DEMOLITION OR UTILITY DISCONNECTIONS UNTIL AUTHORIZED TO DO SO BY THE OWNER.
- CARE SHOULD BE TAKEN TO PREVENT DUST AND DEBRIS FROM LEAVING THE BOUNDARIES OF THE PROPERTY.
- EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND DO NOT INCLUDE MECHANICAL, ELECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE DEMOLITION WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- ALL EXISTING ABOVE AND BELOW GROUND STRUCTURES WITHIN THE LIMITS OF NEW CONSTRUCTION SHALL BE RAZED UNLESS NOTED OTHERWISE WITHIN THIS CONSTRUCTION SET, ARCHITECTURAL PLANS AND/OR PROJECT SPECIFICATIONS. THIS INCLUDES FOUNDATION SLABS, WALLS, AND FOOTINGS.
- THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
- UTILITY CONTACTS ARE LISTED ON SHEET CV-1.
- ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.

DATE:	08/06/2021
PROJECT NO:	2101256
DRAWN BY:	JRJ
CHECKED BY:	AJB
REVISIONS:	
1	PER TWP COMMENTS 2021-08-13
2	PER TWP COMMENTS 2021-08-28
3	PER TWP COMMENTS 2021-12-03

TOMMY CAR WASH SYSTEM
 3523 UNION DEPOSIT RD
 HARRISBURG, PA
P2825

Architecture
 Engineering
 Environmental
 Land Surveying
BC Companies
 2601 Market Place
 Suite 350
 Harrisburg, PA 17110
 (717) 943-1665
 (717) 651-9858 Fax
 Project No. 2101256

CHRISTIANSON
 COMPANIES
 PH. (701) 281-9500
 FAX (701) 281-9501
 4609 33RD AVE. S.
 SUITE 400
 FARGO, ND 58104

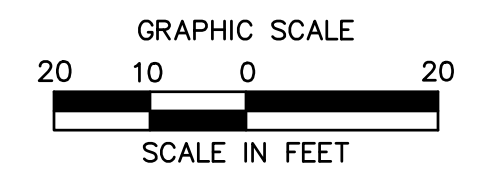
IRG
 DESIGN
 PH. (701) 499-0212
 FAX (701) 281-9501

SHEET DESCRIPTION:
 DEMOLITION
 PLAN

Sheet
DM-1
 No.04 of 14

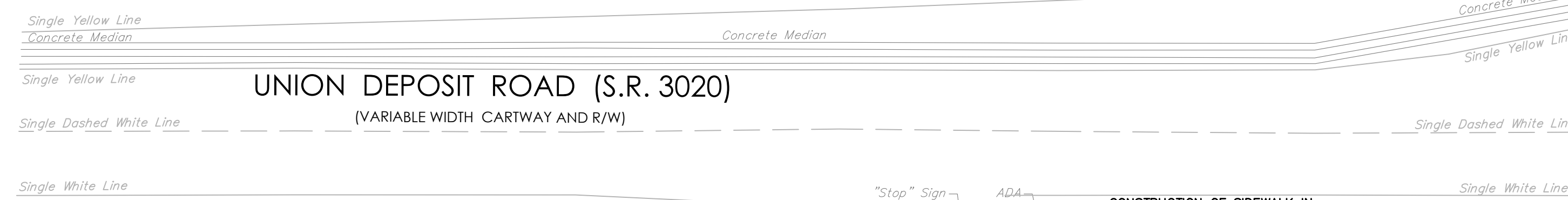


PENNSYLVANIA ACT 287 (1974) AS AMENDED BY PENNSYLVANIA ACT 199 (2004) REQUIRES NO LESS THAN THREE (3) WORKING DAYS AND NO MORE THAN (10) WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH. PA ONE-CALL SERIAL NO. 20211932347-000

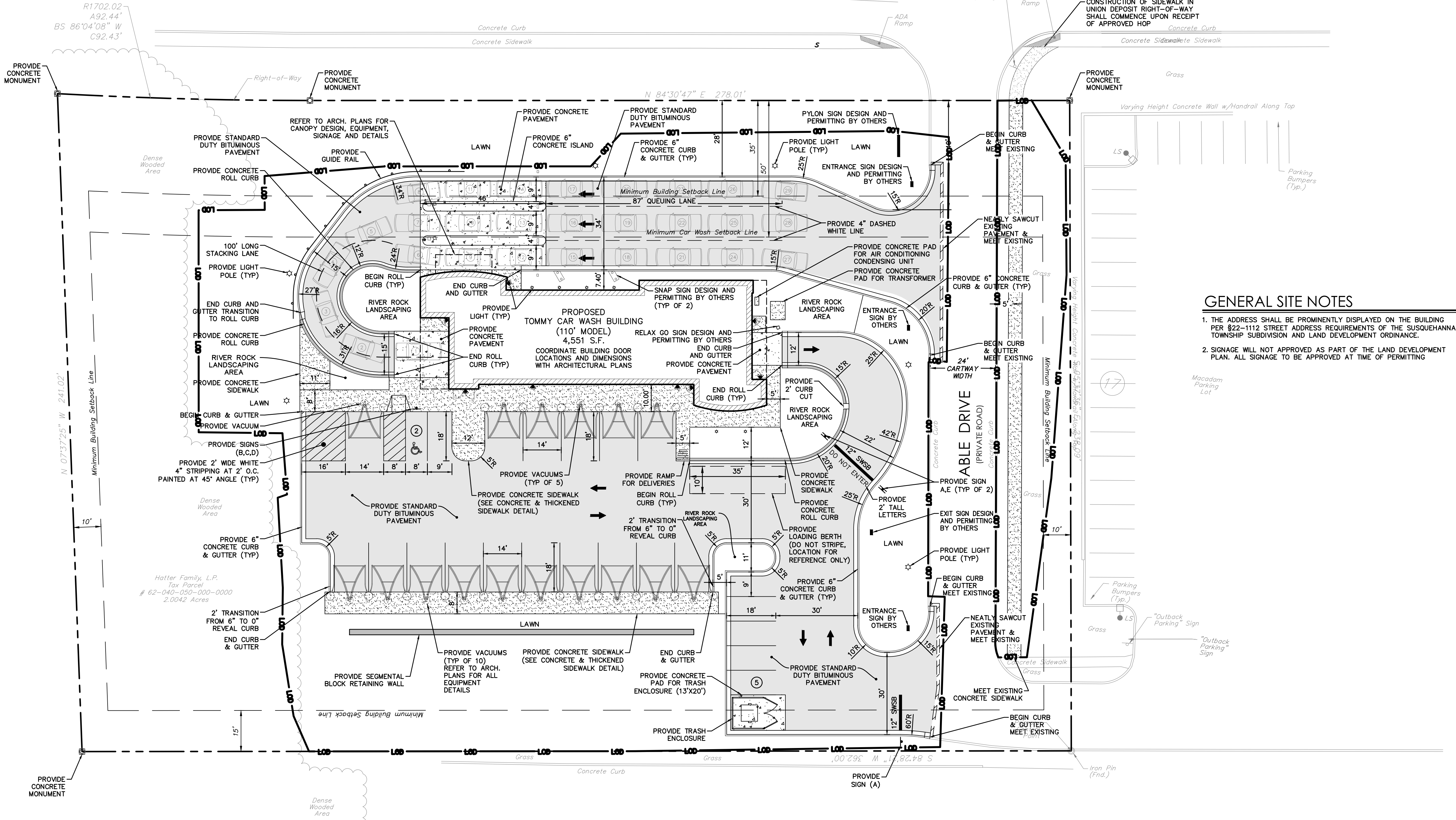


FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION

LEGEND	
LOD	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
---	SAWOUT LINE
---	EXISTING GRADES
---	CONCRETE CURB AND GUTTER
---	ROLLED CONCRETE CURB
---	GUIDERAIL
X X	4' HIGH CHAIN LINK FENCE
---	CONCRETE SIDEWALK
---	HEAVY DUTY CONCRETE
---	STANDARD DUTY BITUMINOUS PAVEMENT



DATE:	08/06/2021
PROJECT NO.:	2101256
DRAWN BY:	JRJ
CHECKED BY:	AJB
REVISIONS:	
1	PER TWP COMMENTS 2021-08-13
2	PER TWP COMMENTS 2021-10-08
3	PER TWP COMMENTS 2021-12-03



GENERAL SITE NOTES

1. THE ADDRESS SHALL BE PROMINENTLY DISPLAYED ON THE BUILDING PER §22-1112 STREET ADDRESS REQUIREMENTS OF THE SUSQUEHANNA TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.
2. SIGNAGE WILL NOT APPROVED AS PART OF THE LAND DEVELOPMENT PLAN. ALL SIGNAGE TO BE APPROVED AT TIME OF PERMITTING

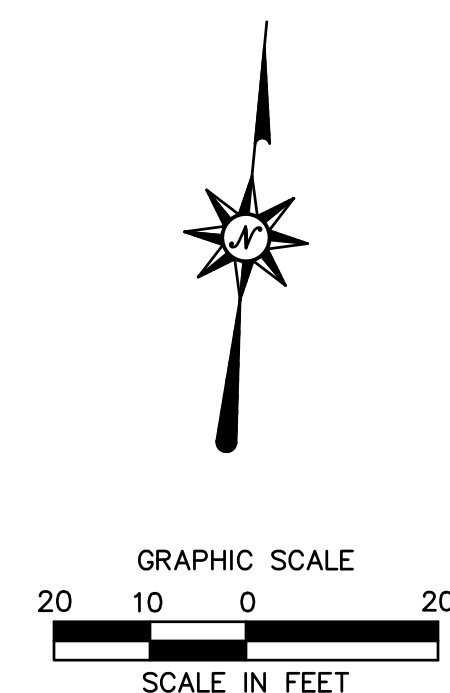
SIGN LEGEND		
NO.	DOT NO. / SIGN SIZE	LEGEND
A	R1-1 30"x30"	STOP
B	R7-8 12"x18"	RESERVED
C	R7-8A 6"x12"	VAN ACCESSIBLE
D	R7-8F 12"x18"	NO PARKING
E	R5-1 30"x30"	NO STOP

PARKING INFORMATION			
ITEM #	ITEM	REQUIREMENTS	PROPOSED
1	BUILDING SIZE	NONE REQUIRED	4,551 SF
2	PARKING REQUIRED BY TOWNSHIP	CAR WASH: 4 SPACES FOR EACH WASHING BAY 1 WASHING BAY x 4 = 4	7 SPACES
3	MINIMUM PARKING DIMENSIONS	9 FEET X 18 FEET	9 FEET X 18 FEET
4	MINIMUM AISLE WIDTH	24 FEET	24 FEET

ZONING INFORMATION			
LOCATION: SUSQUEHANNA TOWNSHIP, DAUPHIN COUNTY			
ZONE: COMMERCIAL HIGHWAY (CH)			
USE: CAR WASH (PERMITTED USE)			
ITEM #	ITEM	REQUIREMENTS	PROPOSED
1	MINIMUM LOT AREA	NONE REQUIRED	2.0042 ACRES
2	MINIMUM FRONT SETBACK	35 FEET	>35 FEET
3	MINIMUM SIDE SETBACK	10 FEET	>10 FEET
4	MINIMUM REAR SETBACK	15 FEET	>15 FEET
5	MAXIMUM BUILDING HEIGHT	60 FEET	<60 FEET
6	MAXIMUM BUILDING COVERAGE	50 PERCENT	5 PERCENT
7	MAXIMUM IMPERVIOUS COVERAGE	80 PERCENT	52 PERCENT
8	MINIMUM VEGETATIVE COVERAGE	20 PERCENT	48 PERCENT



PENNSYLVANIA ACT 287 (1974) AS AMENDED BY PENNSYLVANIA ACT 199 (2004) REQUIRES NO LESS THAN THREE (3) WORKING DAYS AND NO MORE THAN (10) WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH. PA ONE-CALL SERIAL NO. 20211932347-000



TOMMY CAR WASH SYSTEM
3523 UNION DEPOSIT RD
HARRISBURG, PA
P2825

Architecture
Engineering
Environmental
Land Surveying
BC Companies
2601 Market Place
Suite 350
Harrisburg, PA 17110
(717) 943-1665
(717) 651-9858 Fax
Project No. 2101256

CHRISTIANSON
COMPANIES
PH. (701) 281-9500
FAX (701) 281-9501
4609 33RD AVE. S.
SUITE 400
FARGO, ND 58104

IRG DESIGN
PH. (701) 499-0212
FAX (701) 281-9501

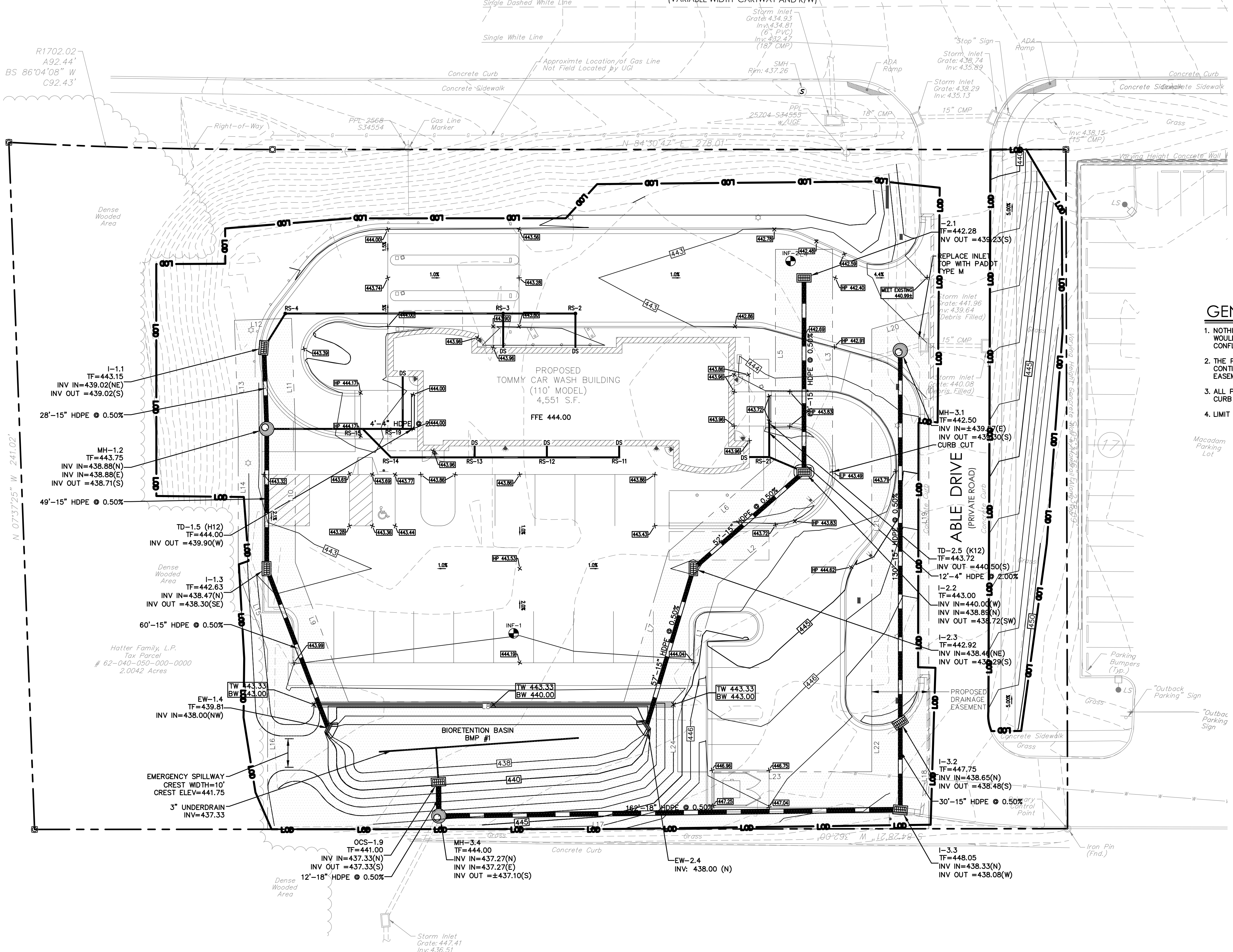
SHEET DESCRIPTION:
SITE PLAN

Sheet
SP-1
No. 05 of 14

LEGEND	
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
---	EXISTING GRADES
---	PROPOSED GRADE BREAK
---	PROPOSED 1" GRADES
---	PROPOSED 5" GRADES
---	SPOT GRADES
---	STORM LINE
---	"M" TYPE CATCH BASIN
---	"C" TYPE CATCH BASIN
---	STORM MANHOLE
---	RIP RAP
---	DOWNSPOUT
---	DRAINAGE EASEMENT

DATE:	08/06/2021
PROJECT NO:	2101256
DRAWN BY:	JRJ
CHECKED BY:	AJB
REVISIONS:	
1	PER TWP COMMENTS 2021-08-13
2	PER TWP COMMENTS 2021-10-08
3	PER TWP COMMENTS 2021-12-03

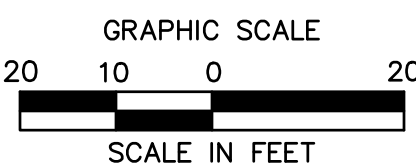
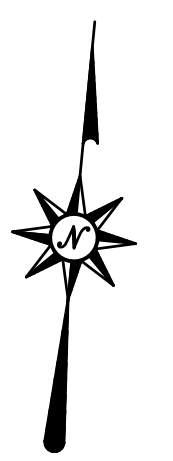
UNION DEPOSIT ROAD (S.R. 3020)
[VARIABLE WIDTH CARTWAY AND R/W]



GENERAL NOTES

1. NOTHING SHALL BE PLANTED OR PLACED WITHIN THE EASEMENT WHICH WOULD ADVERSELY AFFECT THE FUNCTION OF THE EASEMENT, OR CONFLICT WITH ANY CONDITIONS ASSOCIATED WITH SUCH EASEMENT.
2. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ASSURING THE CONTINUED FUNCTIONALITY AND REQUIRED MAINTENANCE OF ANY EASEMENT.
3. ALL PROPOSED SPOT ELEVATIONS SHALL REFER TO THE BOTTOM OF CURB ELEVATION, UNLESS OTHERWISE NOTED.
4. LIMIT OF DISTURBANCE = 1.32 ACRES

Line #	Length	Direction
L1	50.20	N11° 00' 34"E
L2	52.94	N43° 35' 41"E
L3	82.56	N5° 29' 13"W
L4	20.00	S84° 30' 47"W
L5	73.43	S5° 29' 13"E
L6	49.65	S43° 35' 41"W
L7	54.90	S11° 00' 34"W
L8	96.54	S84° 30' 36"W
L9	52.27	N26° 21' 09"W
L10	46.99	N5° 29' 24"W
L11	38.63	N7° 28' 25"W
L12	20.00	S82° 31' 35"W
L13	38.28	S7° 28' 25"E
L14	50.32	S5° 29' 24"E
L15	28.91	S26° 21' 09"E
L16	62.83	S5° 29' 24"E
L17	231.70	N84° 28' 21"E
L18	37.17	N5° 29' 13"W
L19	143.77	N5° 29' 13"W
L20	20.81	S68° 28' 43"W
L21	138.02	S5° 29' 13"E
L22	17.18	S5° 29' 13"E
L23	68.00	S84° 28' 21"W
L24	17.81	N5° 29' 24"W



FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION

TOMMY CAR WASH SYSTEM
3523 UNION DEPOSIT RD
HARRISBURG, PA

P2825

Architecture
Engineering
Environmental
Land Surveying

2601 Market Place
Suite 350
Harrisburg, PA 17110
(717) 943-1665
(717) 651-9858 Fax
Project No. 2101256

CHRISTIANSON
COMPANIES

PH. (701) 281-9500
FAX (701) 281-9501

4609 33RD AVE. S.
SUITE 400
FARGO, ND 58104

PRG
DESIGN

PH. (701) 499-0212
FAX (701) 281-9501

SHEET DESCRIPTION:
GRADING PLAN

Sheet
GD-1
No.06 of 14

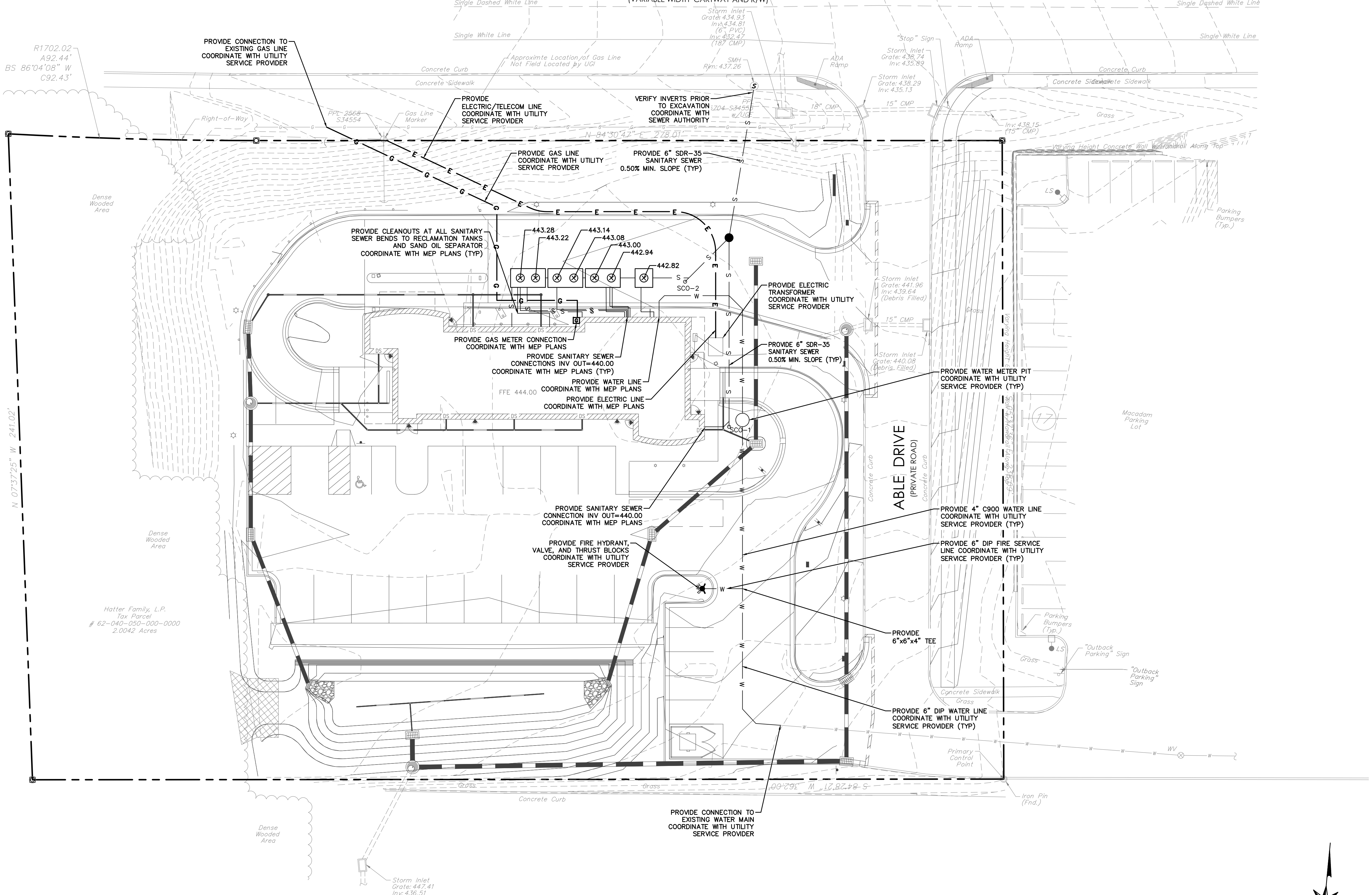


PENNSYLVANIA ACT 287 (1974) AS AMENDED BY PENNSYLVANIA ACT 199 (2004) REQUIRES NO LESS THAN THREE (3) WORKING DAYS AND NO MORE THAN (10) WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH. PA ONE-CALL SERIAL NO. 20211932347-000

LEGEND	
LOD	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
W	DOMESTIC/FIRE PROTECTION WATER LINE
S	SANITARY PIPE CENTER LINE
E	PRIMARY ELECTRIC LINE TO TRANSFORMER
G	GAS LINE
⊙	WATER VALVE
⊙	GAS VALVE
⊙	FIRE HYDRANT
⊙	4" DIAMETER SANITARY MANHOLE
⊙	OIL-WATER SEPARATOR
⊙	SANITARY CLEANOUT
□	PULL BOX

DATE:	08/06/2021
PROJECT NO:	2101256
DRAWN BY:	JRJ
CHECKED BY:	AJB
REVISIONS:	
1	PER TWP COMMENTS 2021-08-13
2	PER TWP COMMENTS 2021-10-08
3	PER TWP COMMENTS 2021-12-03

UNION DEPOSIT ROAD (S.R. 3020)
[VARIABLE WIDTH CARTWAY AND R/W]



TOMMY CAR WASH SYSTEM
3523 UNION DEPOSIT RD
HARRISBURG, PA

P2825

Architecture
Engineering
Environmental
Land Surveying

2601 Market Place
Suite 350
Harrisburg, PA 17110
(717) 943-1665
(717) 651-9858 Fax
Project No. 2101256

CHRISTIANSON
COMPANIES

PH. (701) 281-9500
FAX (701) 281-9501

4609 33RD AVE. S.
SUITE 400
FARGO, ND 58104

RG
DESIGN

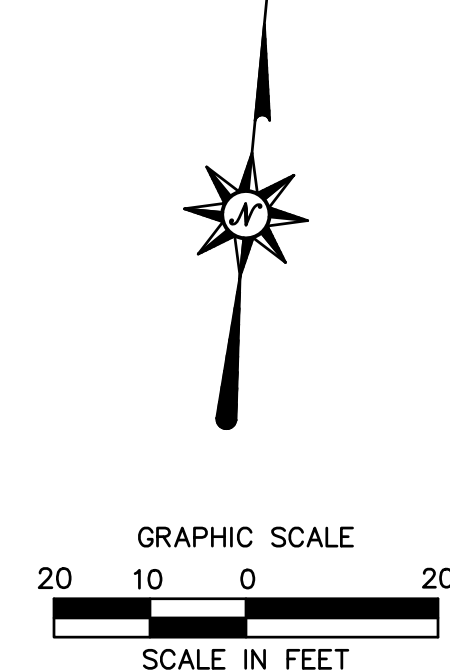
PH. (701) 499-0212
FAX (701) 281-9501

SHEET DESCRIPTION:
SITE UTILITY PLAN

Sheet
SU-1
No. 07 of 14



PENNSYLVANIA ACT 287 (1974) AS AMENDED BY PENNSYLVANIA ACT 199 (2004) REQUIRES NO LESS THAN THREE (3) WORKING DAYS AND NO MORE THAN (10) WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH. PA ONE-CALL SERIAL NO. 20211932347-000



FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION

DATE:	08/06/2021
PROJECT NO:	2101256
DRAWN BY:	JRJ
CHECKED BY:	AJB
REVISIONS:	
1	PER TWP COMMENTS 2021-08-13
2	PER TWP COMMENTS 2021-10-08
3	PER TWP COMMENTS 2021-12-03
COPYRIGHT © DESIGN RESOURCES GROUP	

TOMMY CAR WASH SYSTEM
3523 UNION DEPOSIT RD
HARRISBURG, PA

P2825

Architecture
 Engineering
 Environmental
 Land Surveying

BC Companies

2601 Market Place
 Suite 350
 Harrisburg, PA 17110
 (717) 943-1665
 (717) 651-9858 Fax
 Project No. 2101256

CHRISTIANSON
 COMPANIES

PH. (701) 281-9500
 FAX (701) 281-9501

4609 33RD AVE. S.
 SUITE 400
 FARGO, ND 58104

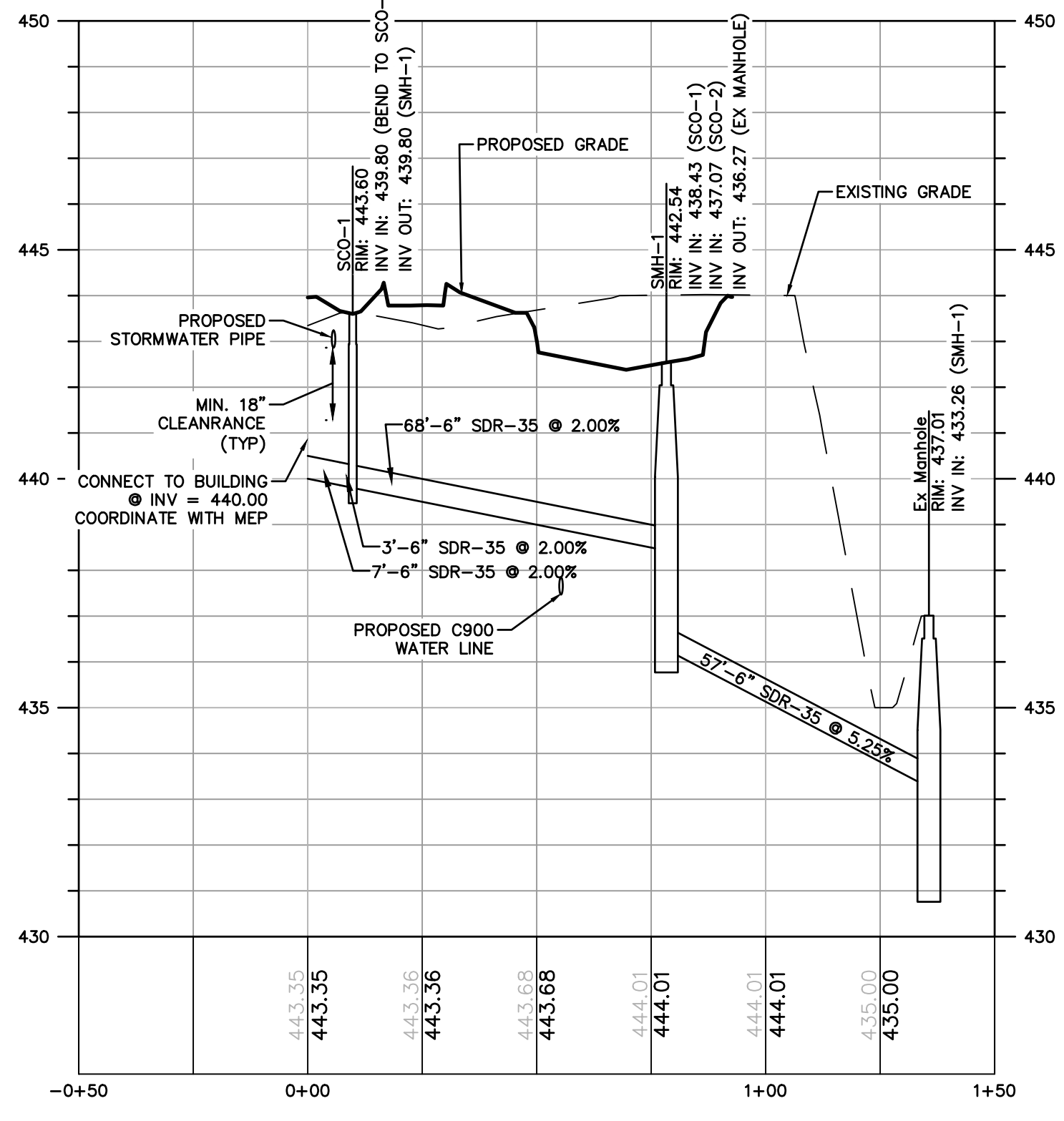
DESIGN
 NOTED

PH. (701) 499-0212
 FAX (701) 281-9501

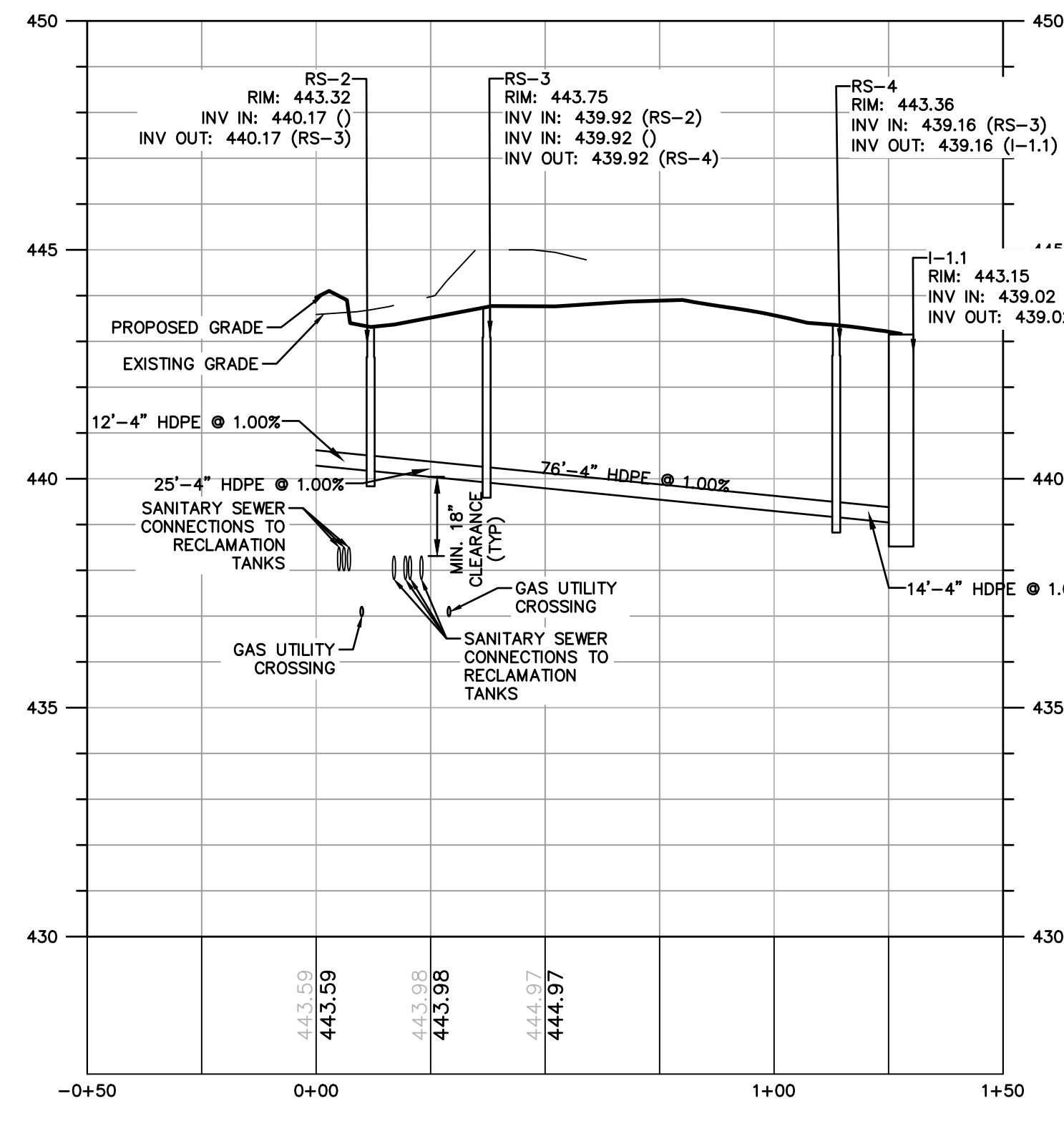
SHEET DESCRIPTION:
 PROFILES

Sheet
PR-1
 No. 08 of 14

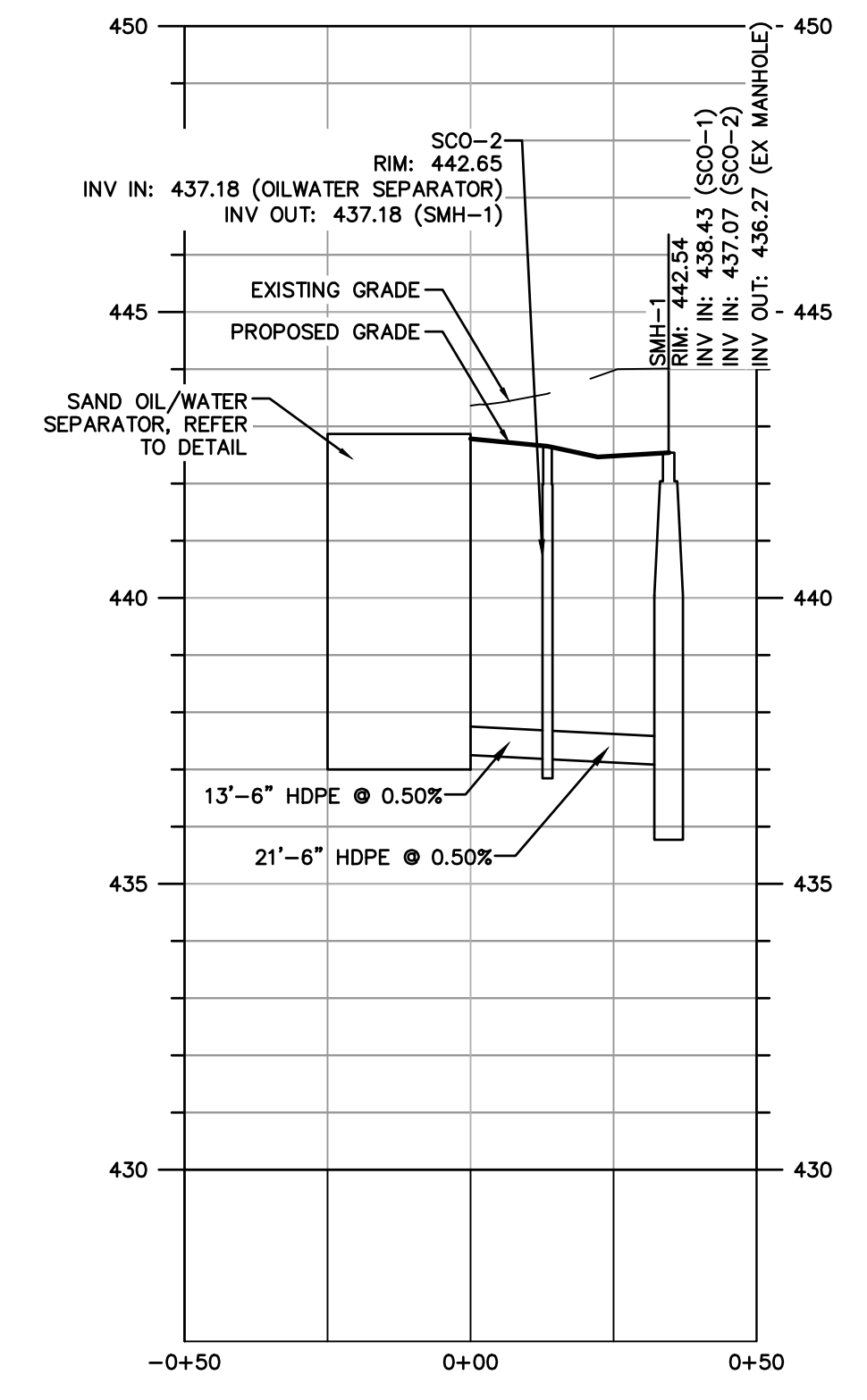
SANITARY: Building Connect to Ex Manhole



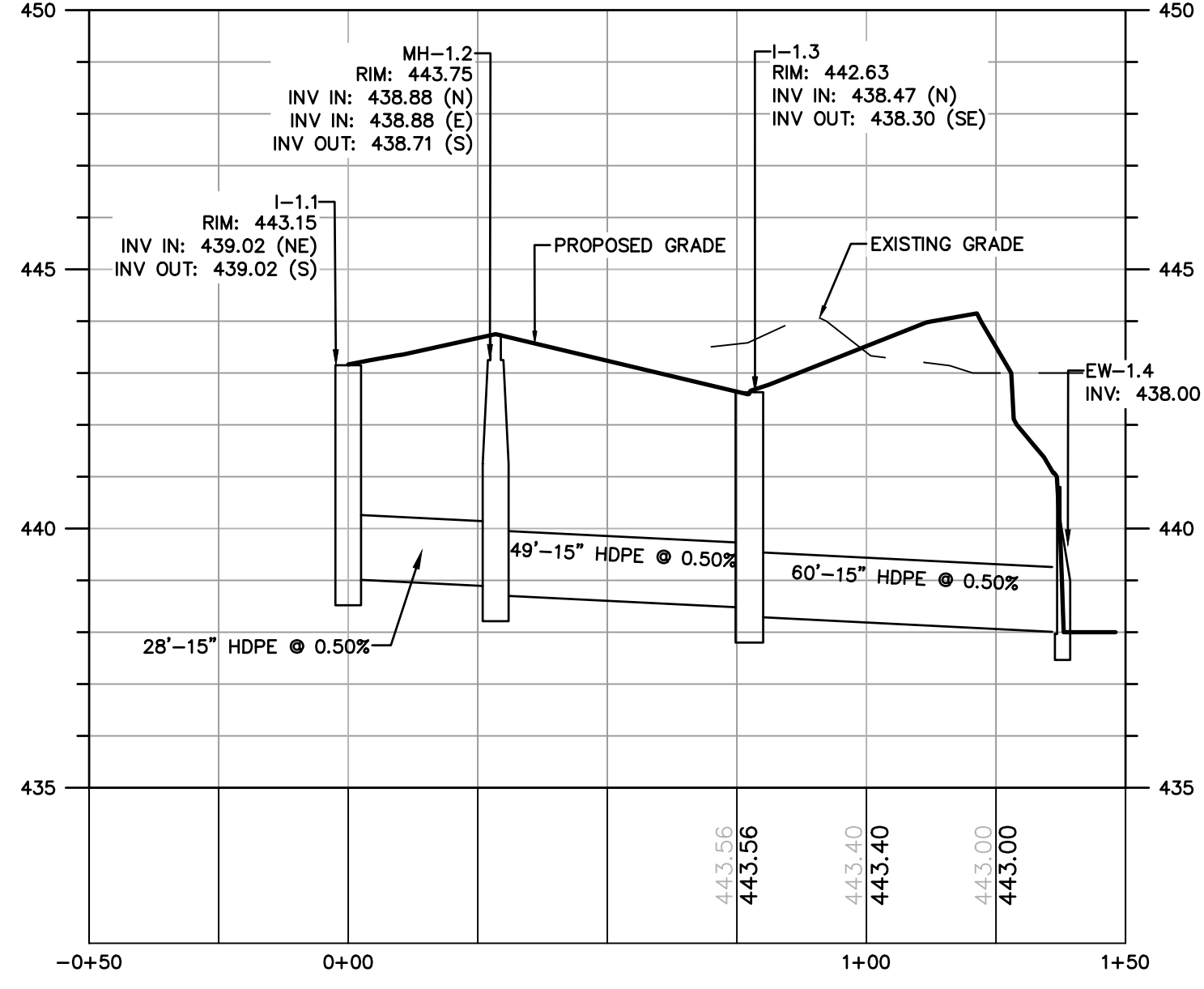
STORM: ROOF DRAIN TO I-1.1



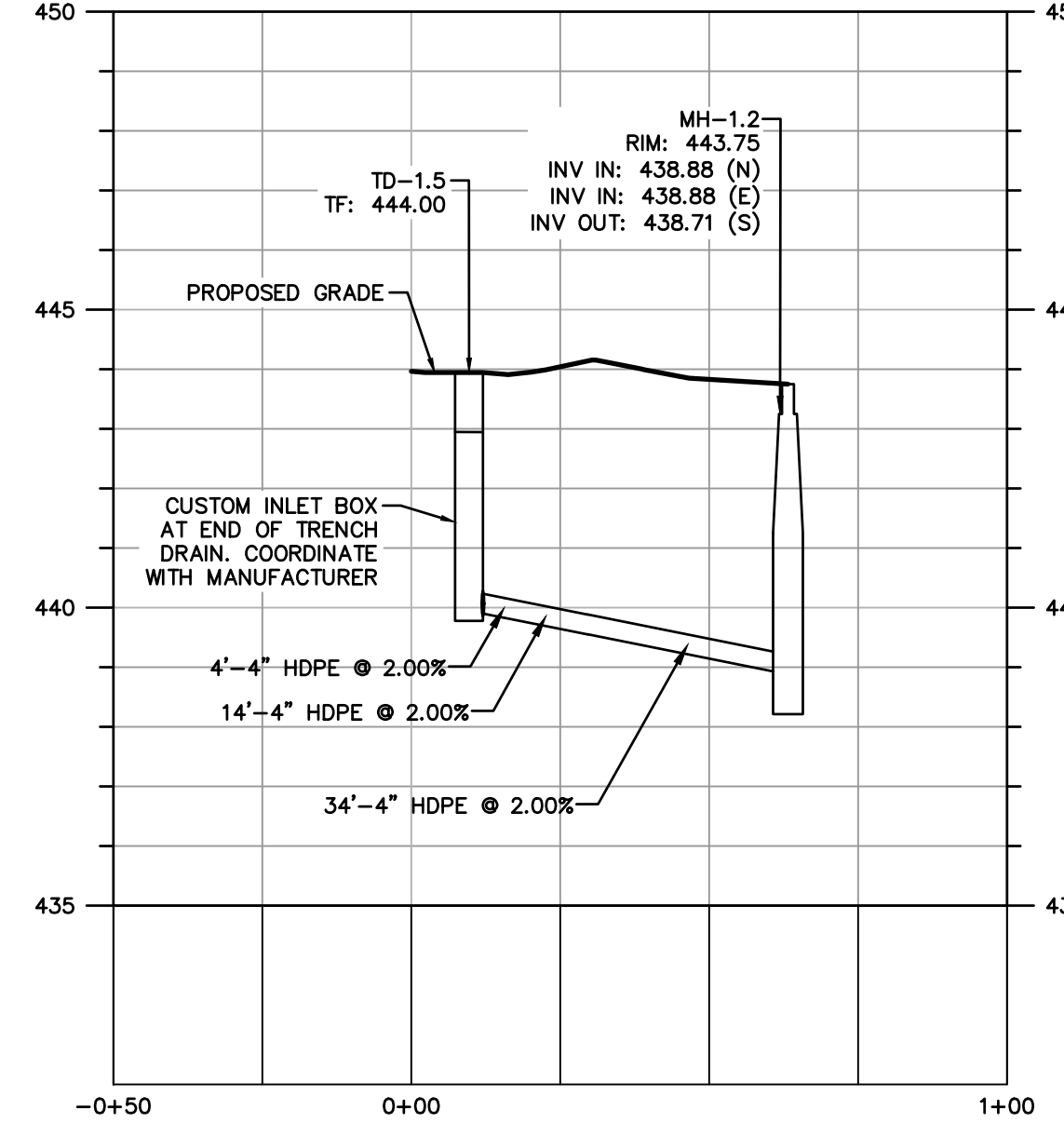
SANITARY: OW Separator to SMH-1



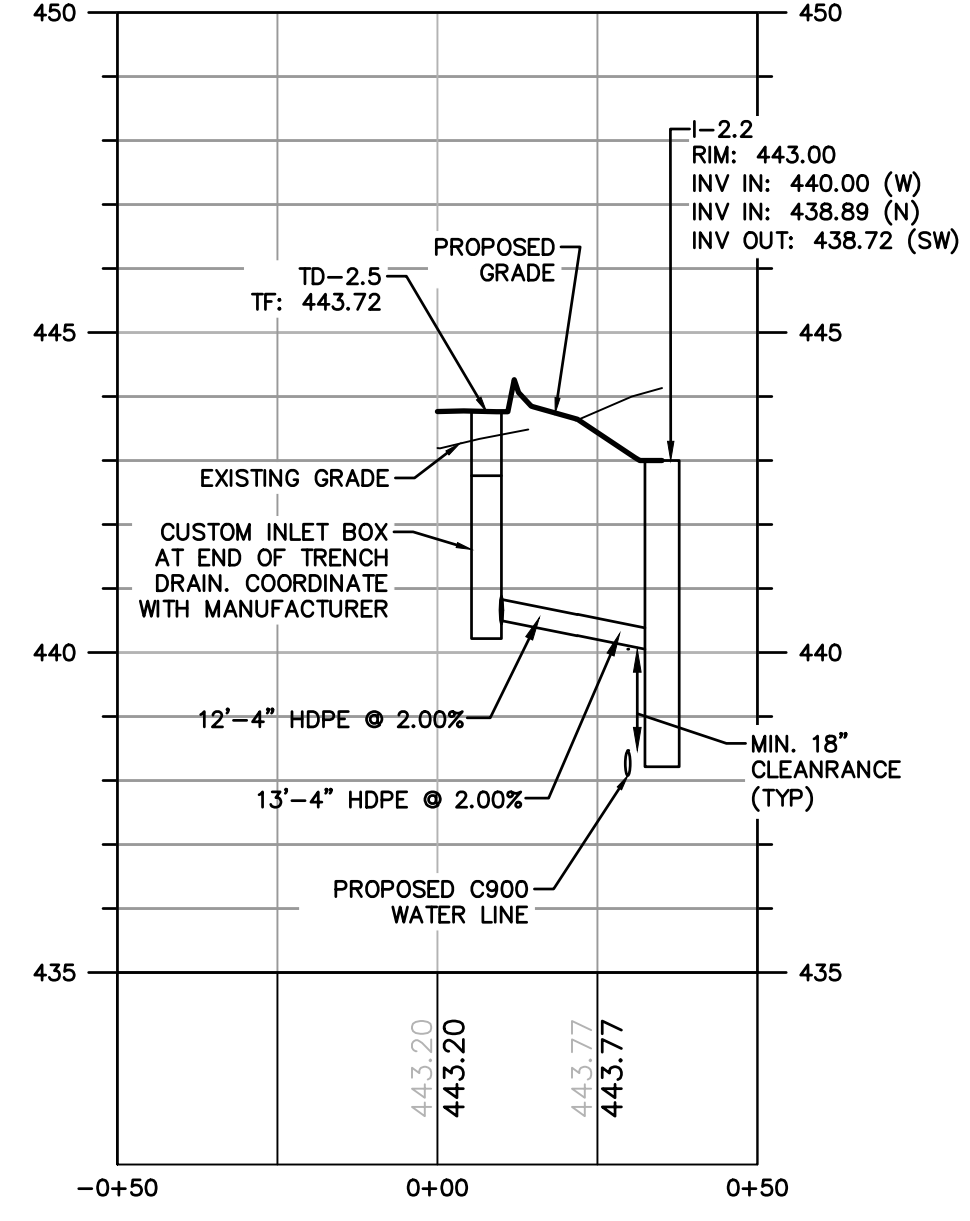
STORM: I-1.1 to EW-1.4



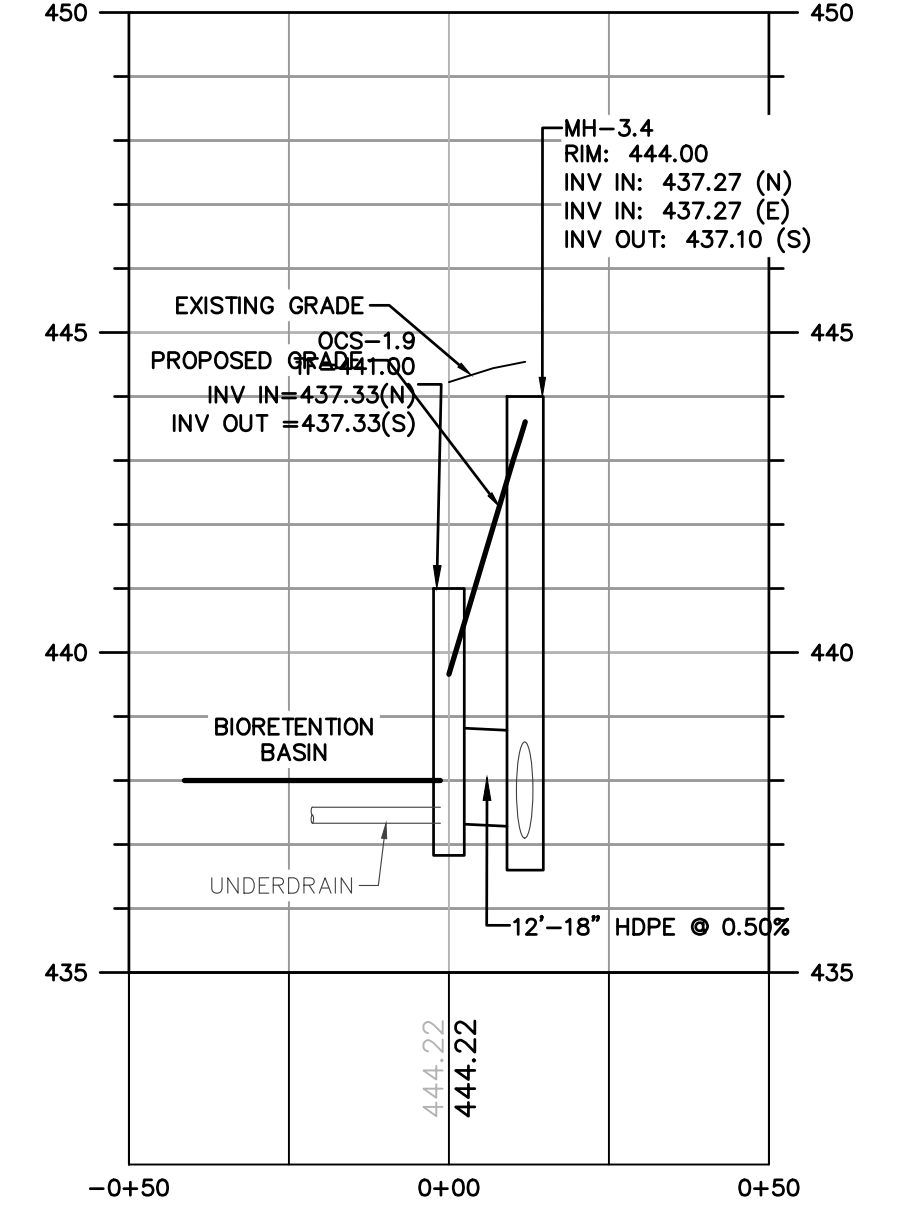
STORM: TD-1.5 to MH-1.2



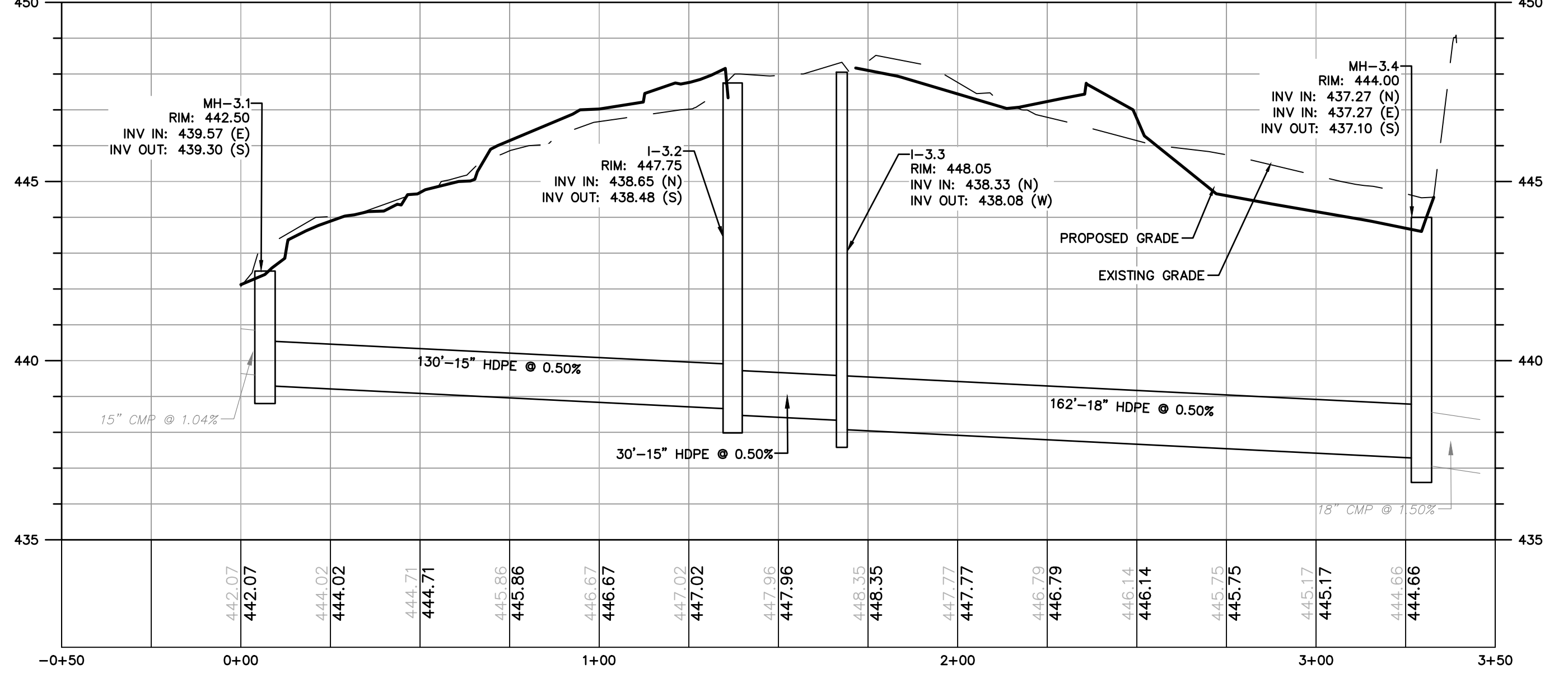
STORM: TD-2.5 to I-2.2



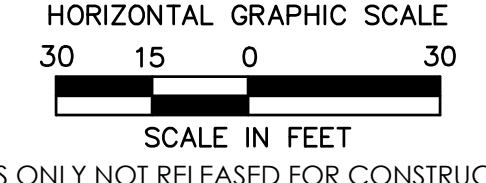
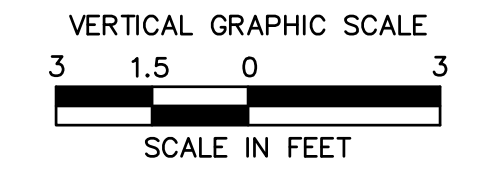
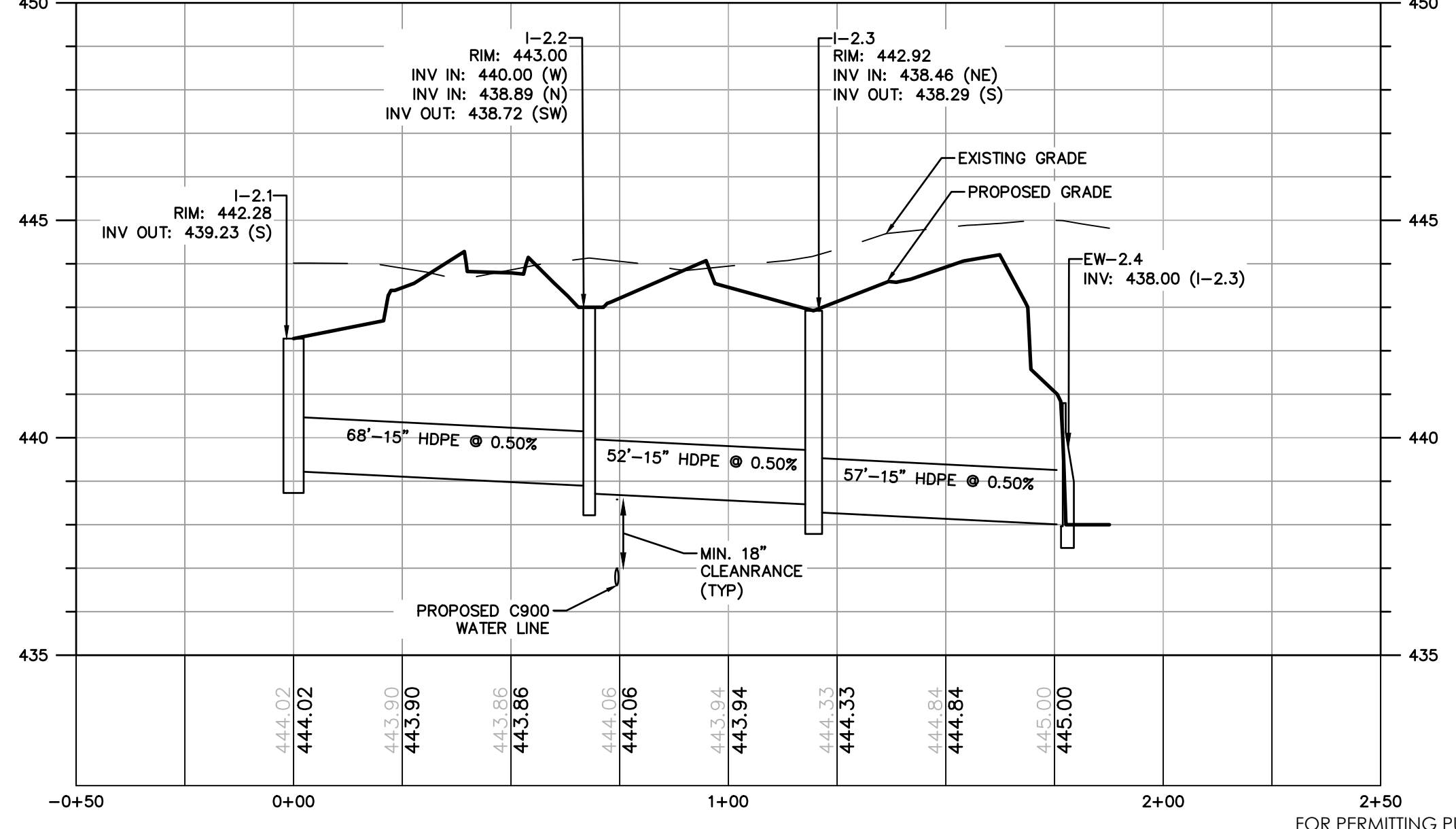
STORM: OCS-1.9 to MH-3.4



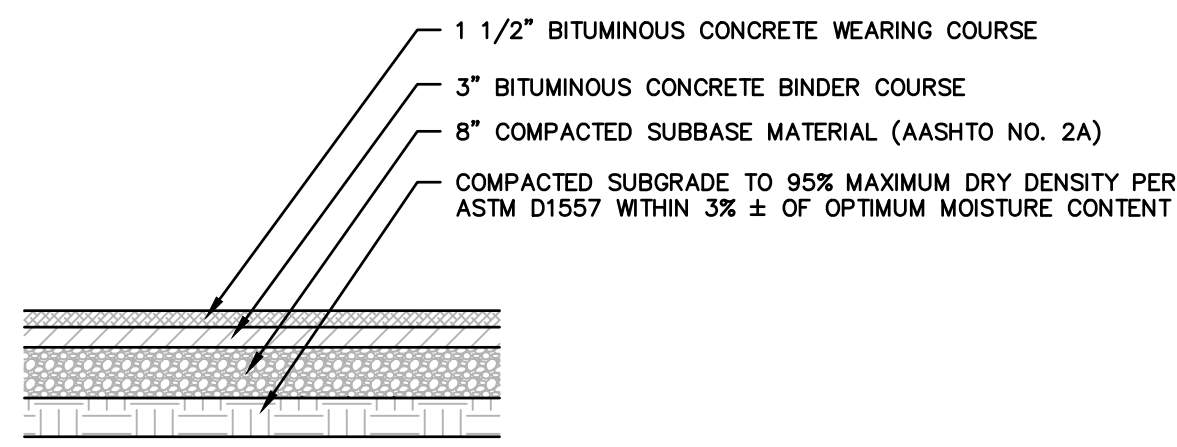
STORM: Ex Inlet to MH-3.4



STORM: I-2.1 to EW-2.4

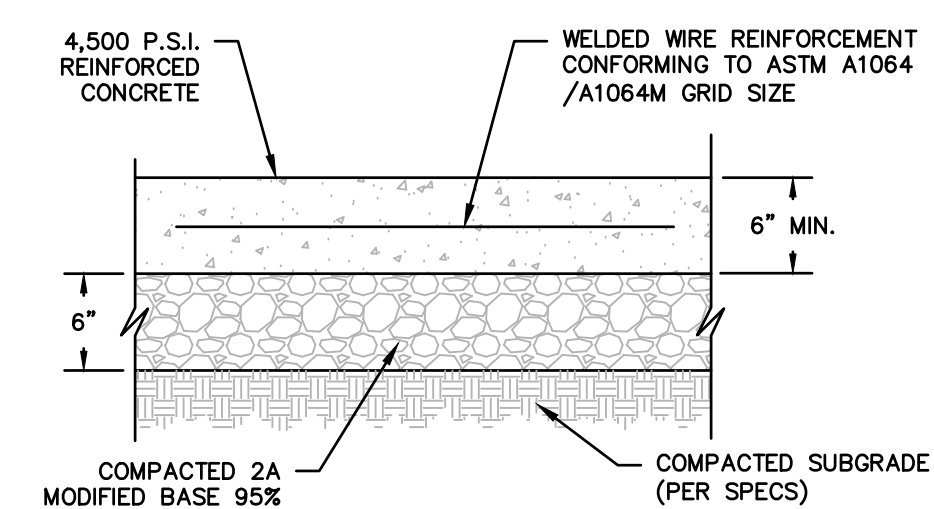


FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION

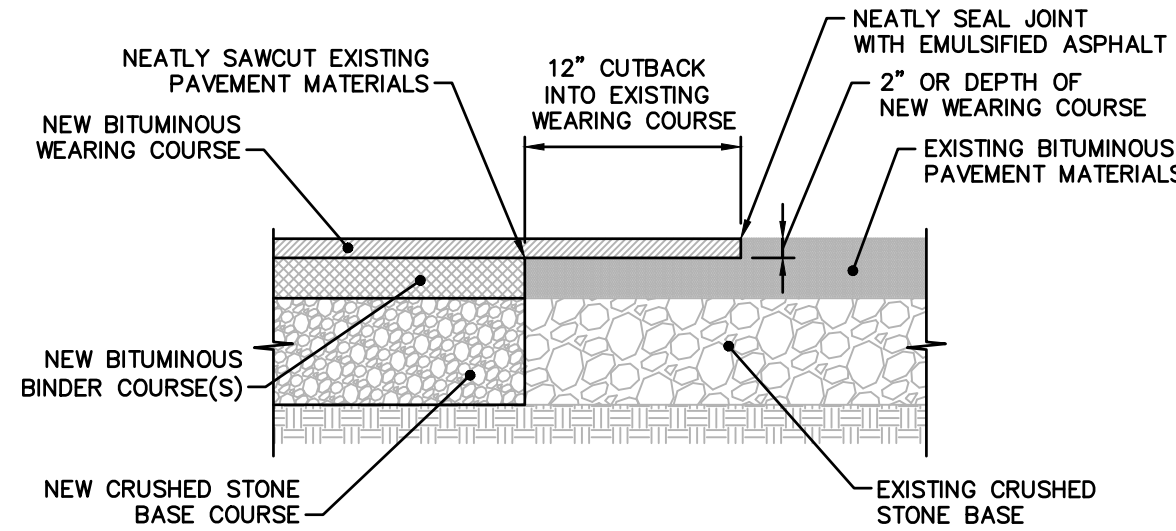


STANDARD DUTY BITUMINOUS PAVING DETAIL
N.T.S.

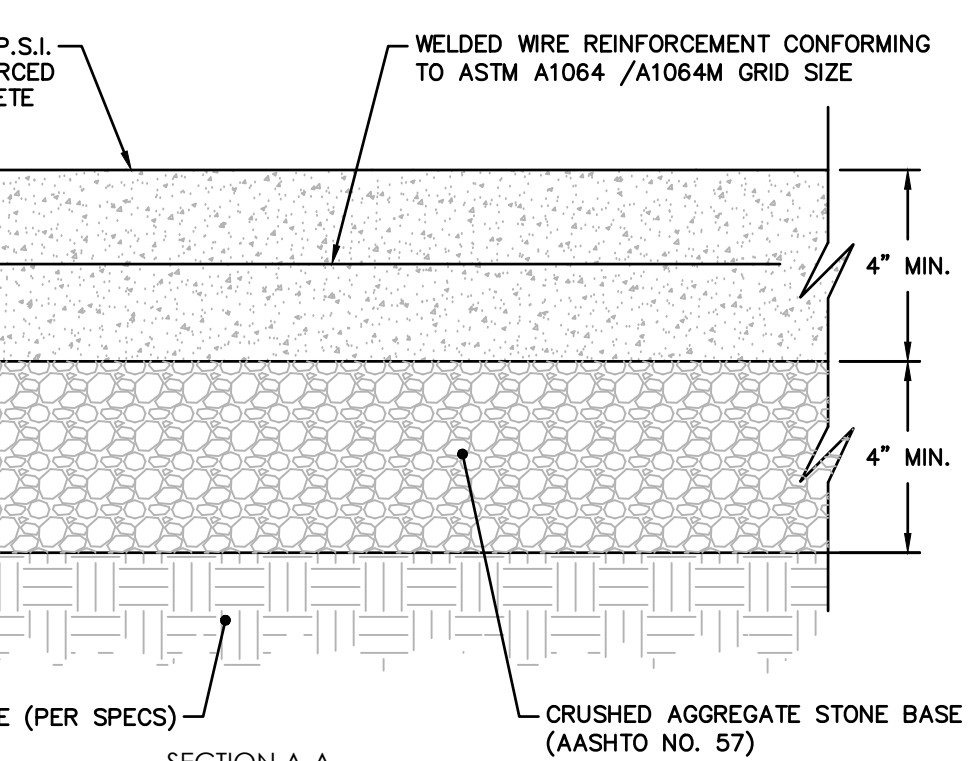
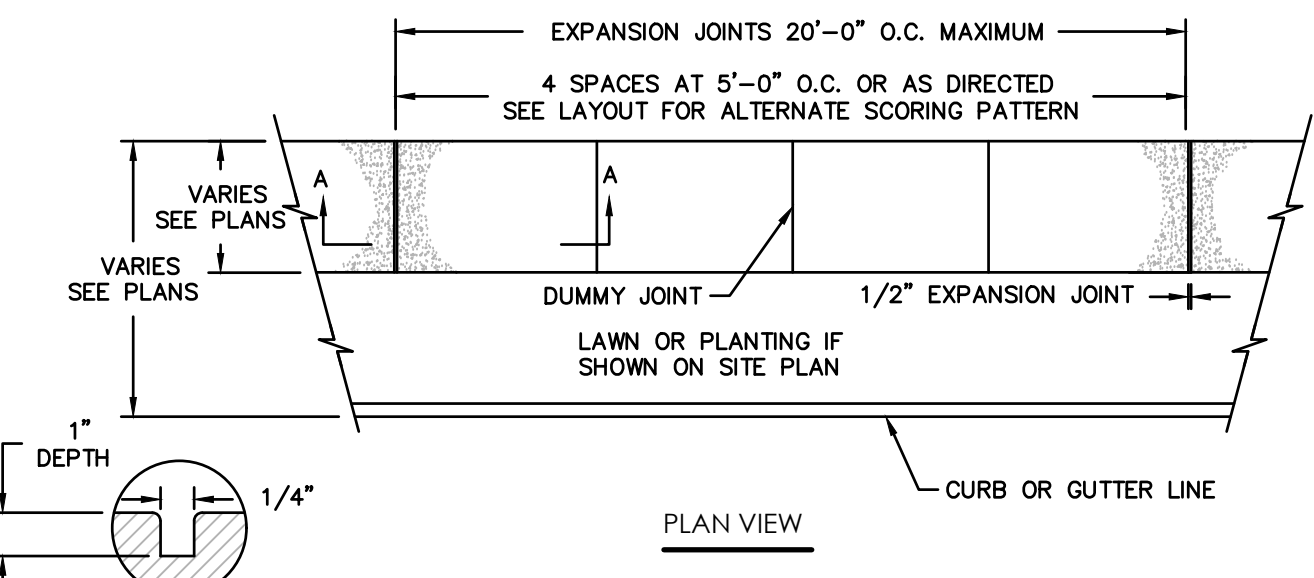
NOTES:
1. ALL PAVING MATERIALS AND INSTALLATION PROCEDURES SHALL CONFORM TO PENNDOT STANDARDS, PUB. 408.



DUMPSTER PAD CONCRETE PAVEMENT SECTION
N.T.S.

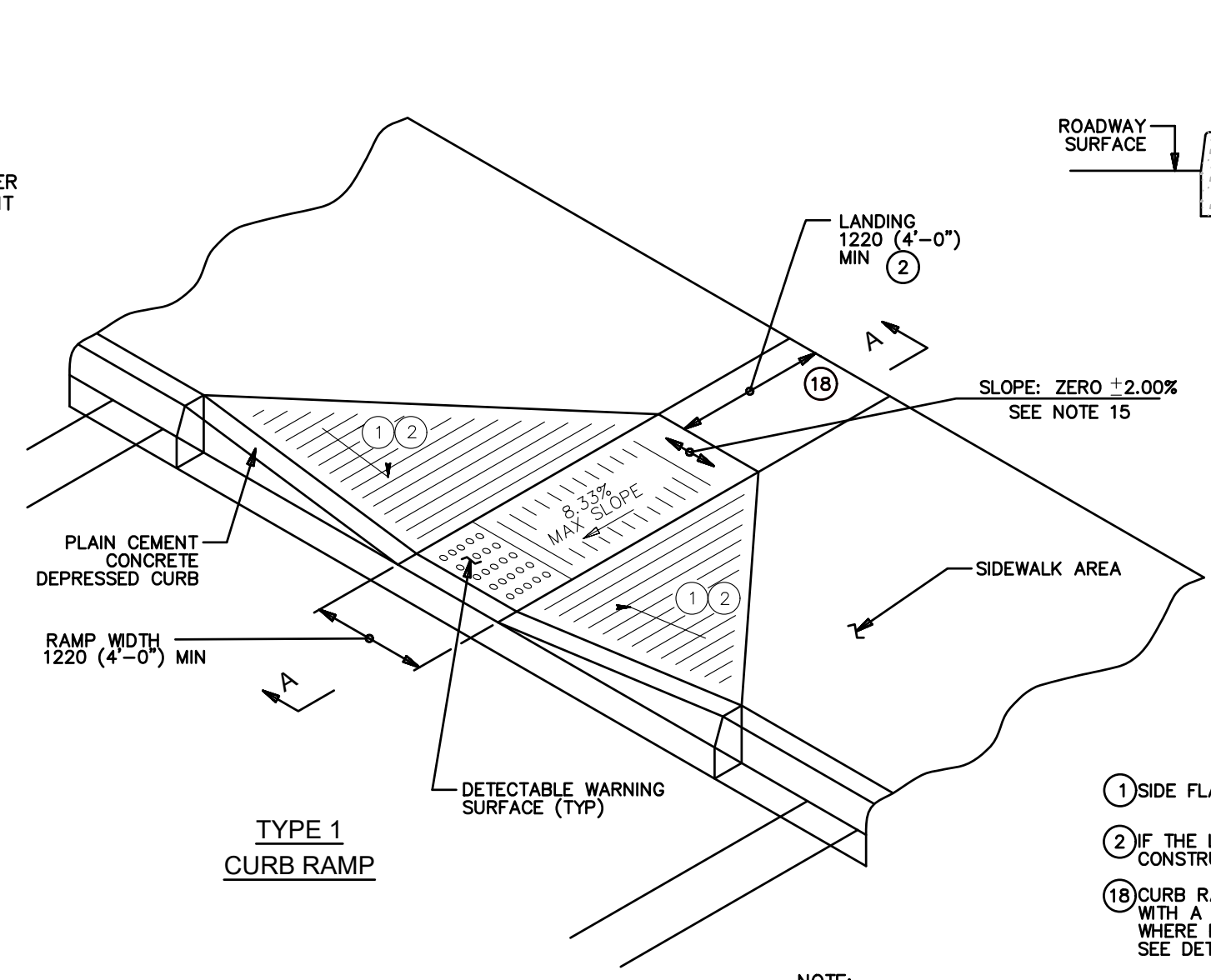


PAVEMENT JOINT WITH CUTBACK
N.T.S.



SIDEWALK DETAIL
N.T.S.

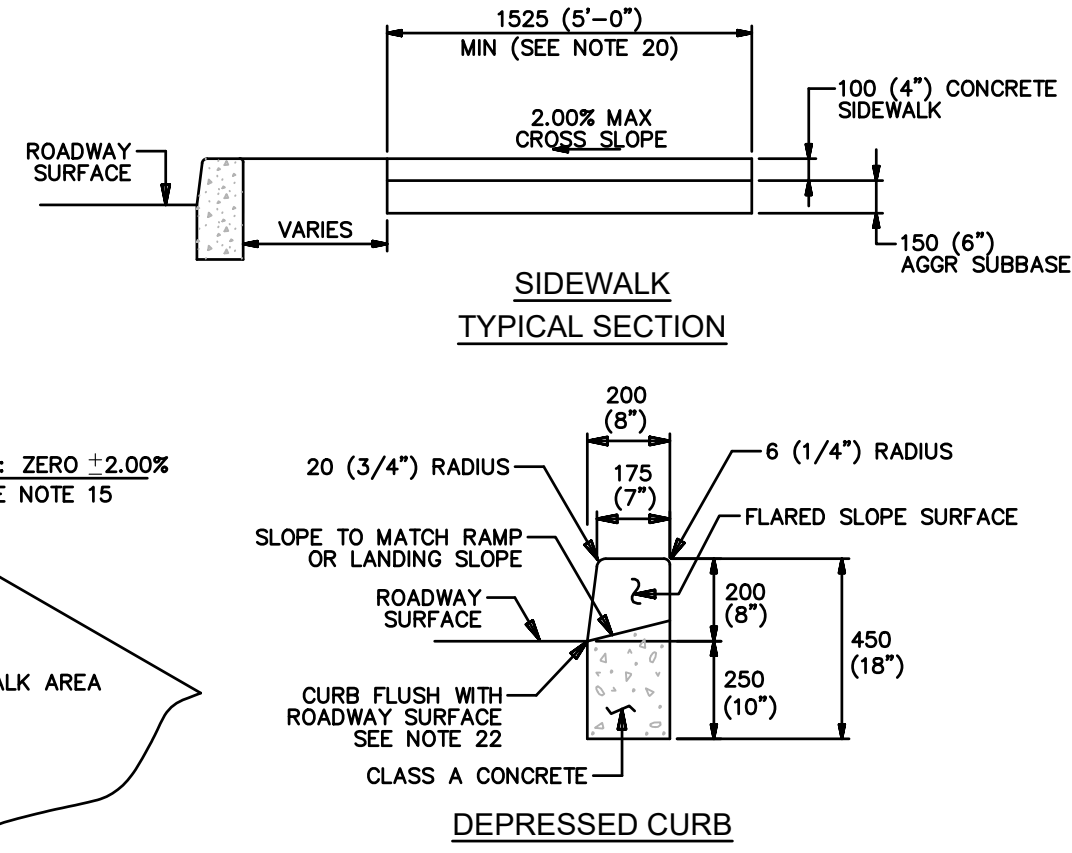
NOTES:
1. 1/4" WIDE x 1" DEEP DUMMY JOINTS SCORED AT 5'-0" INTERVALS.
2. CONSTRUCTION EXPANSION JOINTS, 1/2" IN THICKNESS, SPACED EVERY 20' AND WHERE SIDEWALK ABUTS CURB, WALL, BUILDING, OR ANY OTHER STRUCTURE.
3. SIDEWALK TO BE BROOM FINISHED.
4. SIDEWALK CROSS SLOPE SHALL BE 2% MAXIMUM. SEE PLAN SHEET GD-1 FOR SPOT ELEVATIONS.
5. SIDEWALK'S SHALL BE BOXED OUT AROUND LIGHT STANDARDS, FIRE HYDRANTS, ETC., WITH PREMOULDED EXPANSION JOINT, 1/2" IN THICKNESS.



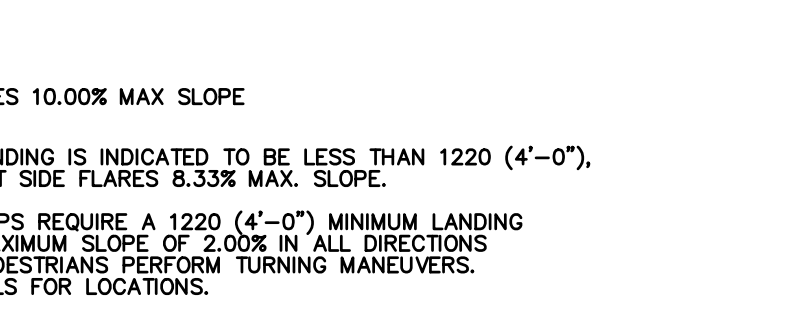
TYPE 1 CURB RAMP
N.T.S.

NOTE:
1. THE CONSTRUCTION OF ALL CURB RAMP SHALL BE IN COMPLIANCE WITH ICC A 117.1.

TYPE 1 CURB RAMP
N.T.S.

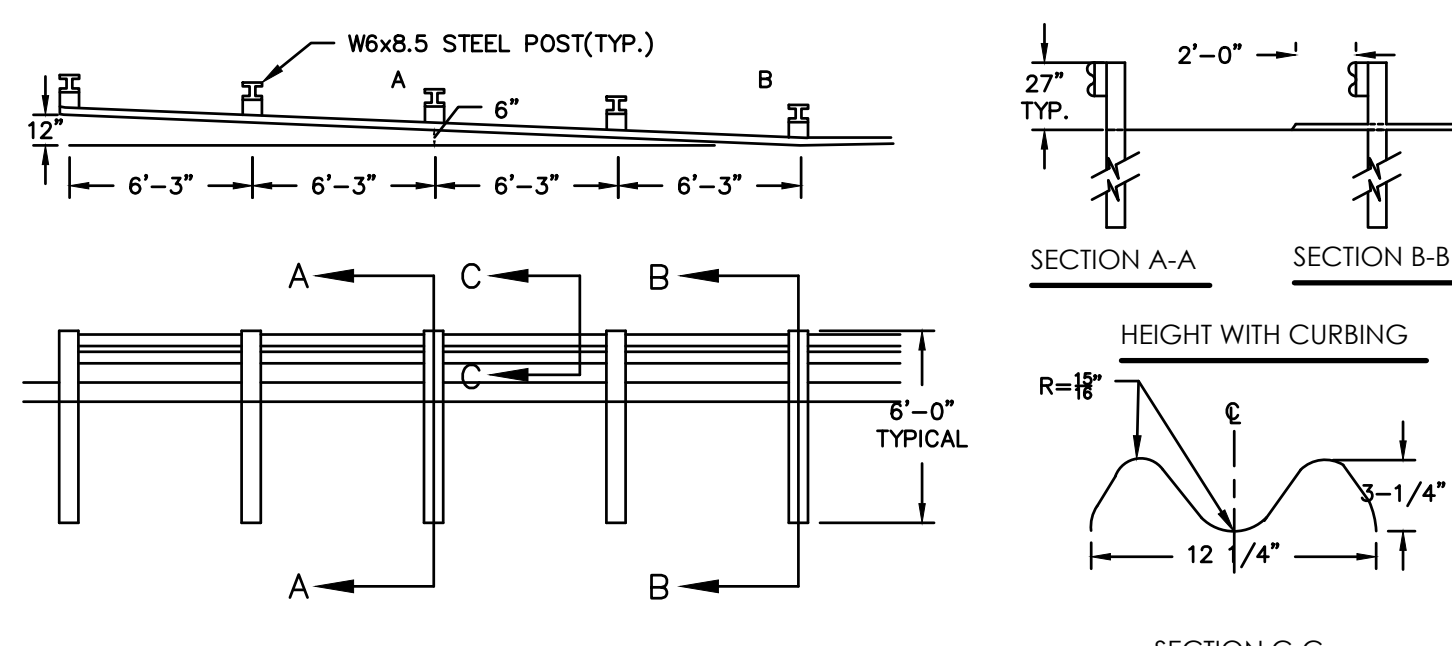


SIDEWALK TYPICAL SECTION



DEPRESSED CURB

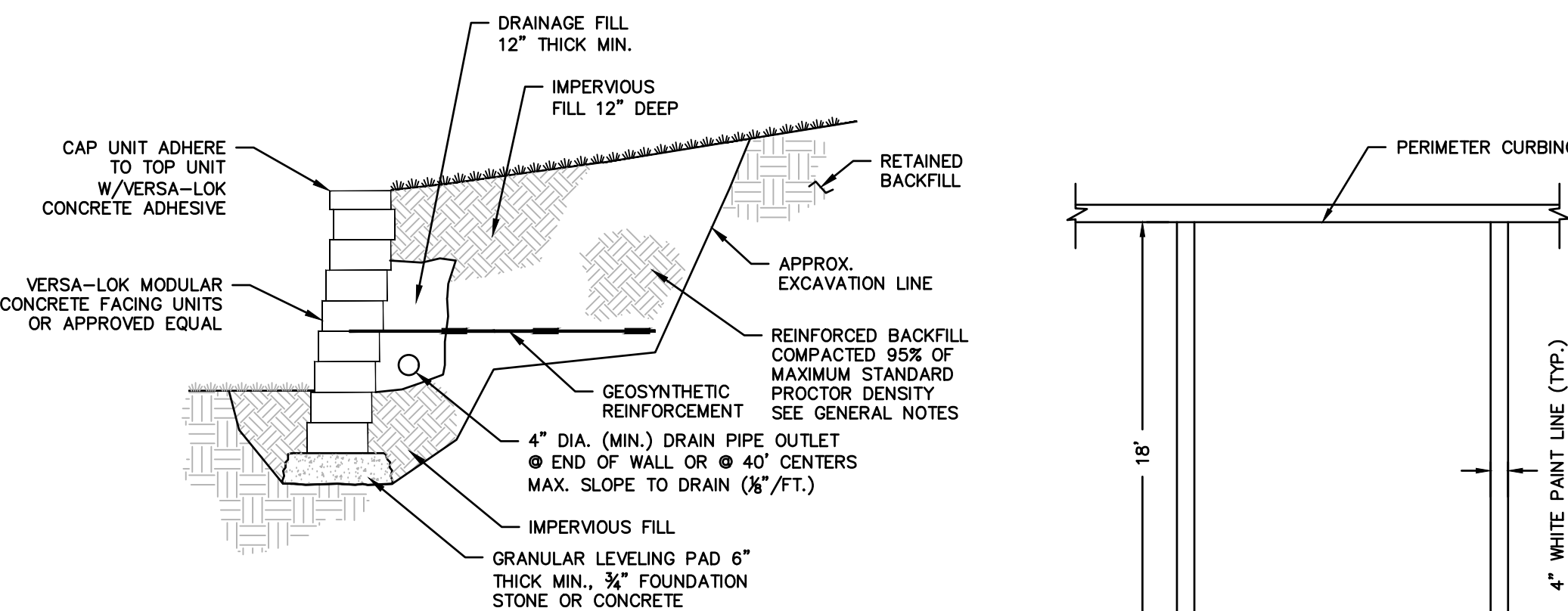
NOTES:
1. SIDE FLARES 10.00% MAX SLOPE.
2. IF THE LANDING IS INDICATED TO BE LESS THAN 1220 (4'-0"), CONSTRUCT SIDE FLARES 8.33% MAX. SLOPE.
3. CURB RAMP REQUIRE A 1220 (4'-0") MINIMUM LANDING WITH A MAXIMUM SLOPE OF 2.00% IN ALL DIRECTIONS WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS.



METAL BEAM GUIDE RAIL PENNDOT TYPE 2-S STEEL
N.T.S.

NOTE:
GUIDE RAIL PER PENNDOT RC_52M MARCH 30, 2006, REFER TO CURRENT RC-52M FOR ADDITIONAL DETAILS OF PENNDOT TYPE 2 STEEL STRONG POST AND END TERMINALS.

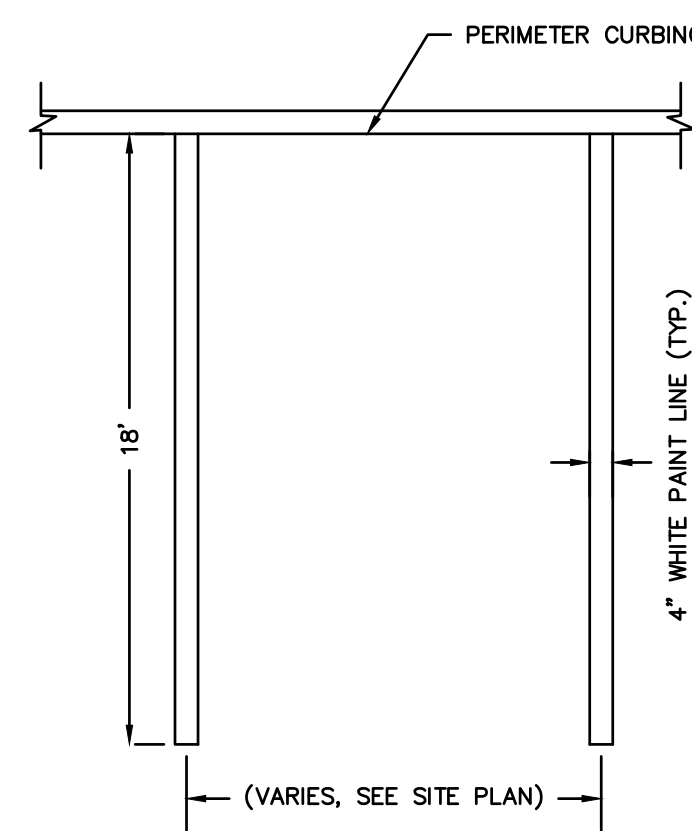
METAL BEAM GUIDE RAIL PENNDOT TYPE 2-S STEEL
N.T.S.



TYPICAL SECTION SEGMENTAL RETAINING WALL
N.T.S.

NOTES:
1. CONTRACTOR SHALL SUPPLY DESIGN SHOP DRAWINGS AND ELEVATION FOR ALL WALLS AS SHOWN ON PLANS. SHOP DRAWINGS SHALL BE SIGNED BY A PENNSYLVANIA PROFESSIONAL ENGINEER.
2. SOME WALL AREAS MAY REQUIRE DYNAMIC COMPACTION TO THE SUBGRADE PRIOR TO CONSTRUCTION. (COORDINATE W/GEOTECHNICAL ENGINEER FOR LOCATION AND SPECIFIC REQUIREMENTS)

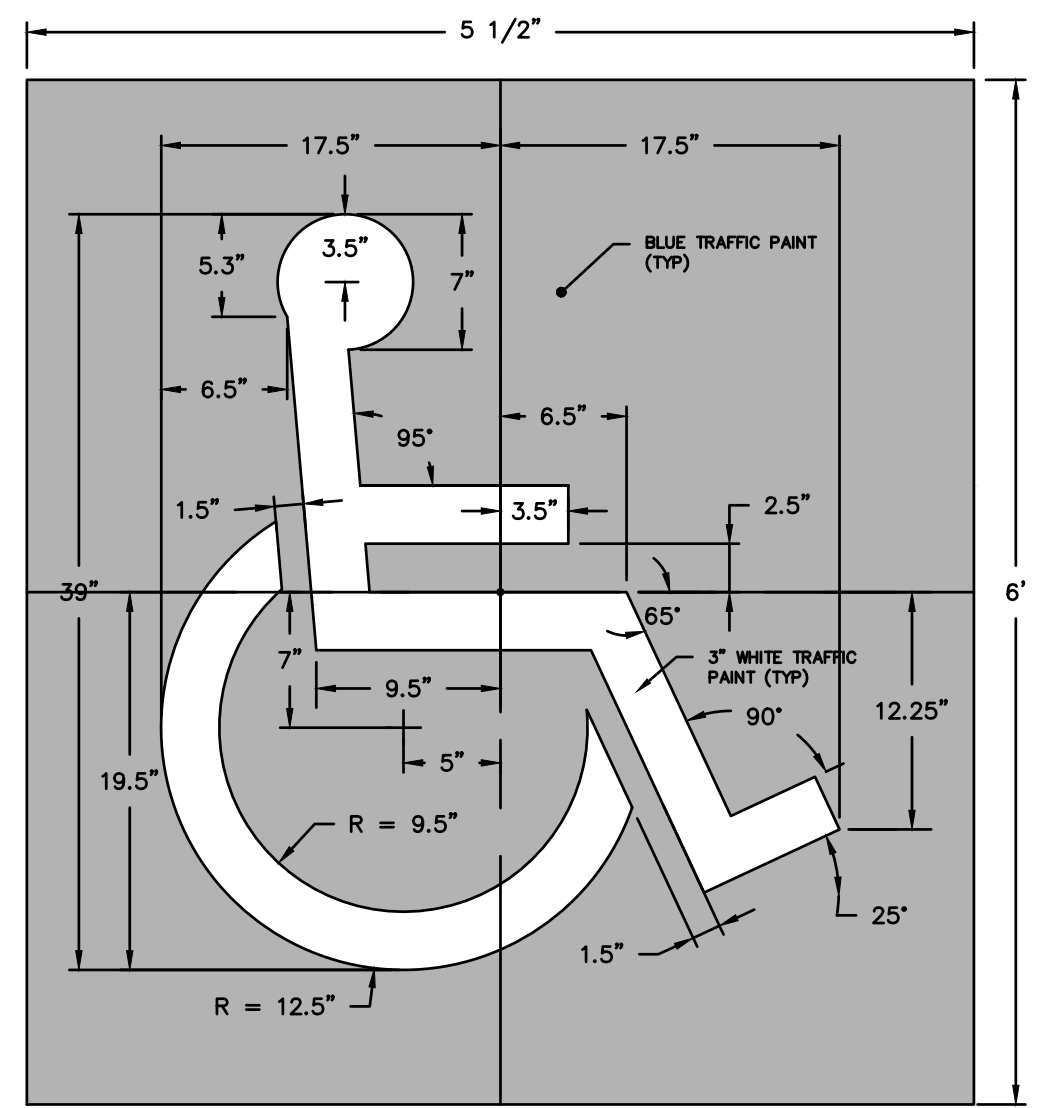
TYPICAL SECTION SEGMENTAL RETAINING WALL
N.T.S.



PARKING STALL DETAIL
N.T.S.

NOTES:
1. PROVIDE TWO COATS OF PAINT ON ALL SURFACES.
2. SEE PLAN FOR ACTUAL SPACE LOCATION AND DIMENSIONS.

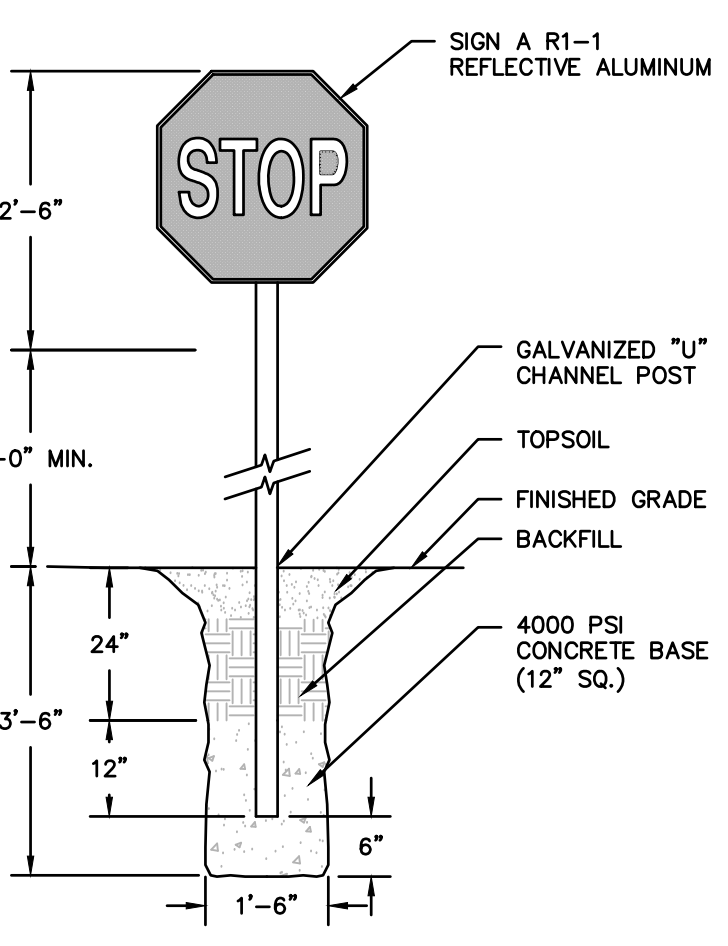
PARKING STALL DETAIL
N.T.S.



ACCESSIBLE SYMBOL
N.T.S.

SEE SITE PLAN FOR LOCATIONS

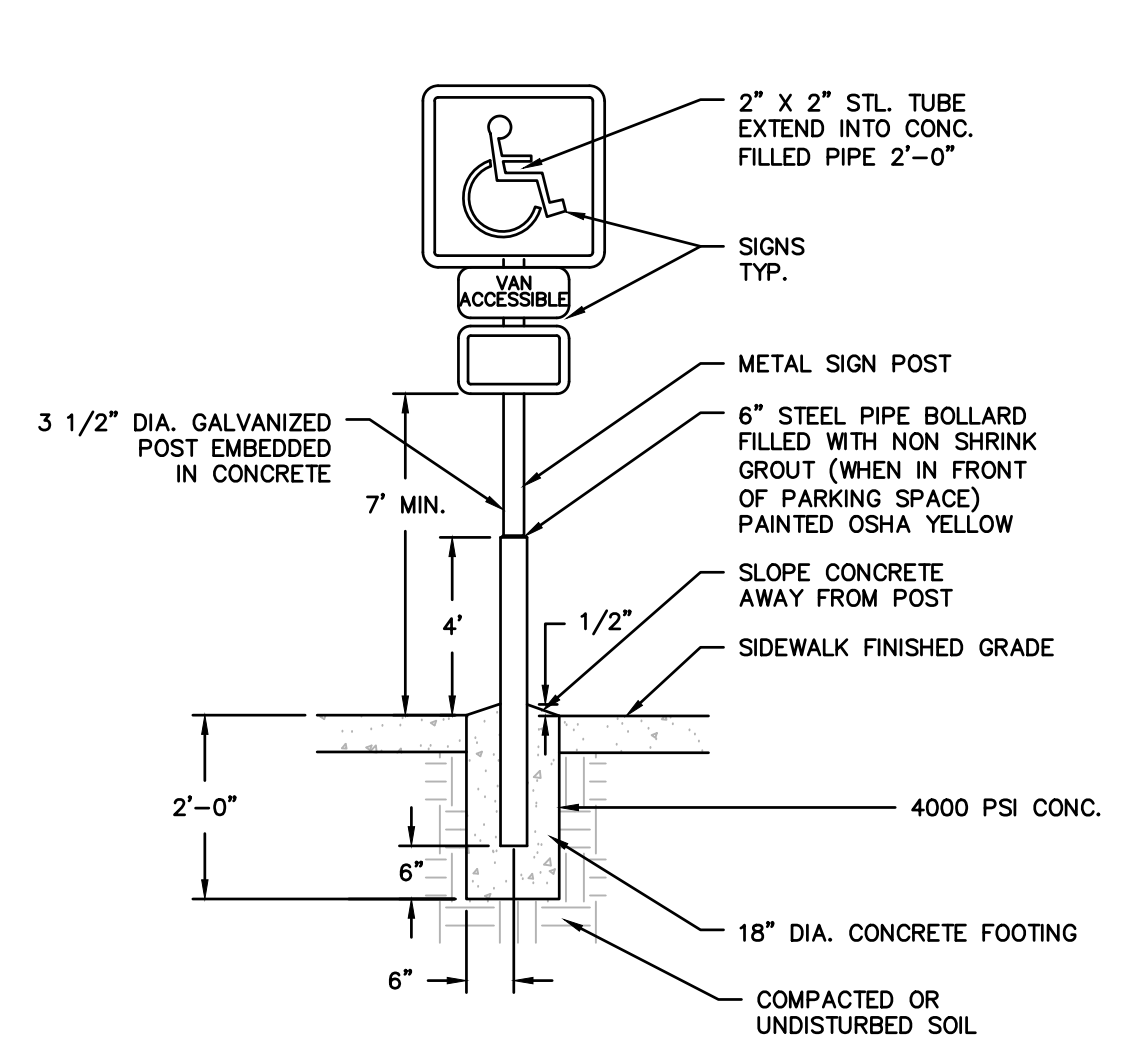
ACCESSIBLE SYMBOL
N.T.S.



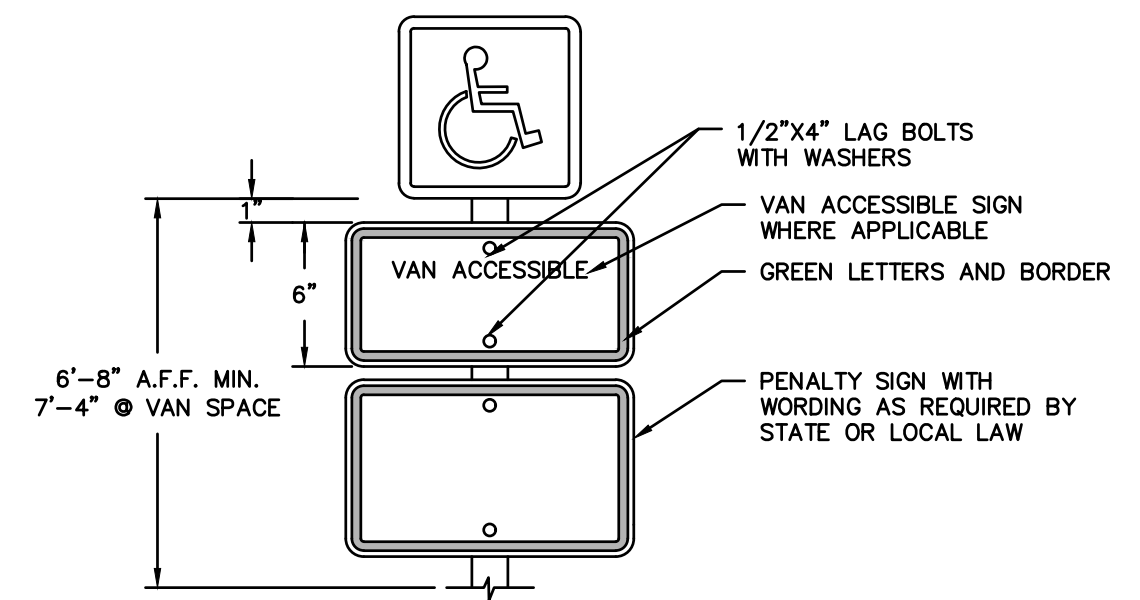
STOP SIGN DETAIL
N.T.S.

NOTES:
1. CONSTRUCT SIGN IN ACCORDANCE WITH PENNDOT SPECIFICATIONS.

STOP SIGN DETAIL
N.T.S.

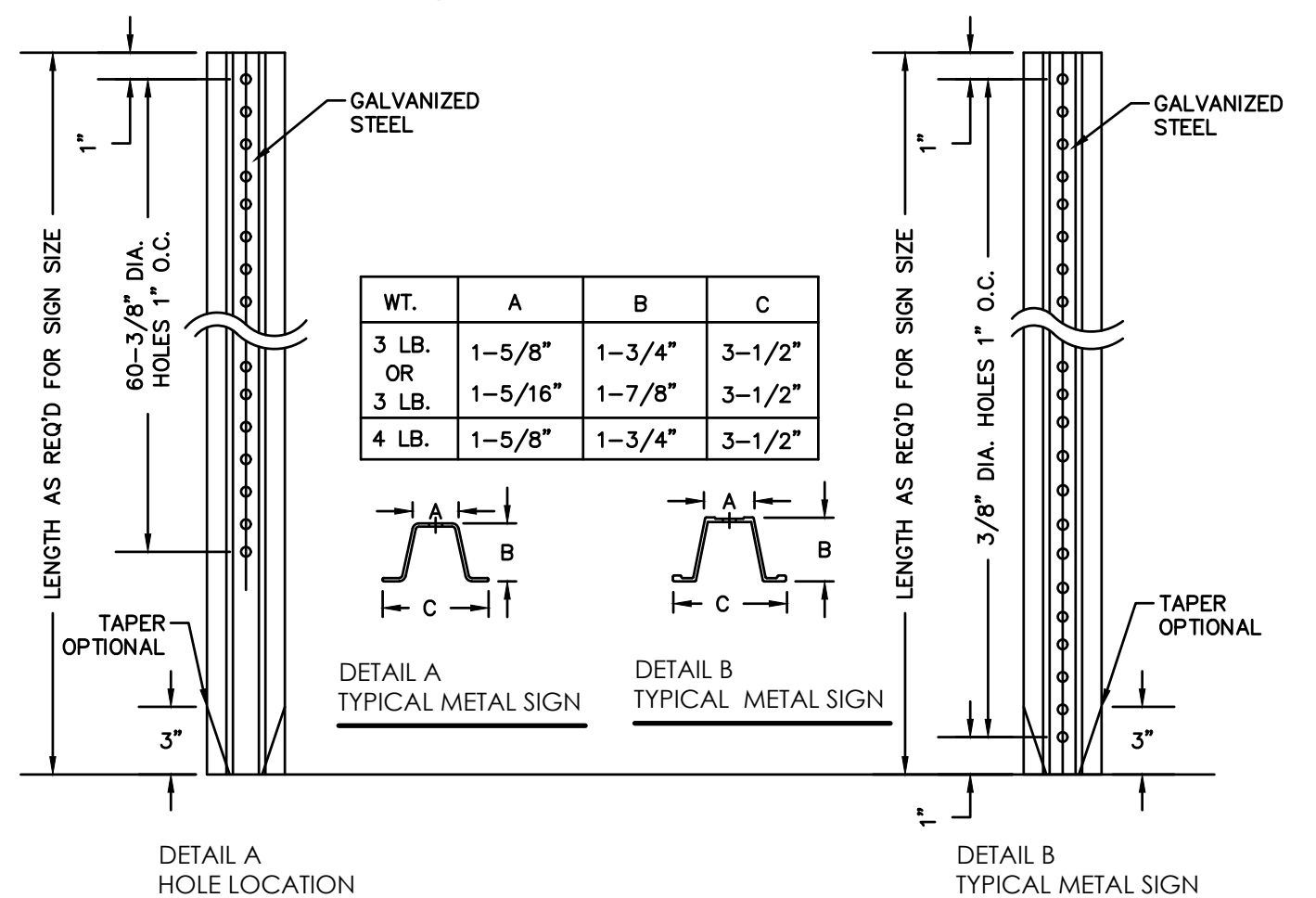


6" CONCRETE FILLED STEEL PIPE SIGN POST
N.T.S.



TYPICAL ACCESSIBLE SIGN
N.T.S.

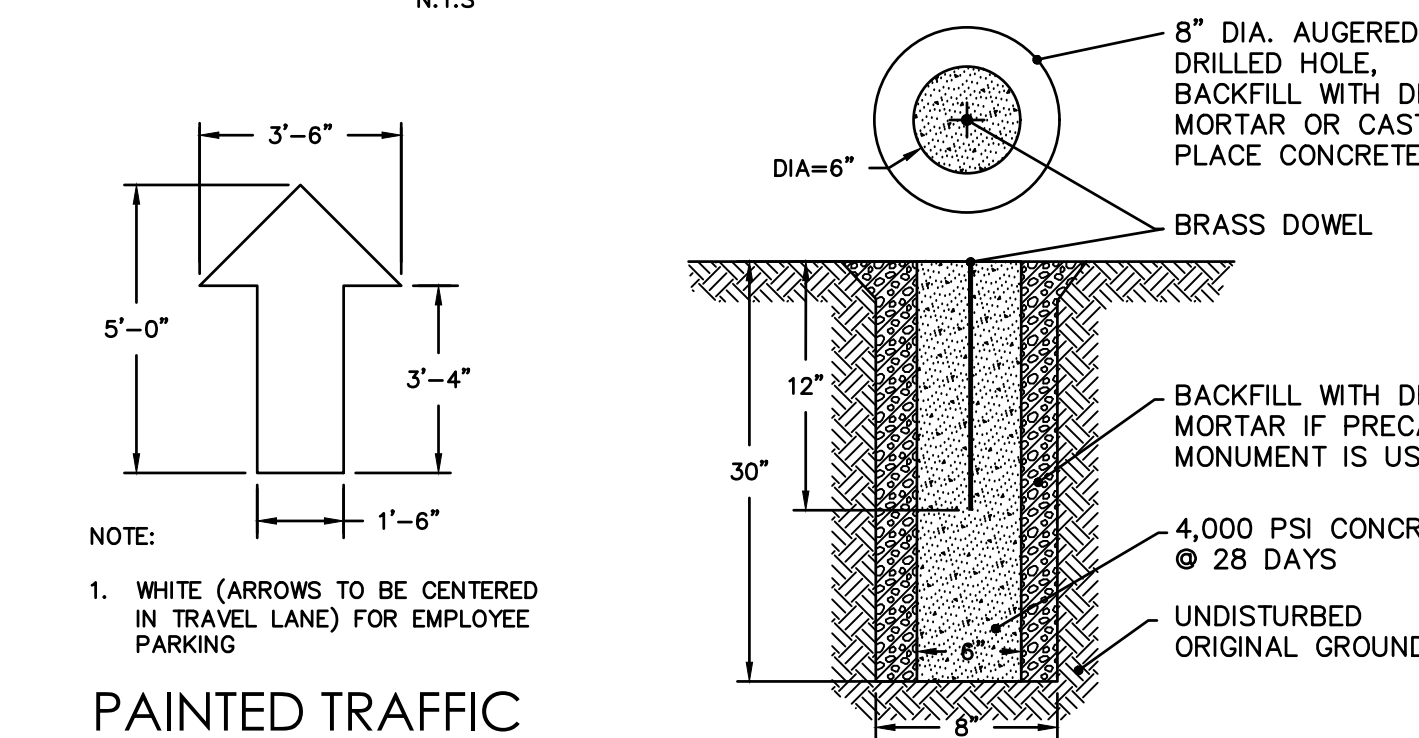
TYPICAL ACCESSIBLE SIGN
N.T.S.



TYPICAL METAL SIGN POST
N.T.S.

NOTES:
1. STEEL FOR POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499-81 GRADE 60 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1-76 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT OF 30 LBS OR GREATER PER LINEAR FOOT.
2. AFTER FABRICATION ALL STEEL POSTS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A-123.
3. SIGN MOUNTING HEIGHT TO BE PER MUTCD REQUIREMENTS.
4. ALL SIGN POSTS SHALL HAVE "BREAK AWAY" FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS". THE "BREAK AWAY" FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGN SHOWN ON THE PLANS AT 60 MPH WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

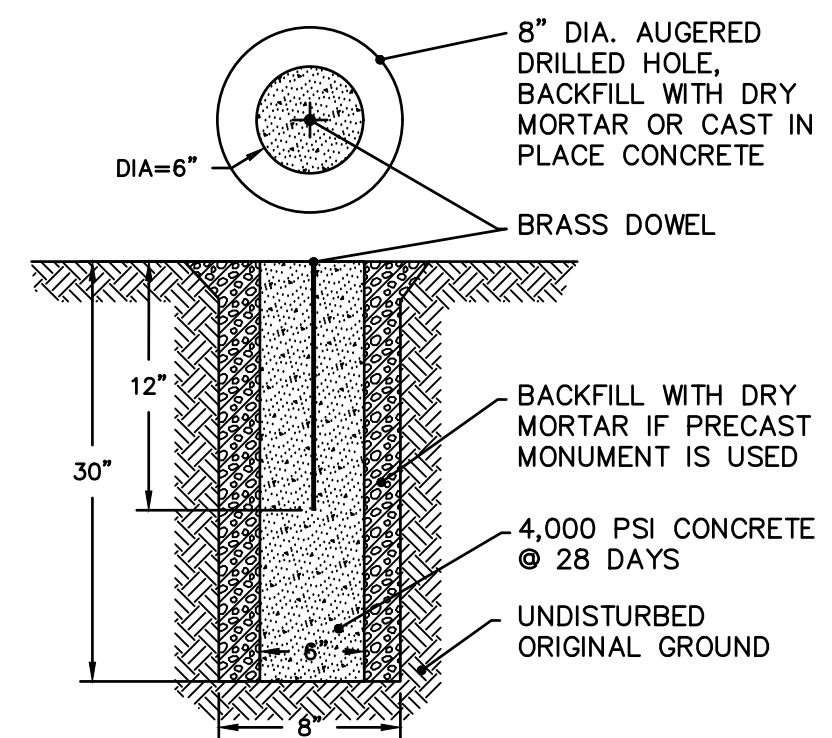
TYPICAL METAL SIGN POST
N.T.S.



PAINTED TRAFFIC ARROW DETAIL
N.T.S.

NOTE:
1. WHITE (ARROWS) TO BE CENTERED IN TRAVEL LANE) FOR EMPLOYEE PARKING

PAINTED TRAFFIC ARROW DETAIL
N.T.S.



CONCRETE MONUMENT DETAIL
N.T.S.

NOTE:
FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION

CONCRETE MONUMENT DETAIL
N.T.S.

DATE: 08/06/2021
PROJECT NO: 2101256
DRAWN BY: JRJ
CHECKED BY: AJB
REVISIONS:
1 PER TWP COMMENTS 2021-08-13
2 PER TWP COMMENTS 2021-10-08
3 PER TWP COMMENTS 2021-12-03

TOMMY CAR WASH SYSTEM
3523 UNION DEPOSIT RD
HARRISBURG, PA

P2825

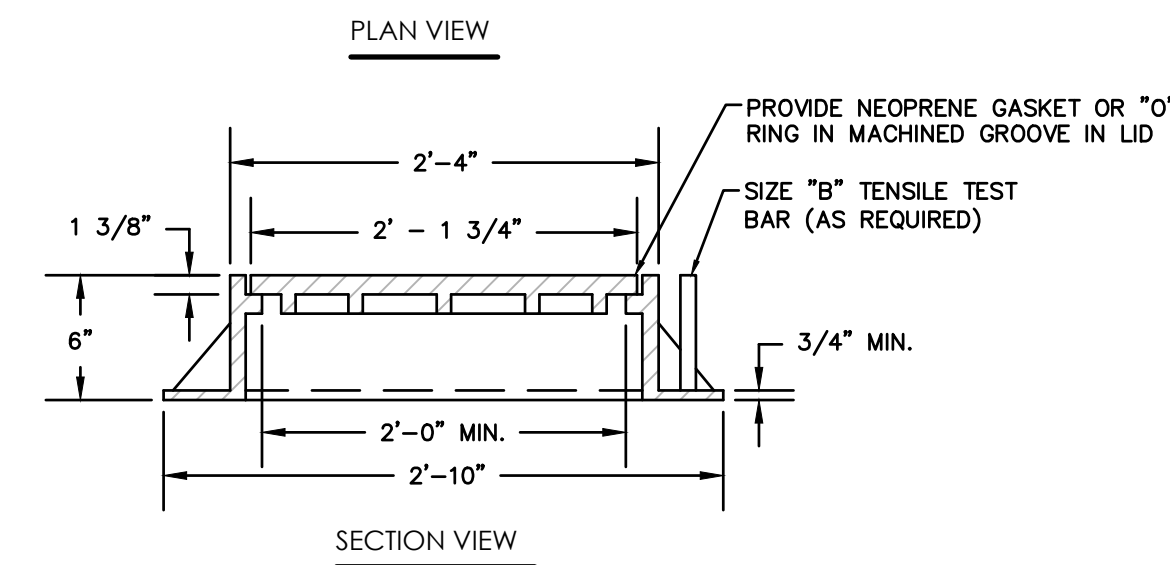
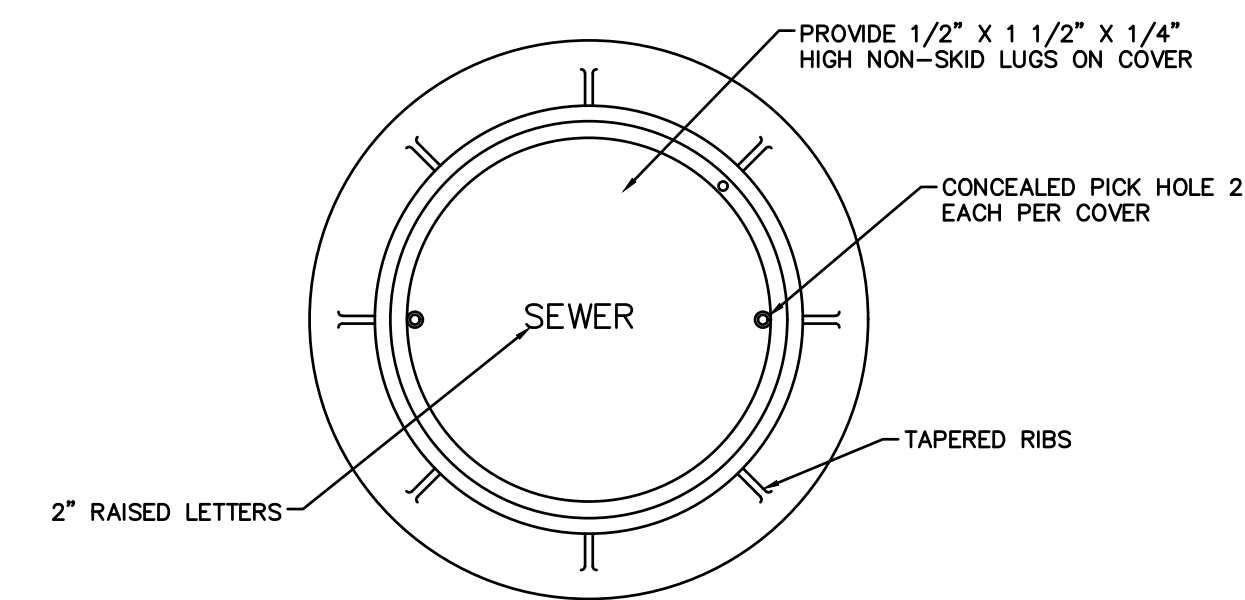
Architecture
Environmental
Land Surveying
B
Companies
2601 Market Place
Suite 350
Harrisburg, PA 17110
(717) 943-1665
(717) 651-9858 Fax
Project No. 2101256

CHRISTIANSON
COMPANIES
PH. (701) 281-9500
FAX (701) 281-9501
4609 33RD AVE. S.
SUITE 400
FARGO, ND 58104

RG
DESIGN
PH. (701) 499-0212
FAX (701) 281-9501

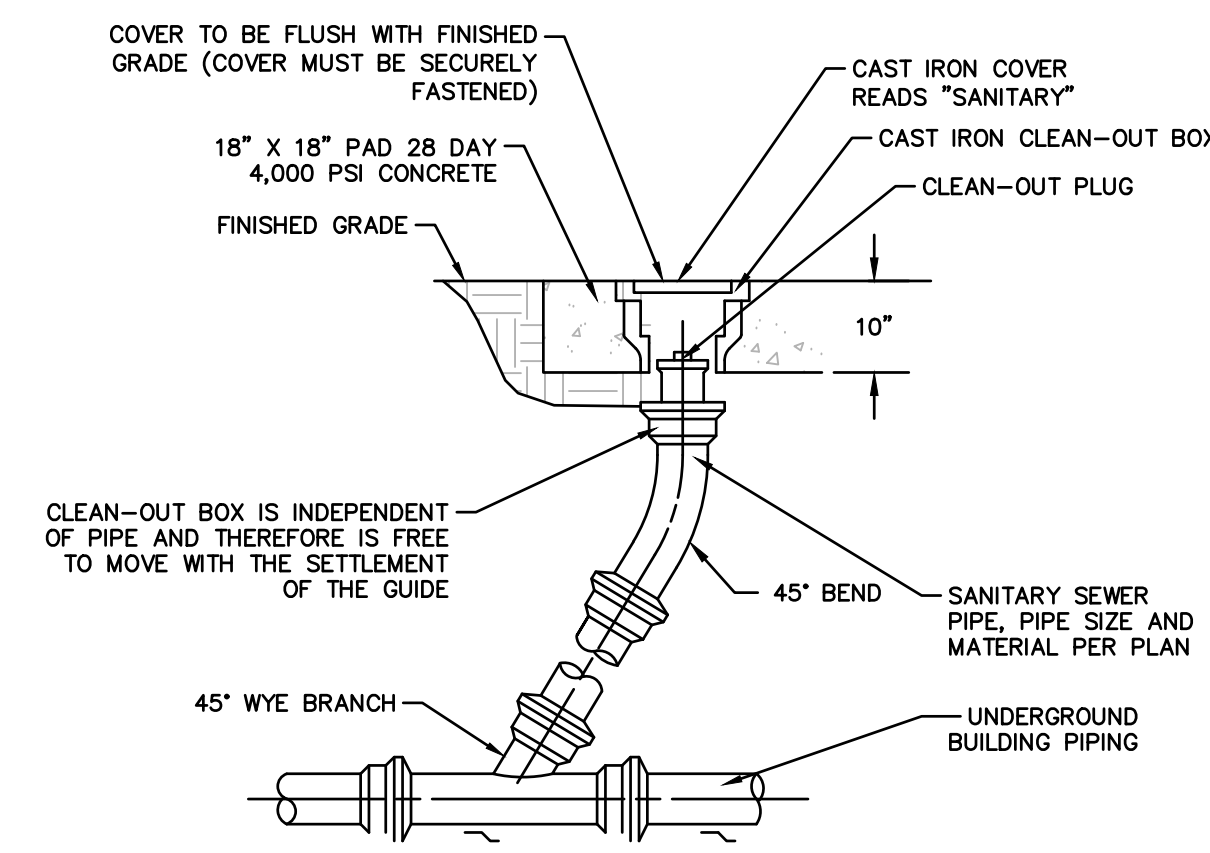
SHEET DESCRIPTION:
DETAIL SHEET

Sheet
DN-3
No. 11 of 14



STANDARD MANHOLE FRAME AND COVER

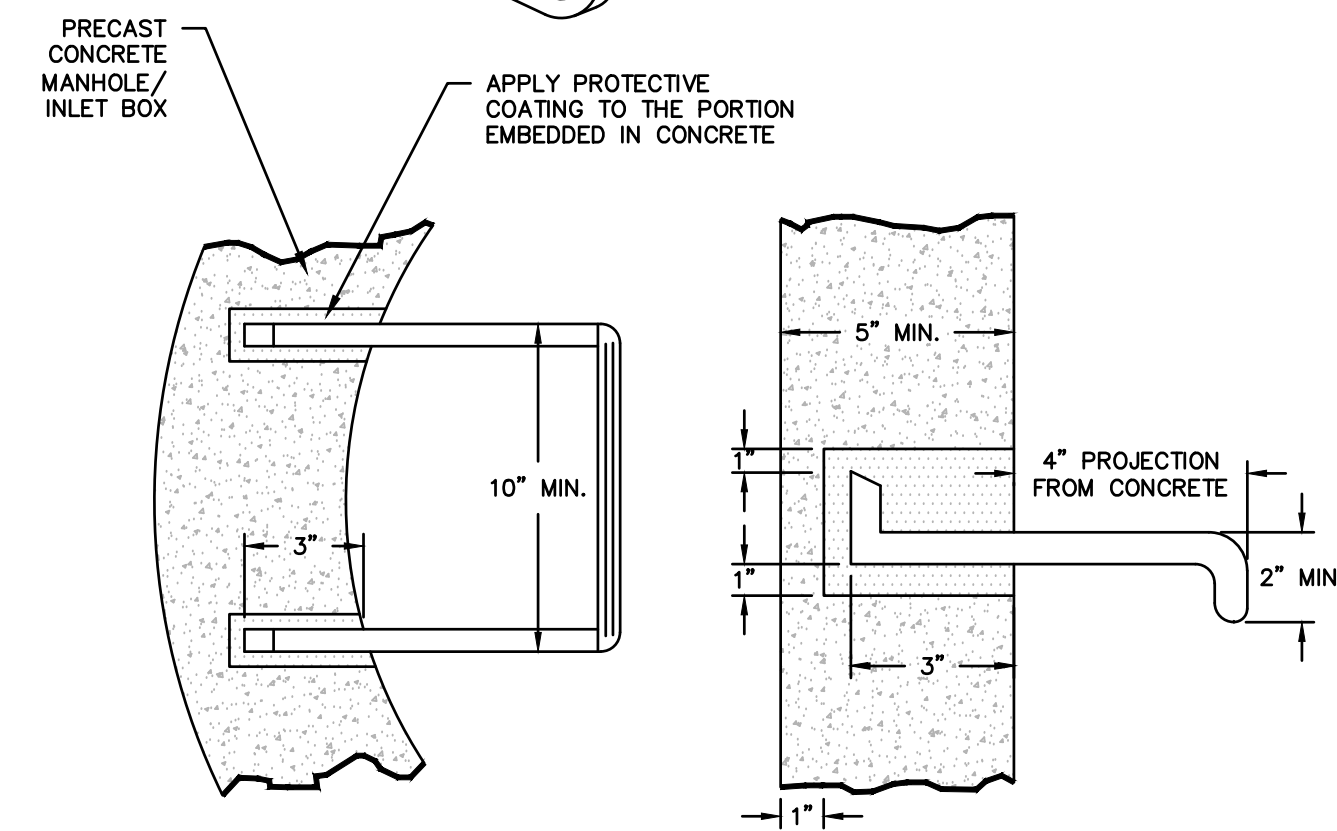
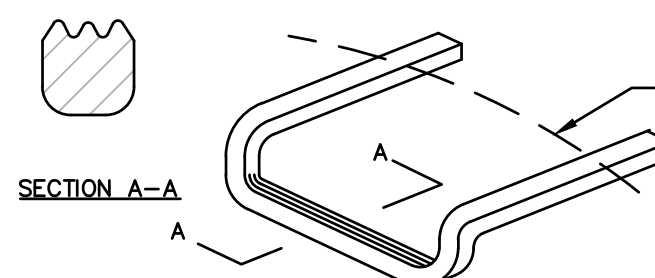
N.T.S.



- NOTES:
1. USE NON-SHEAR COUPLING TO MAKE CONNECTIONS TO DISSIMILAR MATERIALS. MANUFACTURER NEENAH FOUNDRY R-1970-78 HEAVY DUTY OR APPROVED EQUAL. CONTACT 1-800-558-5075.
 2. SUBMIT SHOP DRAWINGS PRIOR TO CONSTRUCTION.

CLEANOUT DETAIL

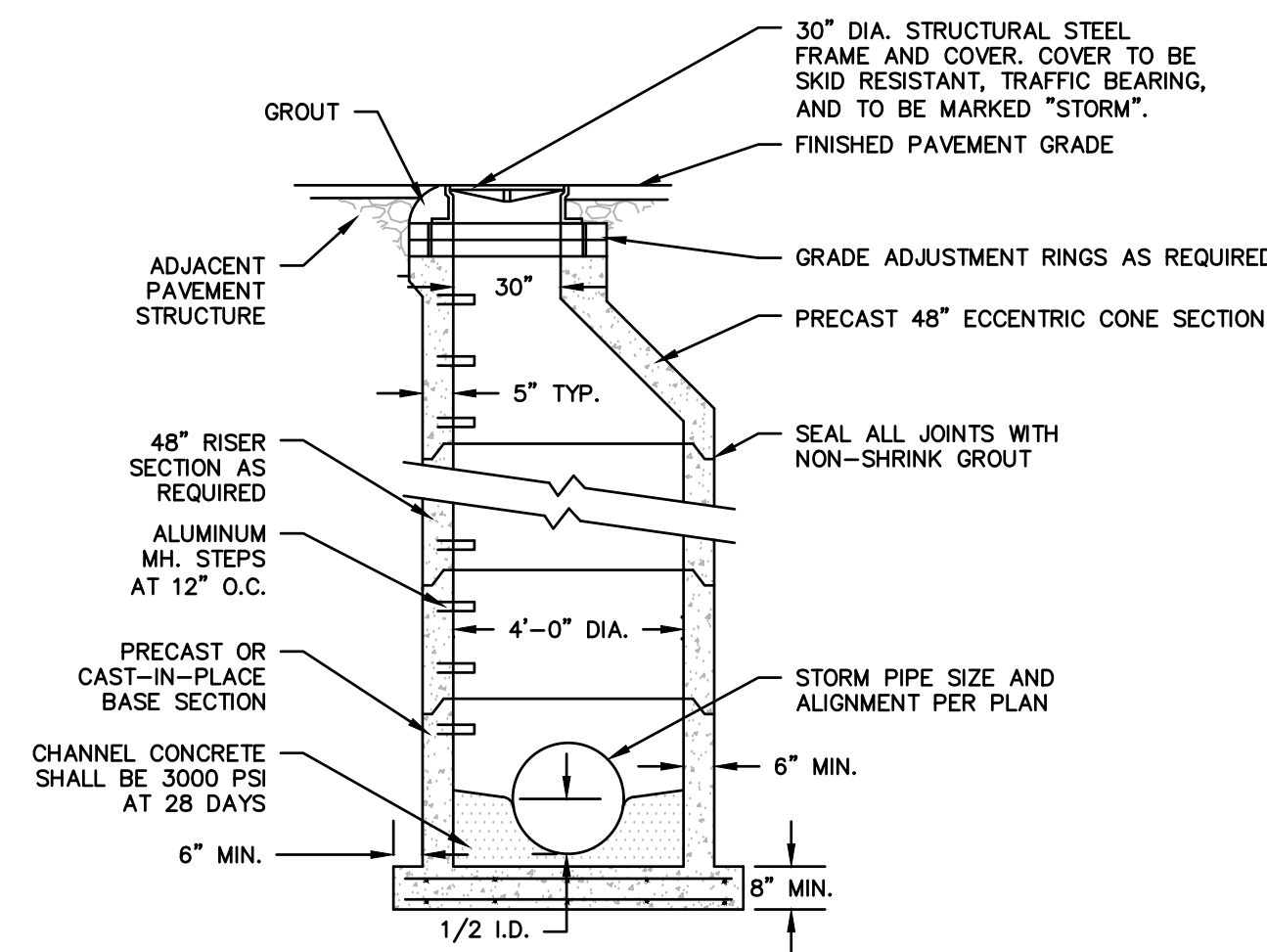
N.T.S.



- NOTES:
1. PROVIDE MANHOLE/INLET STEPS WHEN THE DEPTH BETWEEN THE FINISHED GRADE ELEVATION AND THE TOP OF BOTTOM SLAB ELEVATION IS GREATER THAN 5'-0". LOCATE THE TOP STEP 6" MINIMUM BELOW THE TOP OF THE INLET BOX.
 2. PRECAST MANHOLE STEPS - ALUMINUM ALLOY IN ACCORDANCE WITH PENNDOT SECTION 605.2 (C) AND RC-39M.
 3. STEPS INSTALLED BY THE PRECAST MANHOLE MANUFACTURER MUST EQUAL #2 ABOVE.

STORM STRUCTURE STEP DETAIL

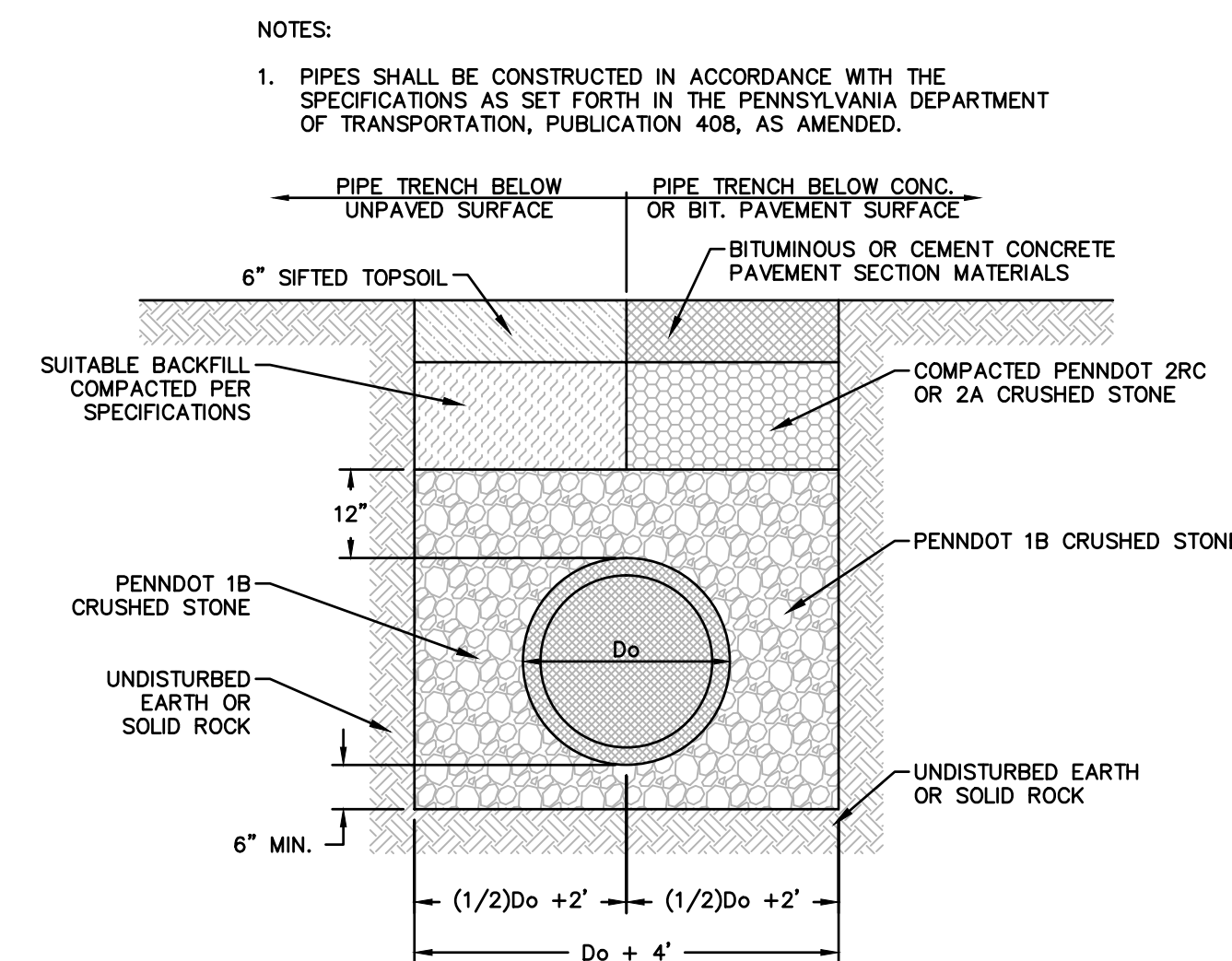
N.T.S.



- NOTE:
1. CONSTRUCT MANHOLE IN ACCORDANCE WITH PENNDOT PUBLICATION 72, RC-39 FOR PRECAST CONCRETE MANHOLES.
 2. ALL MATERIALS AND CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH PENNDOT PUBLICATIONS/408, LATEST EDITION, AND AS DETAILED IN PENNDOT PUBLICATION 72M, LATEST EDITION.

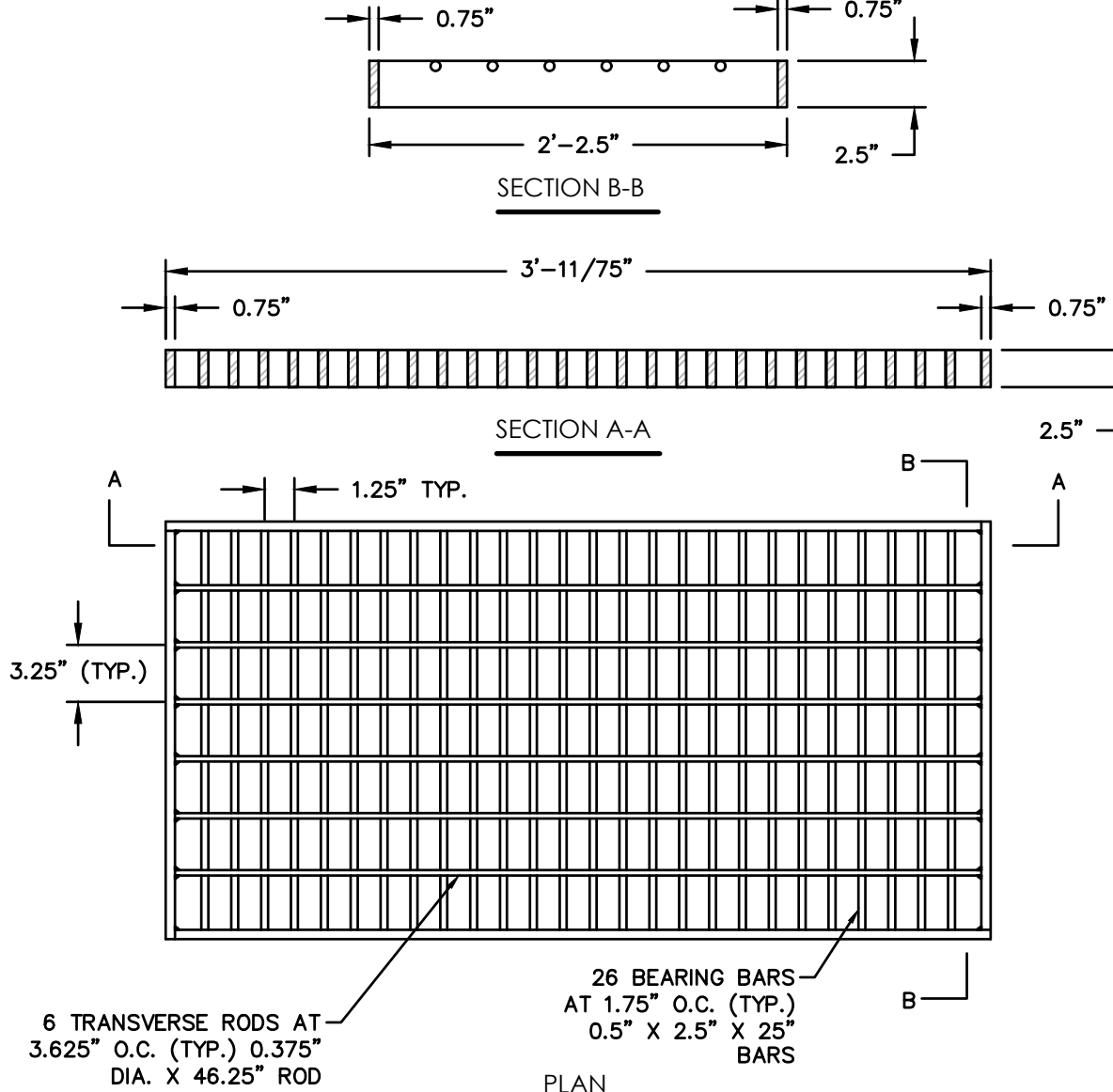
TYPICAL STORM SEWER MANHOLE

N.T.S.



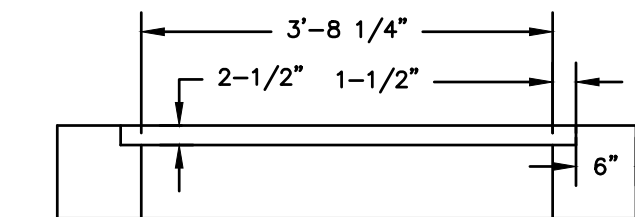
STORM PIPE TRENCH SECTION

N.T.S.

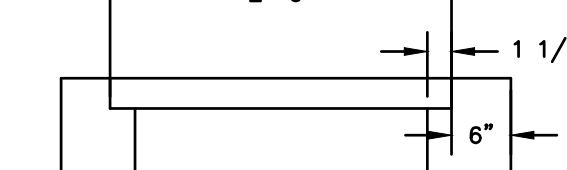


STRUCTURAL STEEL BICYCLE SAFE GRATE

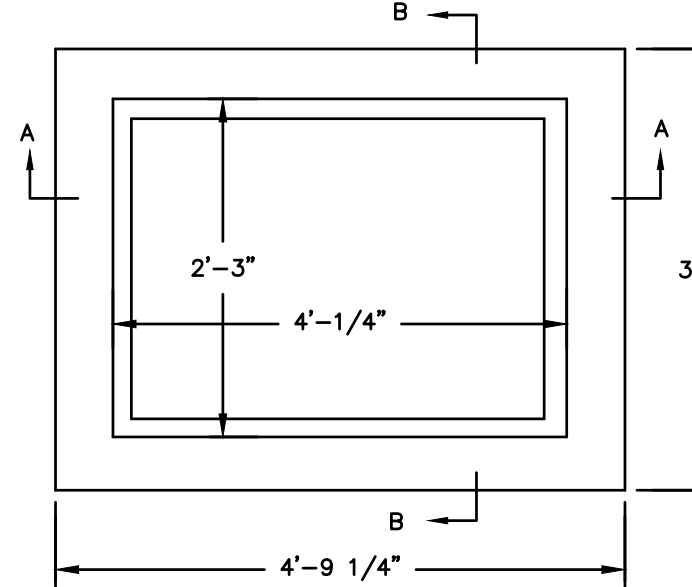
N.T.S.



SECTION A-A



SECTION B-B



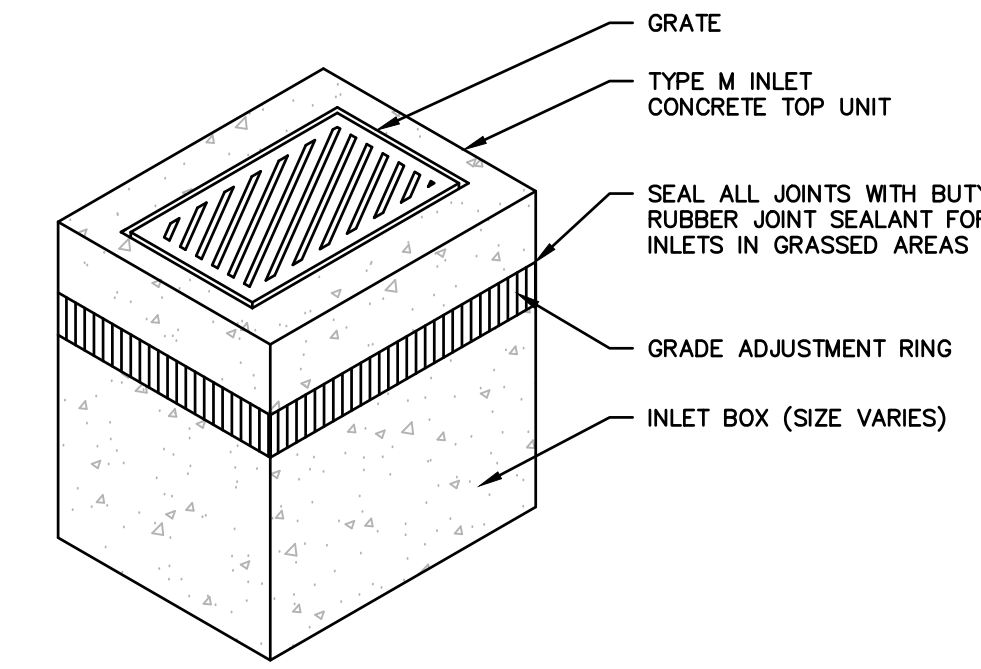
PLAN VIEW

NOTES:

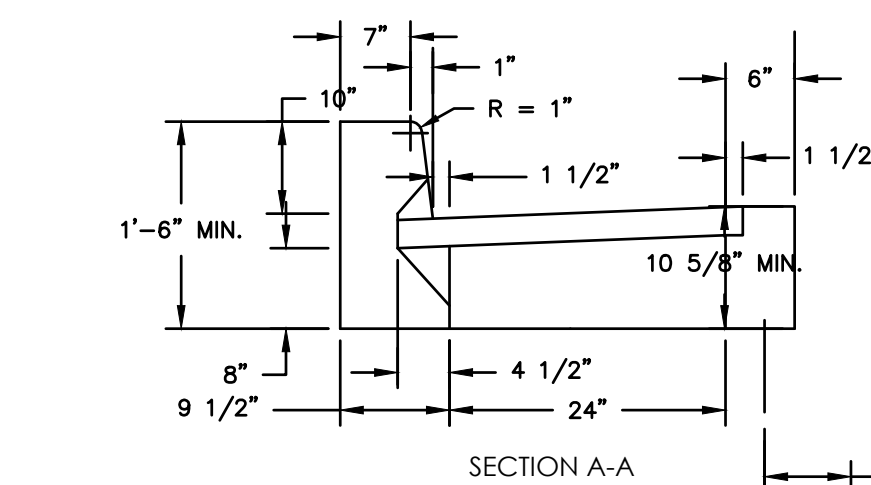
1. ALL MATERIALS AND CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH PENNDOT PUBLICATIONS/408, LATEST EDITION, AND AS DETAILED IN PENNDOT PUBLICATION 72M, LATEST EDITION AND CERTIFIED FOR H2O LOADING
2. PROVIDE BICYCLE SAFE GRATE

TYPE "M" INLET

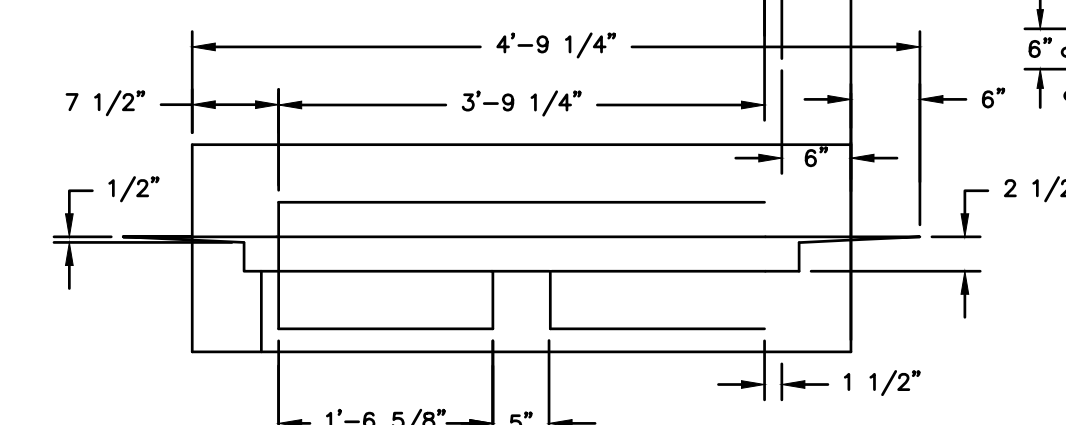
N.T.S.



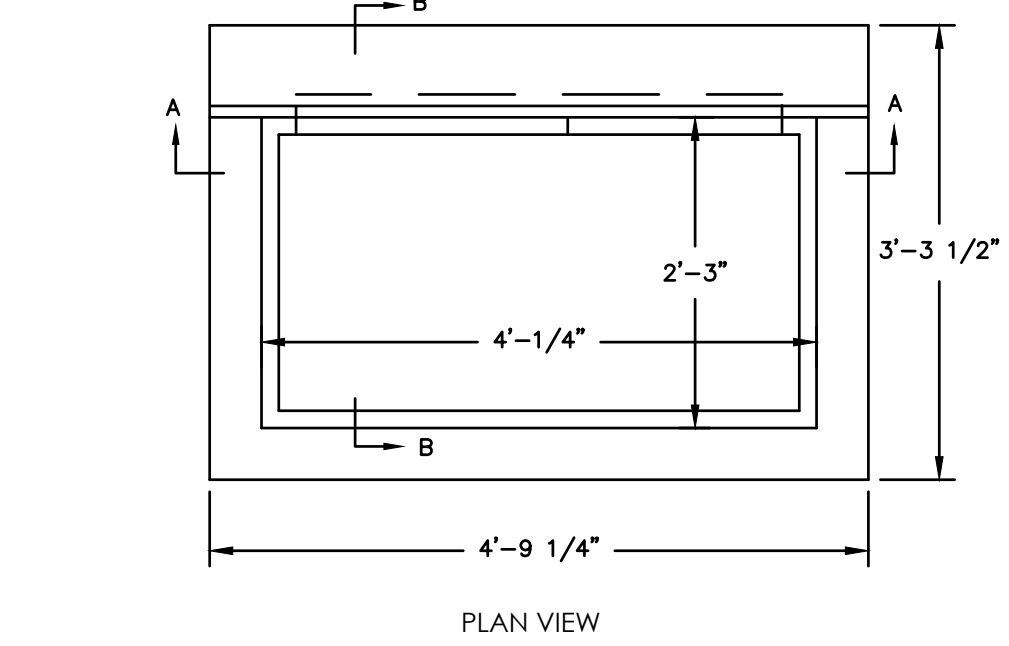
- NOTES:
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PENN DOT PUBLICATION 408, SECTION 605 AND STANDARDS FOR ROADWAY CONSTRUCTION, RC-45 AND RC-46 (PUB. 72M, LATEST EDITION). CONTRACTOR SHALL VERIFY INLET BOX SIZING BASED ON PIPE SIZES AND ALIGNMENT PRIOR TO ORDERING PRECAST STRUCTURES.
 2. ALL DRAINAGE STRUCTURES SHALL HAVE POURED-IN-PLACE CONCRETE CHANNEL BOTTOMS.
 3. ALL PENNDOT INLETS ARE TO BE PROVIDED WITH EITHER A PAINTED STENCILED LOGO ON THE ROADWAY OR ANOTHER ACCEPTABLE MARKING APPROVED BY THE GOVERNING AGENCY.
 4. ALL FRAMES, CONCRETE TOP UNITS, AND GRADE ADJUSTMENT RINGS SHALL BE SET IN A BED OF FULL MORTAR ACCORDING TO PUBLICATION 408
 5. PROVIDE WEEP HOLES COVERED WITH GEOTEXTILE FABRIC AND PLACED AT THE APPROPRIATE ELEVATION TO COMPLETELY DRAIN THE SUBGRADE PRIOR TO PLACING THE BASE COURSE OF PAVEMENT.



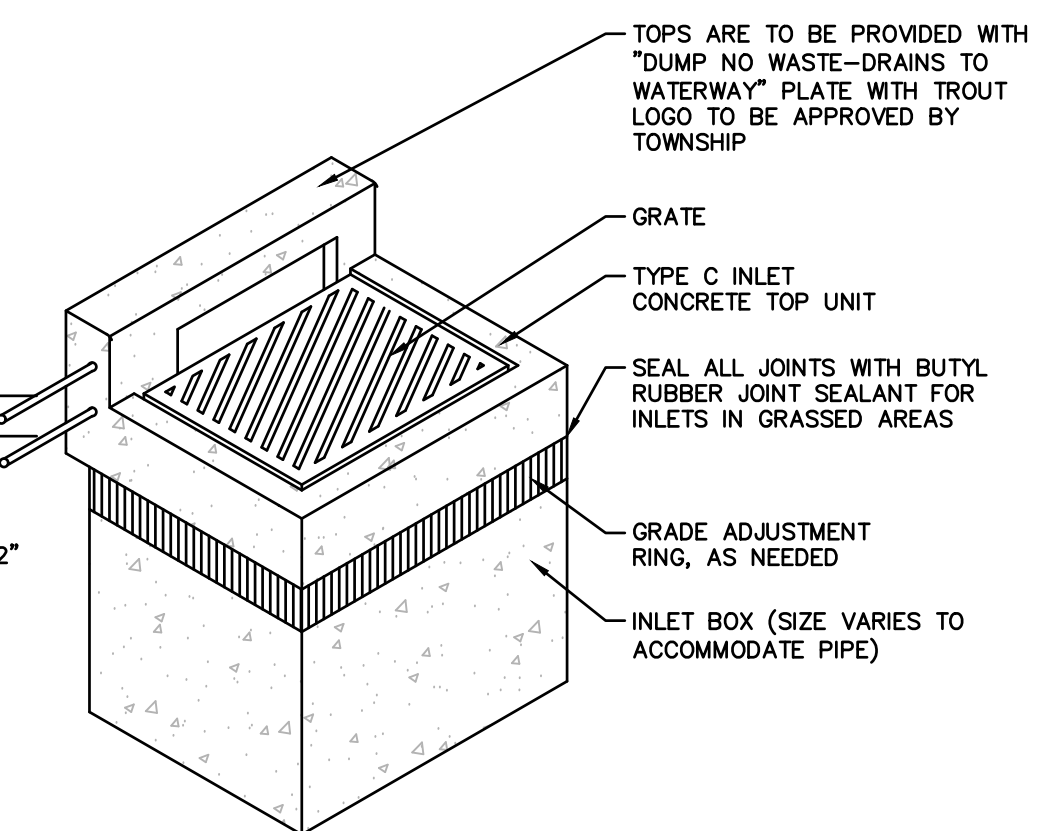
SECTION A-A



SECTION B-B



PLAN VIEW



- NOTES:
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 605 AND STANDARDS FOR ROADWAY CONSTRUCTION, RC-45 AND RC-46 (PUB. 72M, LATEST EDITION). CONTRACTOR SHALL VERIFY INLET BOX SIZING BASED ON PIPE SIZES AND ALIGNMENT PRIOR TO ORDERING PRECAST STRUCTURES.
 2. ALL DRAINAGE STRUCTURES SHALL HAVE POURED-IN-PLACE CONCRETE CHANNEL BOTTOMS.
 3. ALL PENNDOT INLETS ARE TO BE PROVIDED WITH EITHER A PAINTED STENCILED LOGO ON THE ROADWAY OR ANOTHER ACCEPTABLE MARKING APPROVED BY THE GOVERNING AGENCY.
 4. ALL FRAMES, CONCRETE TOP UNITS, AND GRADE ADJUSTMENT RINGS SHALL BE SET IN A BED OF FULL MORTAR ACCORDING TO PUBLICATION 408
 5. PROVIDE WEEP HOLES COVERED WITH GEOTEXTILE FABRIC AND PLACED AT THE APPROPRIATE ELEVATION TO COMPLETELY DRAIN THE SUBGRADE PRIOR TO PLACING THE BASE COURSE OF PAVEMENT.

NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH PENNDOT PUBLICATIONS/408, LATEST EDITION, AND AS DETAILED IN PENNDOT PUBLICATION 72M, LATEST EDITION AND CERTIFIED FOR H2O LOADING
2. PROVIDE BICYCLE SAFE GRATE.

TYPE "C" INLET

N.T.S.

FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION

DATE:	08/06/2021
PROJECT NO:	2101256
DRAWN BY:	JRJ
CHECKED BY:	AJB
REVISIONS:	
1	PER TWP COMMENTS 2021-08-13
2	PER TWP COMMENTS 2021-10-08
3	PER TWP COMMENTS 2021-12-03

TOMMY CAR WASH SYSTEM
 3523 UNION DEPOSIT RD
 HARRISBURG, PA
P2825

Architecture
 Engineering
 Environmental
 Land Surveying
BC Companies
 2601 Market Place
 Suite 350
 Harrisburg, PA 17110
 (717) 943-1665
 (717) 651-9858 Fax
 Project No. 2101256

CHRISTIANSON COMPANIES
 PH. (701) 281-9500
 FAX (701) 281-9501
 4609 33RD AVE. S.
 SUITE 400
 FARGO, ND 58104

RG DESIGN
 PH. (701) 499-0212
 FAX (701) 281-9501

SHEET DESCRIPTION:
 DETAIL SHEET

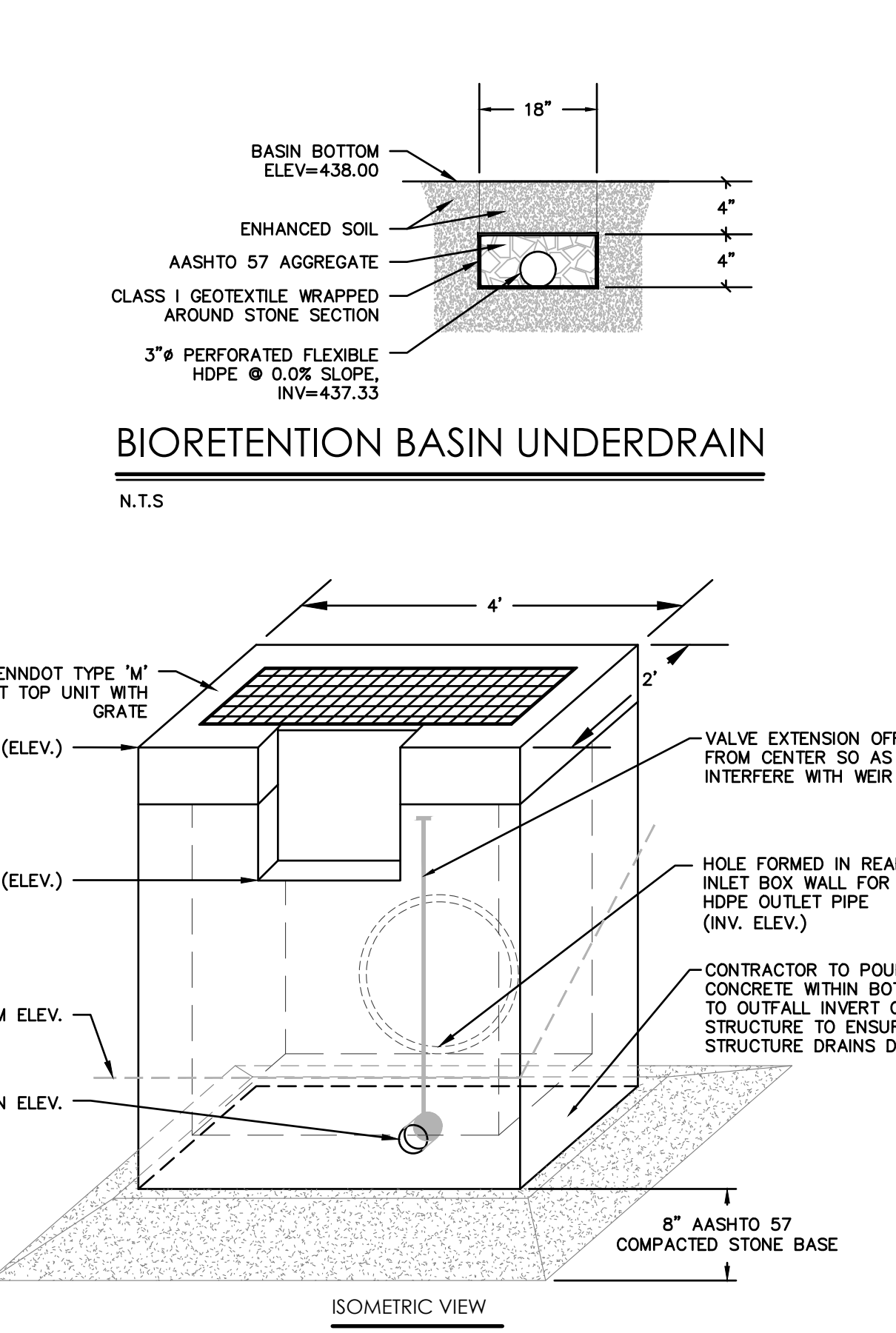
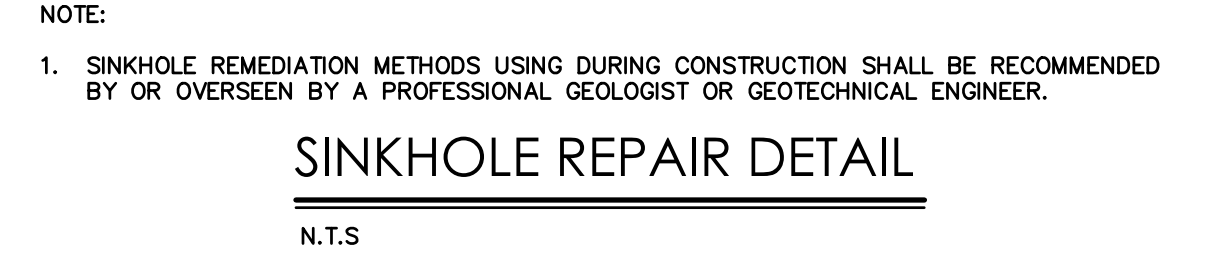
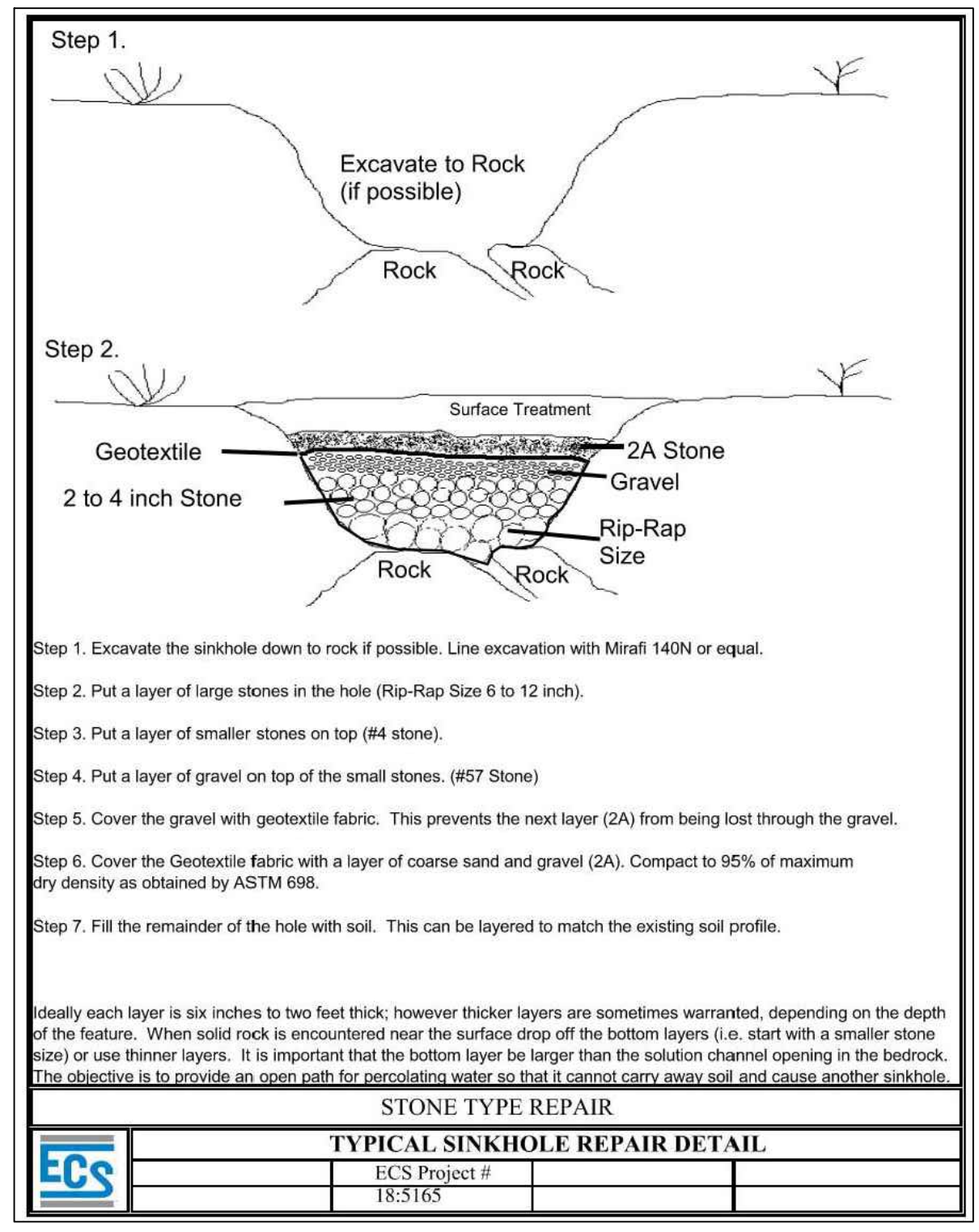
Sheet
DN-4
 No. 12 of 14

OPERATION & MAINTENANCE PROGRAM FOR BMPs

BIORETENTION FACILITY / RAIN GARDEN	
OPERATION & MAINTENANCE PROCEDURES	
ACTIVITY	SCHEDULE
DECOMPACT THE BASIN BOTTOM TO A DEPTH OF 8". SEED WITH PLANTING MIX SHOWN ON APPROVED PLANS. QUALIFIED PROFESSIONAL OR THEIR DESIGNEE SHALL ENSURE THAT DESIGN INFILTRATION RATE IS BEING ACHIEVED. BASIN 1: 0.25 TO 10.00 IN/HR	AT CONSTRUCTION OF PERMANENT INFILTRATION FACILITY
FIRST GROWING SEASON: WHENEVER VEGETATION REACHES A HEIGHT OF 18-24". TRIM TO A HEIGHT OF 8". HAND PULL UNWANTED VEGETATION AND INVASIVE SPECIES. SECOND GROWING SEASON: PRIOR TO NEW SPRING GROWTH REACHING A HEIGHT OF 2'. TRIM ALL VEGETATION DOWN TO 6". HAND PULL UNWANTED VEGETATION AND INVASIVE SPECIES.	FIRST AND SECOND GROWING SEASONS, AND AS NEEDED
REMOVE LITTER AND DEBRIS. INSPECT FOR SEDIMENT BUILDUP, EROSION, AND VEGETATIVE CONDITIONS. STABILIZE ERODED BANKS. REPAIR UNDERCUT AND ERODED AREAS AT INFLOW AND OUTFLOW STRUCTURES. AND RESEED AS NECESSARY TO INSURE STABILIZATION. CONTACT QUALIFIED PROFESSIONAL IF SIGNIFICANT SEDIMENT BUILDUP (I.E. POND VOLUME HAS BEEN REDUCED BY 10%) OR EROSION HAS OCCURRED.	MONTHLY
INSPECT FACILITY FOR SIGNS OF WEINER OR DAMAGE TO STRUCTURES. NOTE ERODED AREAS. IF DEAD OR DYING GRASS ON THE BOTTOM IS OBSERVED, CHECK TO ENSURE THAT WATER IS PERCOLATING WITHIN THE DESIGN DEWATERING TIME (SEE BELOW).	TWICE PER YEAR
IF AFTER A 2-YEAR STORM EVENT, WATER HAS NOT INFILTRATED WITHIN THE DESIGN DEWATERING TIME (SEE BELOW), WAIT UNTIL AFTER THE NEXT 2-YEAR STORM EVENT TO SEE IF DESIGN DEWATERING TIME HAS BEEN ACHIEVED. IF THE BASIN IS STILL NOT DEWATERING APPROPRIATELY, CONTACT A QUALIFIED PROFESSIONAL TO EVALUATE THE BMP AND IMMEDIATELY CORRECT THE DETERMINED MALFUNCTION TO ACHIEVE DEWATERING TIMES AS FOLLOWS: BASIN 1: 24 - 72 HOURS	TWICE PER YEAR FOR FIRST THREE YEARS
1. VEGETATION ALONG THE SURFACE OF THE BASIN BOTTOM SHOULD BE MAINTAINED IN GOOD CONDITION, AND ANY BARE SPOTS REVEGETATED AS SOON AS POSSIBLE. 2. VEGETATIVE COVER SHALL BE MAINTAINED AT A MINIMUM OF 95%. 3. VEHICLES SHOULD NOT BE PARKED OR DRIVEN ON BASIN BOTTOM. AVOID COMPACTION. 4. DURING PERIODS OF EXTENDED DROUGHT, INFILTRATION AREA MAY REQUIRE WATERING.	

STORMWATER COLLECTION/CONVEYANCE	
OPERATION & MAINTENANCE PROCEDURES	
ACTIVITY	SCHEDULE
INLETS & CATCH BASINS SHOULD BE CLEANED OF DEBRIS. REPAIRS SHOULD BE MADE AS SOON AS PROBLEMS ARISE.	CLEAN ONCE PER YEAR & REPAIR AS NEEDED
INSPECT OUTFALL STRUCTURES QUARTERLY DURING 1ST YEAR & ONCE PER YEAR THEREAFTER	QUARTERLY & ONCE PER YEAR
COLLECTION/CONVEYANCE SYSTEMS SHOULD BE INSPECTED FOR DEBRIS, TRASH, AND SEDIMENT ACCUMULATION TWICE PER YEAR MINIMUM AND AFTER STORM EVENTS OF 1" OR GREATER.	TWICE PER YEAR & AFTER 1" STORMS OR GREATER

GENERAL MAINTENANCE NOTES:
 1. VACUUM TRUCKS MAY BE AN EFFICIENT CLEANING MECHANISM.
 2. CATCH BASINS SHOULD BE CLEANED BEFORE HALF FULL.

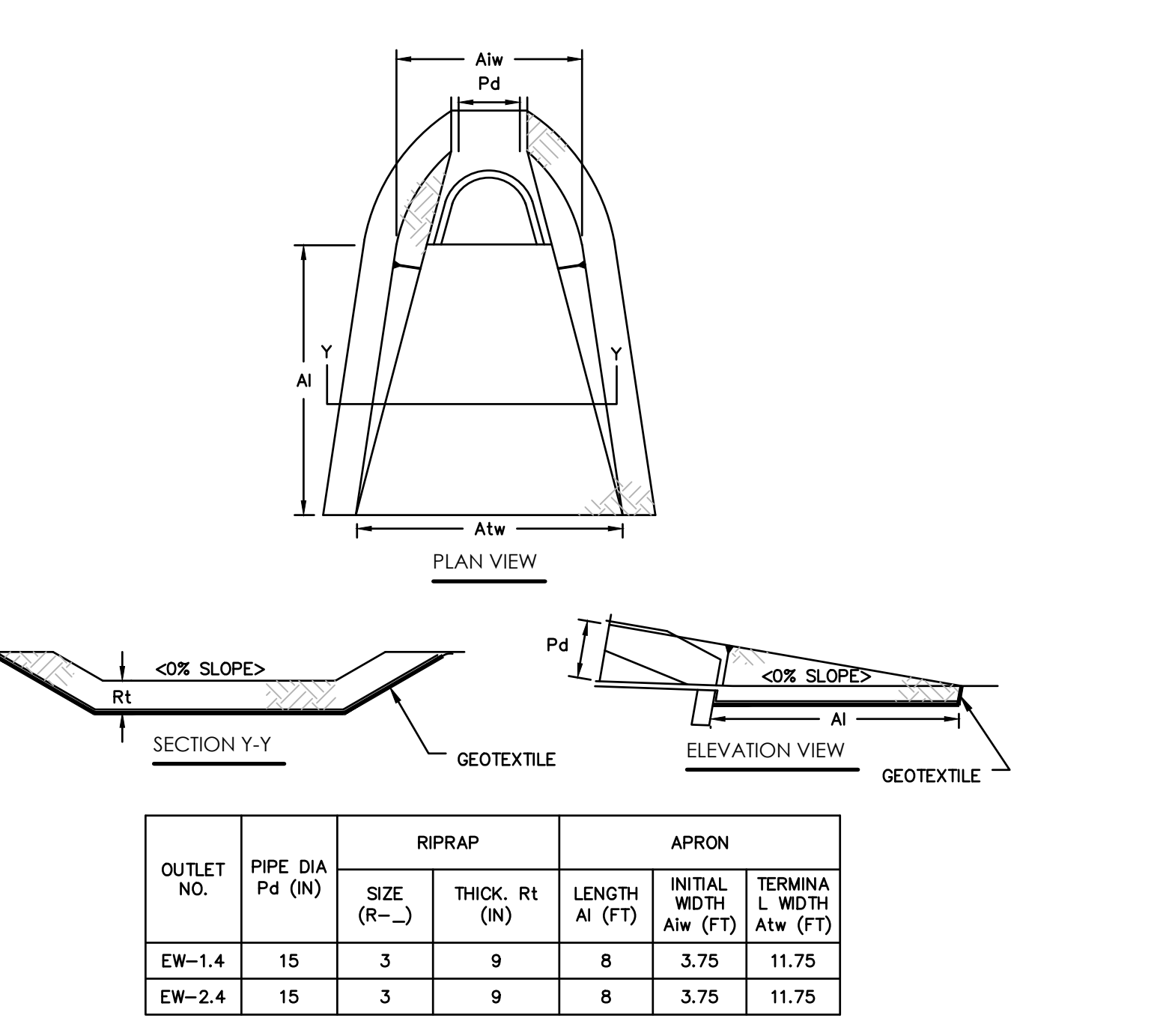


STRUCTURE ID	STRUCTURE TYPE	BASIN BOTTOM ELEV.	OUTLET/UNDERDRAIN INVERT ELEV.	WEIR ELEV.	WEIR CREST [N]	WEIR HEIGHT [N]	RISER TOP ELEV.	OUTLET PIPE SIZE [IN]
OCS-1-9	PADOT TYPE M	438.00	437.33	440.00	18	12	441.00	18

NOTE:
 1. THE PROPOSED OUTLET STRUCTURE SHALL BE A STANDARD TYPE "M" INLET IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 605 AND STANDARDS FOR ROADWAY CONSTRUCTION, RC-45 AND RC-46.
 2. IF RISER SECTIONS ARE REQUIRED TO PRODUCE AN INLET BOX OF SUFFICIENT HEIGHT TO MEET THE DIMENSIONS REQUIRED BY THE PROJECT, THE JOINT BETWEEN EACH INLET BOX RISER SECTION SHALL BE SEALED WITH BLACK MASTIC SEALING COMPOUND.

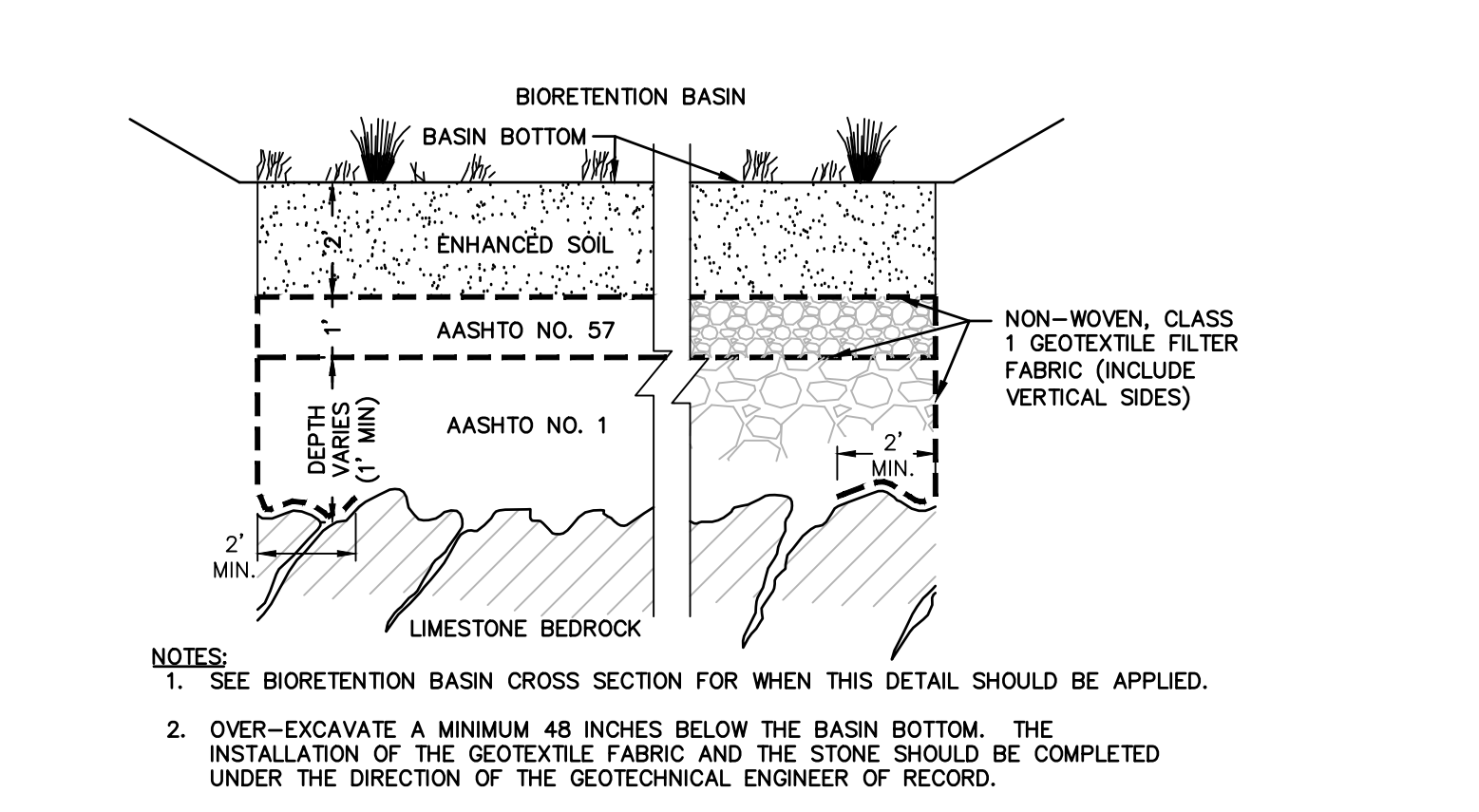
BIORETENTION BASIN CROSS SECTION
 N.T.S.

FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION

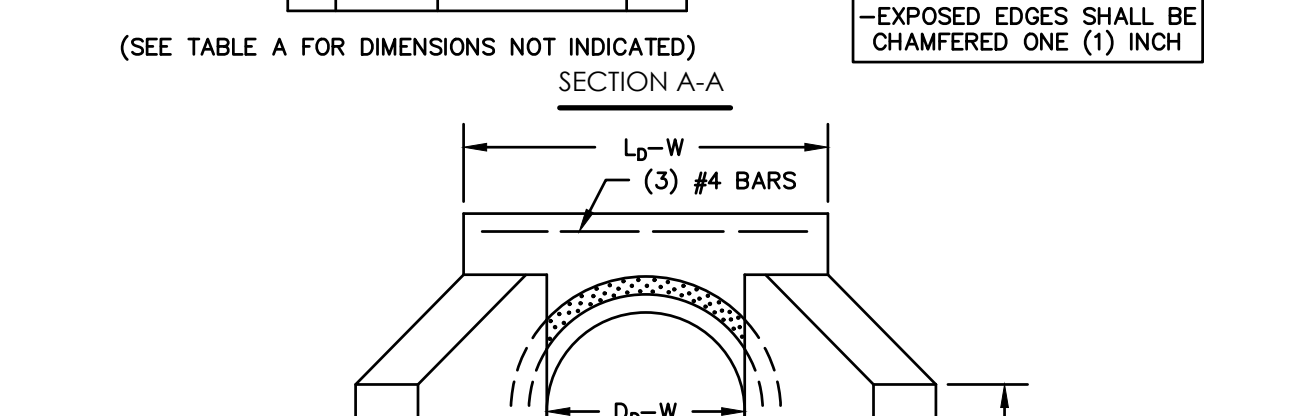
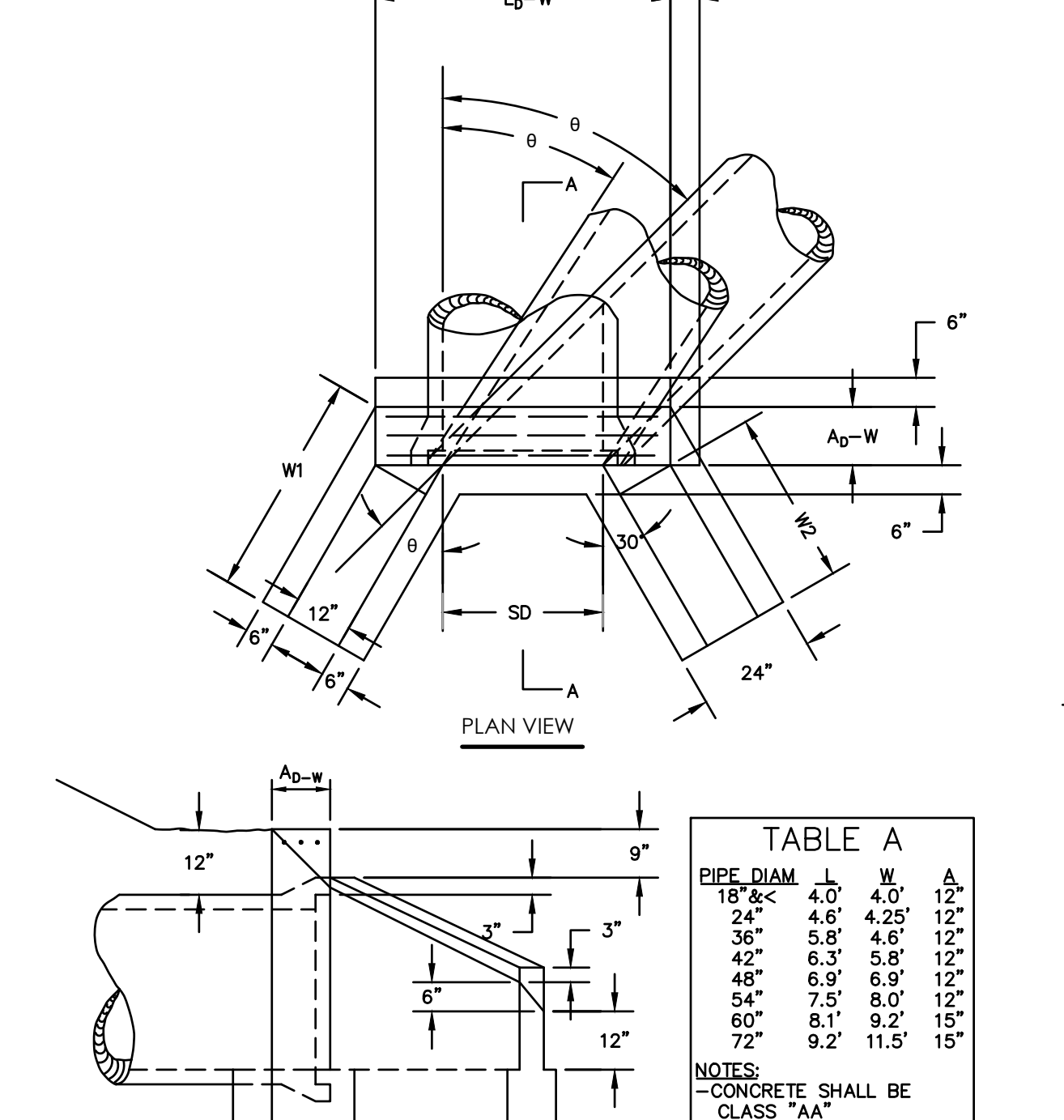
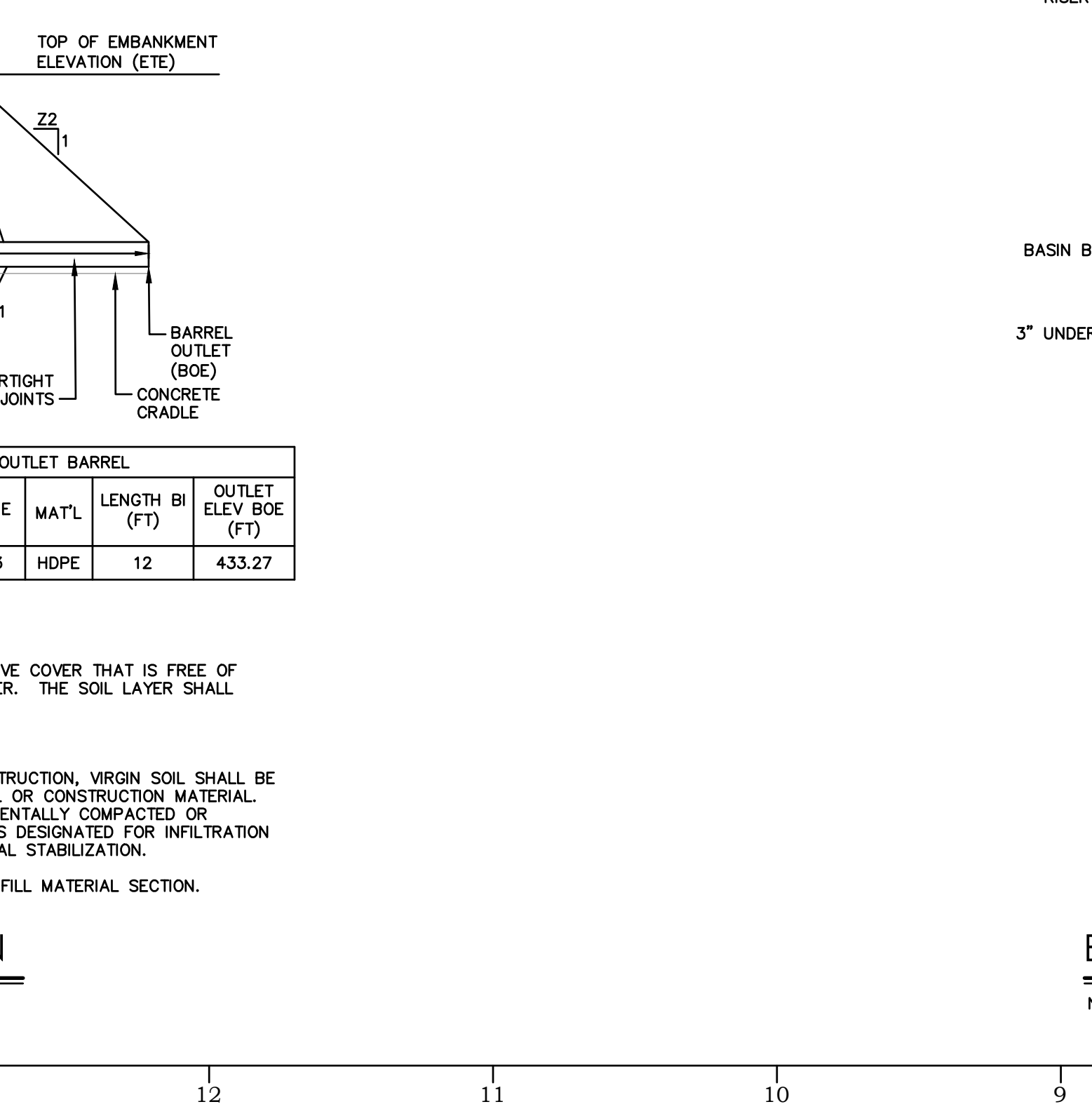


ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.
 ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

ENGINEERED FILL MATERIAL SECTION
 N.T.S.



EMERGENCY SPILLWAY WITH TRM LINING DETAIL
 N.T.S. PADEP-7-13



BASIN NO.	Z1 (FT)	Z2 (FT)	EMBANKMENT				BOTTOM ELEV BE (FT)	OUTLET BARREL				
			TOP ELEV ETE (FT)	TOP WIDTH ETW (FT)	KEY TRENCH DEPTH (FT)	KEY TRENCH WIDTH (FT)		DIA Bd (IN)	INLET ELEV BIE (FT)	MATL	LENGTH BI (FT)	OUTLET ELEV BOE (FT)
1	3	3	443.33	8.00	2.00	4.00	438.00	18.0	437.33	HDPE	12	433.27

NOTE:
 1. THE 24" ENHANCED SOIL LAYER SHALL BE A MIX OF 75% TOPSOIL/ 25% MULCH
 * TOPSOIL: THE TOPSOIL SHALL BE A LOAM CAPABLE OF SUPPORTING A HEALTHY VEGETATIVE COVER THAT IS FREE OF SUBSOIL, CLAY LUMPS, BRUSH, ROOTS, WEEDS, AND ANY OTHER FOREIGN MATTER. THE SOIL LAYER SHALL ALSO HAVE A CLAY CONTENT OF LESS THAN 10%.
 * MULCH: THE MULCH SHALL BE TRIPLE SHREDDED.
 2. MAINTAIN A MINIMUM DEPTH TO BEDROCK OF 2 FEET, WHERE POSSIBLE. DURING SITE CONSTRUCTION, VIRGIN SOIL SHALL BE PROTECTED FROM COMPACTION DUE TO HEAVY EQUIPMENT OPERATION OR STORAGE OF FILL OR CONSTRUCTION MATERIAL. INFILTRATION AREAS SHALL BE PROTECTED FROM SEDIMENTATION. AREAS THAT ARE ACCIDENTALLY COMPACTED OR GRADED SHALL BE REMEDIATED TO RESTORE SOIL COMPOSITION AND POROSITY. ALL AREAS DESIGNATED FOR INFILTRATION SHALL NOT RECEIVE RUNOFF UNTIL THE CONTRIBUTORY DRAINAGE AREA HAS ACHIEVED FINAL STABILIZATION.
 3. WHERE 2 FEET OF EXISTING VIRGIN SOIL CANNOT BE MAINTAINED, UTILIZE THE ENGINEERED FILL MATERIAL SECTION.

EMERGENCY SPILLWAY WITH TRM LINING DETAIL
 N.T.S. PADEP-7-13

FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION

