

FINAL ENGINEERING PLANS

MALARKEY IND

3540 ESSEX DRIVE

FRANKLIN, IN 46131

UTILITY AND GOVERNING AGENCY CONTACTS

SERVICE / JURISDICTION	COMPANY / DEPT.	ADDRESS	PHONE NUMBER	CONTACT
SANITARY SEWER	CITY OF FRANKLIN DEPARTMENT OF PUBLIC WORKS	796 SOUTH STATE ST, FRANKLIN, IN 46131	(317) 736-3640	SALLY BROWN
STORM SEWER	CITY OF FRANKLIN DEPARTMENT OF PUBLIC WORKS	796 SOUTH STATE ST, FRANKLIN, IN 46131	(317) 736-3640	TYLER URBAN
WATER	INDIANA AMERICAN WATER COMPANY	555 EAST COUNTY LINE ROAD, GREENWOOD, IN 46143	(317) 831-3385 EXT. 2	TROY BRYANT
FIRE DEPARTMENT	CITY OF FRANKLIN	1800 THORNBURG LANE FRANKLIN, IN 46131	(317) 736-3650	BRYNE PURSIFULL
NATURAL GAS	CENTERPOINT ENERGY	600 INDUSTRIAL DRIVE FRANKLIN, IN 46131	(866) 203-4284	DAVID SHERRY
ELECTRICITY	DUKE ENERGY	2515 NORTH MORTON STREET FRANKLIN, IN 46131	(866) 236-3749	JEAN RENK
TELEPHONE / COMMUNICATIONS	LUMEN	1147 MORTON STREET FRANKLIN, IN 46131	(317) 736-7863	JOHN MEYERS
STREETS	CITY OF FRANKLIN DEPARTMENT OF PUBLIC WORKS	790 SOUTH STATE ST, FRANKLIN, IN 46131	(317) 736-3660	BRETT JONES
PLANNING AND ZONING	CITY OF FRANKLIN DEPARTMENT OF PLANNING AND ENGINEERING	70 EAST MONROE ST, FRANKLIN, IN 46131	(317) 736-3631	JOANNA TENNELL
GRAHAM ARM REGULATED DRAIN	JOHNSON COUNTY SURVEYOR	86 WEST COURT ST, ANNEX FRANKLIN, IN 46131	(317) 346-4343	GREGG CANTWELL

PROJECT TEAM

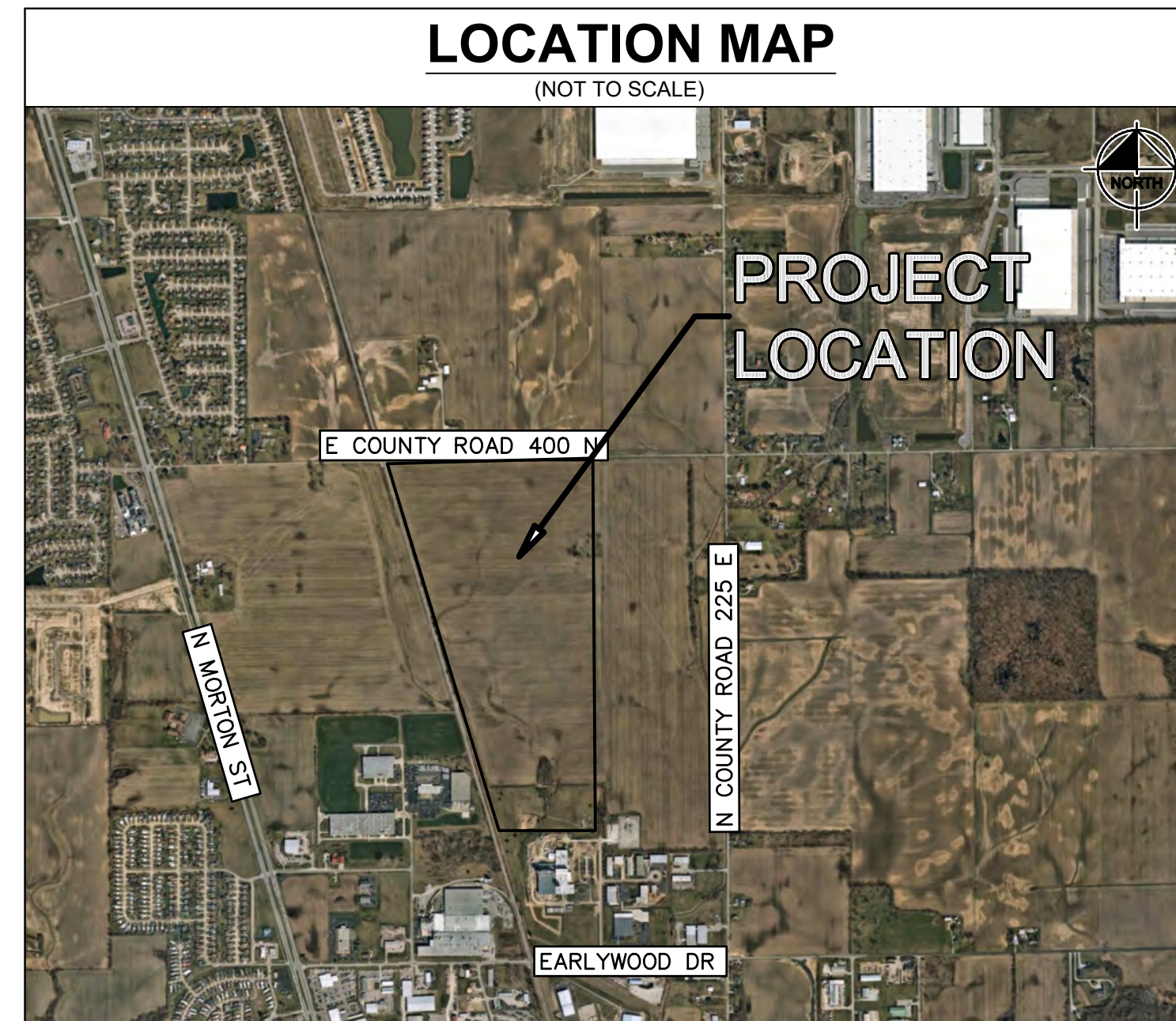
ROLE	COMPANY	ADDRESS	PHONE NUMBER	CONTACT
OWNER	MALARKEY ROOFING	3131 NORTH COLUMBIA BOULEVARD, PORTLAND, OR 97217	(503) 283-1191	DAVE WACHSMUTH
CONSULTANT	COOPER & ASSOCIATES LLC	2200 ELLIS ROAD NEW LENOX, IL 60451	(815) 726-2383	SANJAY GURAV Ph.D., P.E
CIVIL ENGINEER	KIMLEY-HORN & ASSOCIATES, INC.	500 E. 96TH ST., STE 300, INDIANAPOLIS, IN 46240	(317) 218-9560	ANTHONY MAGINITY P.E
LANDSCAPE ARCHITECT	KIMLEY-HORN & ASSOCIATES, INC.	500 E. 96TH ST., STE 300, INDIANAPOLIS, IN 46240	(317) 218-9560	ELIZABETH VAN SICKEL, PLA
LAND SURVEYOR	KUHN & GUSTAFSON LAND SURVEYING	410 WEST OAK ST., STE 9B, ZIONSVILLE, IN 46077	(317) 344-2822	BRADY KUHN, PLS

LEGAL DESCRIPTION

PART OF THE NORTHEAST QUARTER OF SECTION 34, TOWNSHIP 13 NORTH, RANGE 4 EAST OF THE SECOND PRINCIPAL MERIDIAN, JOHNSON COUNTY, INDIANA.
 DESCRIBED AS FOLLOWS:
 COMMENCING AT A MAG NAIL MARKING THE NORTHEAST CORNER OF SAID NORTHEAST QUARTER; THENCE ALONG THE NORTH LINE THEREOF SOUTH 88 DEGREES 38 MINUTES 49 SECONDS WEST (BEARINGS BASED ON EAST LINE OF SECTION 34 BEING SOUTH 00 DEGREES 20 MINUTES 21 SECONDS EAST) 126.97 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING ALONG SAID NORTH LINE SOUTH 88 DEGREES 38 MINUTES 49 SECONDS WEST 2211.18 FEET TO THE APPARENT EAST 20' HALF RIGHT-OF-WAY LINE OF AN EXISTING RAILROAD; THENCE ALONG SAID APPARENT EAST 20' HALF RIGHT-OF-WAY LINE SOUTH 16 DEGREES 27 MINUTES 21 SECONDS EAST 3661.24 FEET TO THE NORTH LINE OF THE LAND OF ESSEX GROUP, INC. AS DESCRIBED IN INSTRUMENT NO. 1992-7878 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA; THENCE ALONG SAID NORTH LINE NORTH 88 DEGREES 40 MINUTES 48 SECONDS EAST 1317.12 FEET TO A POINT ON A NON-TANGENT CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 445.00 FEET AND A CHORD BEARING NORTH 17 DEGREES 58 MINUTES 06 SECONDS WEST 145.67 FEET; THENCE NORTHWESTERLY ALONG SAID CURVE 146.33 FEET; THENCE NORTH 27 DEGREES 23 MINUTES 19 SECONDS WEST 127.35 FEET TO A POINT ON A CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 355.00 FEET AND A CHORD BEARING NORTH 13 DEGREES 41 MINUTES 41 SECONDS WEST 168.08 FEET; THENCE NORTHWESTERLY ALONG SAID CURVE 169.69 FEET; THENCE NORTH 00 DEGREES 00 MINUTES 03 SECONDS WEST 3118.19 FEET TO THE POINT OF BEGINNING, CONTAINING 137.98 ACRES, MORE OR LESS.

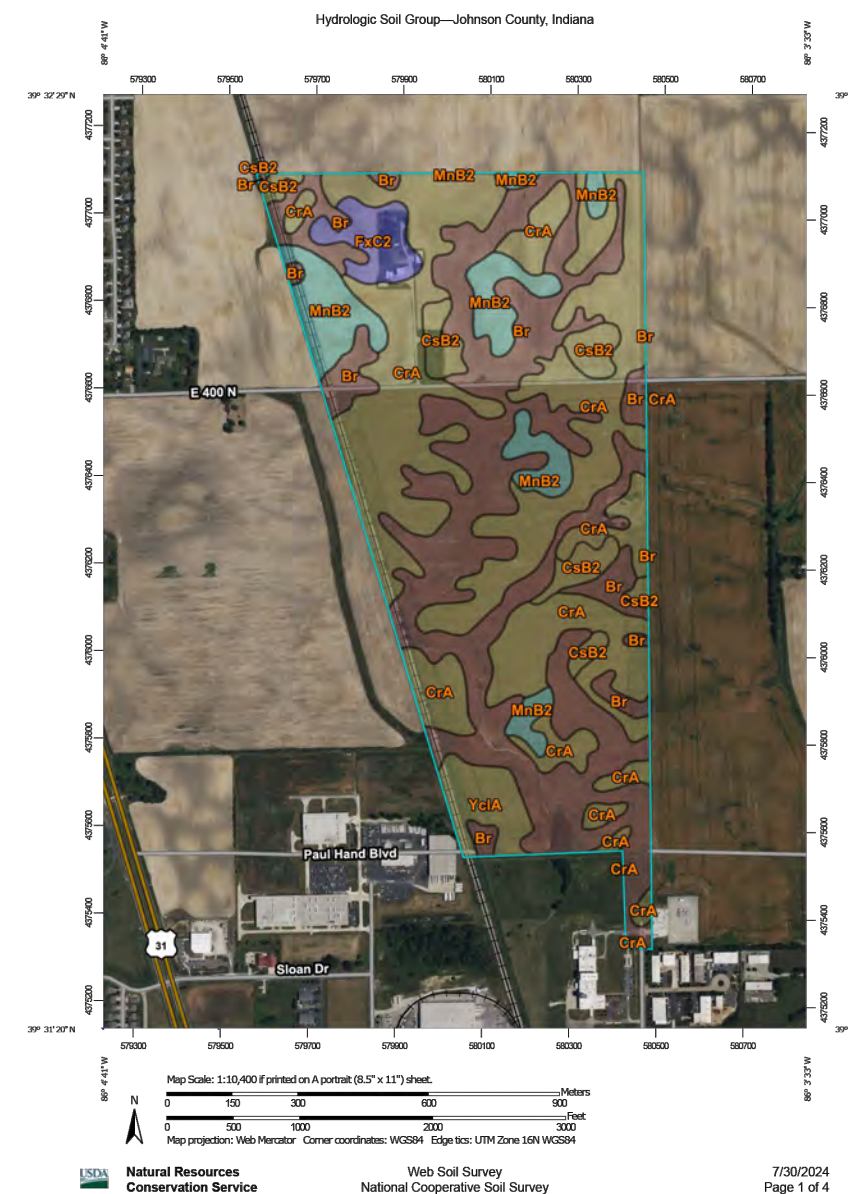
LOCATION MAP

(NOT TO SCALE)



JOHNSON COUNTY

FINAL BUILDOUT FOR A ±357,600 SF INDUSTRIAL BUILDING FOR MALARKEY ROOFING ON ±137.98 AC. PROJECT IS IN SECTION 34 OF T13N, R4E IN THE FRANKLIN, JOHNSON COUNTY INDIANA.



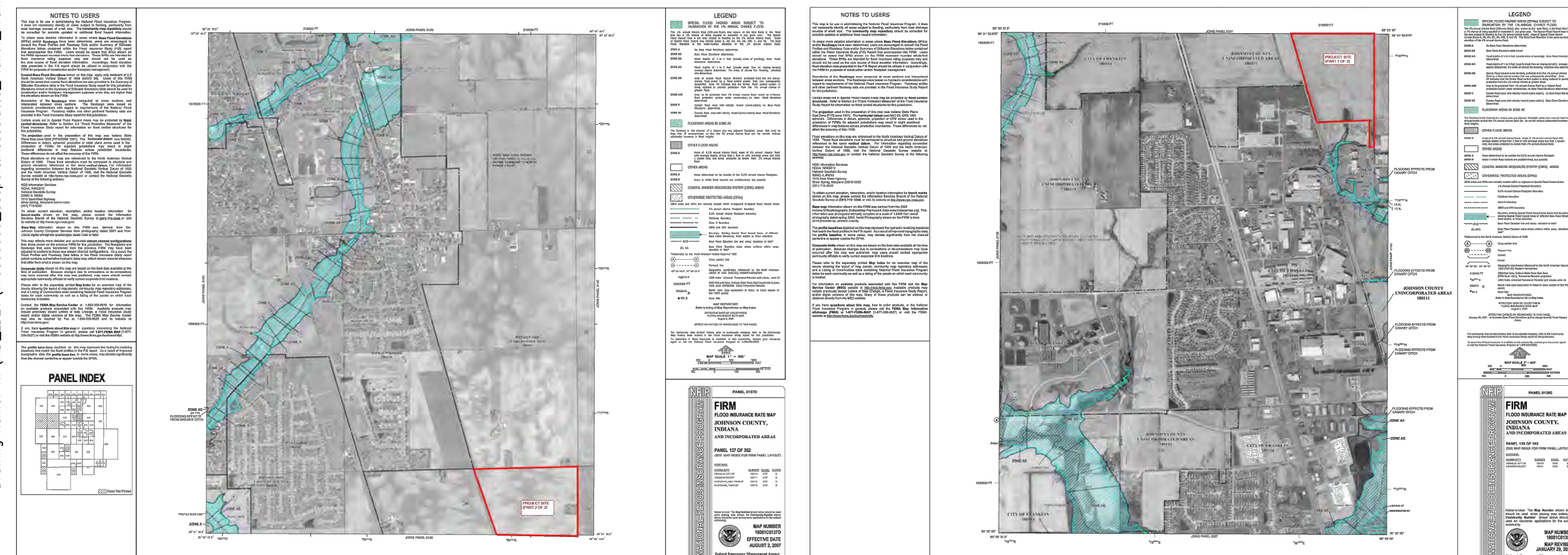
- NO STRUCTURES, OR IMPROVEMENTS SHALL BE PERMITTED WITHIN THE LEGAL DRAIN EASEMENT. ALL UTILITIES, BUILDINGS, STRUCTURES, PLANTINGS, CROPS, TREES, SHRUBS, AND WOODY VEGETATION GROWN WITHIN THE EASEMENT, OR ALONG THE LEGAL DRAIN ARE AT THE RISK OF OWNER AND SUBJECT TO REMOVAL WITH MINIMAL NOTICE, WITHOUT RESTITUTION, AND SUBJECT TO SPECIAL ASSESSMENT... (IC 36-9-27-33).
- THIS SITE PLOTS BY SCALE AS BEING WITHIN A REGULATED WATERSHED. ANY AND ALL SITE IMPROVEMENTS WITHIN A REGULATED WATERSHED ARE SUBJECT TO REVIEW BY THE JOHNSON COUNTY DRAINAGE BOARD. ALL TRACTS WITHIN A REGULATED DRAIN WATERSHED ARE SUBJECT TO ASSESSMENTS FOR MAINTENANCE (IC 36-9-27-44), AND WHEN PRACTICABLE, RECONSTRUCTION (IC 36-9-27-51).
- NO CONSTRUCTION, OR IMPROVEMENTS SHALL IMPAIR OR NEGATIVELY IMPACT ANY PRIVATE DRAIN TILE (IC 36-9-27-2) KNOWN OR UNKNOWN. NO CONSTRUCTION, OR IMPROVEMENTS SHALL IMPAIR, IMPEDE, OR NEGATIVELY IMPACT A NATURAL SURFACE WATERCOURSE (IC 36-9-27.4-3). WHEN ENCOUNTERED SAID TILE OR WATERCOURSE WILL BE DESIGNED, AND RE-ROUTED SO NOT TO IMPEDE, IMPAIR, OR NEGATIVELY IMPACT SURFACE OR SUBSURFACE WATER FLOW.

MALARKEY IND SHEET LIST TABLE

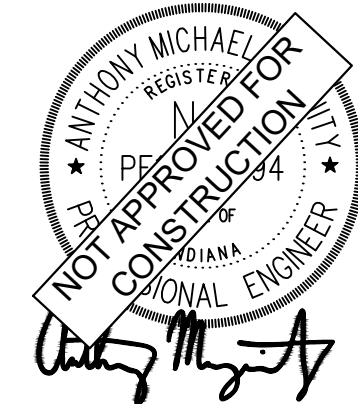
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2002	GENERAL NOTES
2100	OVERALL EXISTING CONDITIONS AND DEMO PLAN
2200	OVERALL SITE PLAN
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2225-2226	FIRE TRUCK PLAN
2227-2228	TRUCK PLAN
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2321	EROSION CONTROL DETAILS
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2401-2420	GRADING AND DRAINAGE PLAN
2421	ADA DETAIL GRADING PLAN
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ESSEX DRIVE SHEET LIST TABLE

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PROFESSIONAL SEAL



NOTICE

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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY



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 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN
 PHASE 2 - FINAL BUILDOUT
 TITLE SHEET

PROJ. NO.	170509000
DWG. NO.	2000
SHEET	0
REV	0

GENERAL NOTES

- THE MUNICIPALITY REQUIREMENTS AND THE LATEST INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS INCLUDING CHANGES SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN UNLESS OTHERWISE NOTED. WHEN CONFLICTS ARISE BETWEEN ABOVE LISTED SPECIFICATIONS, THE MORE STRINGENT SHALL TAKE PRECEDENCE.
- STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND RECURRING SPECIAL PROVISIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED, BUT ARE CONSIDERED PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLAN. THE CONTRACTOR SHALL CALL INDIANA UTILITIES PROTECTION SERVICE (811 OR 1.800.362.2764) AND THE MUNICIPALITY FOR UTILITY LOCATIONS.
- NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION" PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE SURVEYOR'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONTRACT PLANS, HE/SHE MUST MAKE THEM TO THE SURVEYOR OR ENGINEER BEFORE DOING ANY WORK. OTHERWISE, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS, AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT THE CONTRACTOR'S OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- NOTIFICATION OF COMMENCING CONSTRUCTION:
 - THE CONTRACTOR SHALL NOTIFY AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY, AS NECESSARY, ALL TESTING AGENCIES, THE MUNICIPALITY, AND THE OWNER SUFFICIENTLY IN ADVANCE OF CONSTRUCTION.
 - FAILURE OF THE CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN THE TESTING COMPANIES TO BE UNABLE TO VISIT THE SITE AND PERFORM TESTING WILL CAUSE THE CONTRACTOR TO SUSPEND THE OPERATION TO BE TESTED UNTIL THE TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COST OF SUSPENSION OF WORK SHALL BE BORNE BY THE CONTRACTOR.
 - ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL EMERGENCY TRAFFIC, AS DIRECTED BY THE MUNICIPALITY.
 - ALL PROPOSED GRADES SHOWN ON PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS NOTED OTHERWISE.
 - THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE SURVEYOR AT THE CONTRACTOR'S EXPENSE.
 - ALL FRAMES AND LIDS FOR STORM AND SANITARY SEWERS, VALVE VAULT COVERS, FIRE HYDRANTS, AND B-XBOXES ARE TO BE ADJUSTED TO MEET FINISHED GRADE. THIS ADJUSTMENT IS TO BE MADE BY THE SEWER AND WATER CONTRACTOR, AND THE COST IS TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT AFFECT THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE MUNICIPALITY UPON FINAL INSPECTION OF THE PROJECT. FINAL GRADES MAY BE DETERMINED BY THE MUNICIPALITY AND MAY VARY FROM PLAN GRADE.
 - ANY EXISTING SIGNS, LIGHT STANDARDS, AND UTILITY POLES THAT INTERFERE WITH CONSTRUCTION OPERATIONS AND ARE NOT NOTED ON THE PLANS FOR DISPOSAL, SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT HIS/HER OWN EXPENSE. ANY SIGNAGE AS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE TO THE SATISFACTION OF THE OWNER. ANY SIGNS NOT REQUIRED TO BE RESET SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.
 - REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER, CURBS, ETC., SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR ANY PERMITS REQUIRED FOR SUCH REMOVAL.
 - ANY FELD TILES ENCOUNTERED SHALL BE INSPECTED BY THE MUNICIPALITY. THE DRAIN TILE SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE SEWER AND WATER MAINS. ANY CONDITIONS AND TURNED OVER TO THE MUNICIPALITY UPON COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
 - BEFORE ACCEPTANCE, ALL WORK SHALL BE INSPECTED BY THE MUNICIPALITY, AS NECESSARY.
 - EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITH PUBLIC RIGHT-OF-WAYS ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OF THE NEW UTILITY LINES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
 - OWNER SHALL OBTAIN EASEMENTS AND APPROVAL OF PERMITS NECESSARY TO FACILITATE CONSTRUCTION OF THE PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS AND EASEMENTS.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB PER OSHA REGULATIONS.
 - IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES, AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, LATEST EDITION, AND IN ACCORDANCE WITH THE MUNICIPAL ORDINANCES.
 - THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS, AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL OF DEBRIS. REQUIRED FOR CLEANUP, AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.
 - NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE MUNICIPALITY. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE MUNICIPALITY PRIOR TO INSTALLING PAVEMENT BASE, BINDER, AND SURFACE, AND PRIOR TO POURING ANY CONCRETE AFTER FORMS HAVE BEEN SET, AS NECESSARY.
 - ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT, AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS A PAY ITEM IS LISTED ON THE BID LIST.
 - AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.
 - TREES NOT MARKED FOR REMOVAL SHALL BE DESIGNATED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED, AS PER MUNICIPAL STANDARDS.
 - LIMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF AN APPROVED LANDSCAPE ARCHITECT, FORESTER, OR ARBORIST AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS/HER OWN EXPENSE. ALL CUTS OVER ONE (1) INCH IN DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT.
 - WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND PIPE SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE MERGED INTO THE CONTRACT UNIT PRICE EACH FOR STRUCTURES AND CONTRACT ITEMS. THE LINEAL FOOT FOR EACH STRUCTURE SHALL BE PAID IN FULL FOR CLEANING, PATCHING, REMOVAL, AND DISPOSAL OF DEBRIS AND DIRT. DRAINAGE STRUCTURES AND STORM SEWERS CONSTRUCTED AS PART OF THIS PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS EXPENSE. NO EXTRA PAYMENT WILL BE MADE FOR CLEANING STRUCTURES OR STORM SEWERS CONSTRUCTED AS PART OF THIS PROJECT.
 - HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ONTO THE ROAD SUBGRADES. WHENEVER POSSIBLE, HOSES SHALL BE USED TO DIRECT THE WATER INTO LOT AREAS OR THE STORM SEWER SYSTEM, IF AVAILABLE. DAMAGE TO THE ROAD SUBGRADE OR LOT GRADING DUE TO EXCESSIVE WATER SATURATION AND/OR EROSION FROM HYDRANT FLUSHING OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM WILL BE REPAIRED BY THE CONTRACTOR FLUSHING OR USING THE HYDRANT AT THE CONTRACTOR'S OWN EXPENSE. LEAKS IN THE WATER DISTRIBUTION SYSTEM SHALL BE THE RESPONSIBILITY OF THE WATER MAIN CONTRACTOR AND SHALL BE REPAIRED AT HIS EXPENSE.
 - AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED, THE CONTRACTOR SHALL PLACE EROSION CONTROL AT LOCATIONS INDICATED BY THE ENGINEER. THE PURPOSE OF THE EROSION CONTROL WILL BE TO MINIMIZE THE AMOUNT OF SILTATION THAT NORMALLY WOULD ENTER THE STORM SEWER SYSTEM FROM ADJACENT AND/OR UPSTREAM DRAINAGE AREAS.
 - THE TRENCHES FOR PIPE INSTALLATION SHALL BE KEPT DRY AT ALL TIMES DURING PIPE PLACEMENT. APPROPRIATE FACILITIES TO MAINTAIN THE DRY TRENCH SHALL BE PROVIDED BY THE CONTRACTOR, AND THE COST OF SUCH SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE SITE. SWAYING, IF EMPLOYED, SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION UNLESS APPROVED IN WRITING BY THE OWNER.
 - EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH IDEM REGULATIONS AND STANDARDS FOR SOIL EROSION AND SEDIMENTATION CONTROL AND SHALL BE MAINTAINED BY THE CONTRACTOR AND REMAIN IN PLACE UNTIL A SUITABLE GROWTH OF GRASS, ACCEPTABLE TO THE ENGINEER, HAS DEVELOPED.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

EROSION CONTROL NOTES

- CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED TO CONDUCE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.
- POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENTLY PAVED, DRAINAGE SYSTEM STRUCTURE, OR LANDSCAPING.
- TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
- BMP'S MAY BE LOCATED AS INDICATED IN THESE PLANS IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF

DEMOLITION NOTES

- THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCOMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INCORPORATED INTO THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THE DEMOLITION PLAN.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO COMMENCING ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES AND FIELD VERIFY ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO THE EXISTING BUILDING AT ALL TIMES. UTILITY SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE CONSTRUCTION MANAGER.
- CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY DEMOLITION PERMITS.
- THE CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE TRUCKS AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
- CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC., THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES OR PRIOR TO ANY FURTHER DEMOLITION. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- THE CONTRACTOR SHALL USE DUE CARE IN HAULING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC.
- DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE CONSTRUCTION MANAGER.
- CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
- CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAULING OF PAVEMENT MATERIALS SHALL BE LIMITED TO THE ROADWAY AND DRIVEWAYS, DRIVEWAYS, ROADWAYS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
- DEWATERING SHOULD BE ANTICIPATED AND INCLUDED. DEWATERING SHALL BE DONE IN ACCORDANCE WITH LOCAL AND REGIONAL REQUIREMENTS.

EARTHWORK NOTES

- GENERAL
 - ALL EARTHWORK OPERATIONS TO CONFORM TO GEOTECHNICAL RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE.
 - ANY QUANTITIES IN THE BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTOR'S USE IN DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRISSE HIMSELF/HERSELF OF ALL SITE CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AS LUMP SUM FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE ALLOWED.
 - THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE AND SUBGRADE ELEVATIONS (AS NOTED) AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC., MUST BE ACCOUNTED FOR.
 - THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION AND PREVENT STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. THE FAILURE TO PROVIDE POSITIVE DRAINAGE WILL NEGATE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.
 - PLANS FOR THE SITE DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED AND APPROVED PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES AND THE PLACEMENT OF SILT AND FILTER FENCING, ETC., TO PROTECT ADJACENT PROPERTY, ETC., SHALL OCCUR BEFORE GRADING BEGINS.
 - PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL ERECT A CONSTRUCTION FENCE AROUND ANY TREE DESIGNATED TO BE PRESERVED. SAID FENCE SHALL BE PLACED IN A CIRCLE AROUND THE TREE AND THE DIAMETER OF WHICH SHALL BE SUCH THAT THE ENTIRE CROWN ZONE (EXTENT OF FURTHEST EXTENDING BRANCHES) SHALL BE WITHIN THE FENCE LIMITS. THE EXISTING GRADE WITHIN THE FENCED AREA SHALL NOT BE DISTURBED.
 - IF LANDSCAPE PLANTINGS ARE WITHIN OR ADJACENT TO AREAS WHERE LIME STABILIZATION OCCURS, CONTRACTOR SHALL FULLY REMOVE SOIL CONTAINING LIME STABILIZATION AND REPLACE WITH HIGH QUALITY PLANTING SOIL.
- TOPSOIL EXCAVATION INCLUDES:
 - EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED EARTH FILL MATERIAL. EXISTING VEGETATION SHALL BE REMOVED PRIOR TO STRIPPING TOPSOIL OR FILLING AREAS.
 - PLACEMENT OF EXCAVATED MATERIAL IN OWNER-DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED AND THOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL. PROVIDE NECESSARY EROSION CONTROL MEASURES FOR STOCKPILE.
 - TOPSOIL STOCKPILED FOR RESPREAD SHALL BE FREE OF CLAY AND SHALL NOT CONTAIN ANY OF THE TRANSITIONAL MATERIAL BETWEEN THE TOPSOIL AND CLAY. THE TRANSITIONAL MATERIAL SHALL BE USED IN NON-STRUCTURAL FILL AREAS OR DISPOSED OF OFF-SITE.
 - TOPSOIL RESPREAD SHALL INCLUDE HAULING AND SPREADING OF TOPSOIL DIRECTLY OVER AREAS TO BE LANDSCAPED WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE OWNER.
- EARTH EXCAVATION INCLUDES:
 - EXCAVATION OF SUBSURFACE MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL. THE EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.1 FEET OF THE PLAN SUBGRADE ELEVATIONS WHILE MAINTAINING PROPER DRAINAGE. THE TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIALS SHALL "BALANCE" DURING THE FINISH GRADING OPERATION.
 - PLACEMENT OF SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL IN ORDER TO ACHIEVE THE FINISHED GRADE ELEVATIONS TO WITHIN A TOLERANCE OF 0.1 FEET. THE FILL MATERIALS SHALL BE PLACED IN LOOSE LIFTS THAT SHALL NOT EXCEED EIGHT (8) INCHES IN THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE REQUIRED COMPACTION.
 - STRUCTURAL FILL MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE SITE NOT REQUIRING STRUCTURAL FILL, WITHIN SIX (6) INCHES OF THE PLAN FINISHED GRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL, HOWEVER, THIS MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY DIRECTED BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.
 - COMPACTION OF SUITABLE MATERIALS SHALL BE TO AT LEAST 93% OF THE MODIFIED PROCTOR DRY DENSITY WITHIN PROPOSED PAVEMENT AREAS, SIDEWALK, ETC. COMPACTION SHALL BE AT LEAST 95% OF THE MODIFIED PROCTOR WITHIN PROPOSED BUILDING PAD AREAS OR AS RECOMMENDED BY THE GEOTECHNICAL REPORT.
 - UNSUITABLE MATERIAL: UNSUITABLE MATERIALS SHALL BE CONSIDERED MATERIAL THAT IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION, AND IS ENCOUNTERED BELOW NORMAL

TOPSOIL DEPTHS AND THE PROPOSED SUBGRADE ELEVATION. THE DECISION TO REMOVE SAID MATERIAL AND TO WHAT EXTENT SHALL BE MADE BY THE GEOTECHNICAL ENGINEER OR SOILS TESTING AGENCY WITH THE CONCURRENCE OF THE OWNER.

5. MISCELLANEOUS. THE CONTRACTOR SHALL:

- SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOIL AFTER COMPLETION OF UNDERGROUND IMPROVEMENTS.
- ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE OF THREE (3) FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH MATERIAL THAT HAS BEEN TREATED AND COMPACTED TO 95% OF SUB. PROCTOR MAXIMUM DAY DENSITY.
- ALL SANITARY SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.
- CONNECTIONS TO EXISTING SANITARY SEWER SYSTEM SHALL NOT BE DONE UNTIL AUTHORIZED BY THE ENGINEER.
- WATERMANS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT REQUIREMENTS, AS SPECIFIED IN THE STANDARDS FOR WATER AND SEWER CONSTRUCTION IN INDIANA.
- NO WATER LINE SHALL BE PLACED IN THE SAME TRENCH AS A SEWER LINE, EXCEPT UNDER SPECIAL CIRCUMSTANCES AND THEN ONLY UNDER THE FOLLOWING RULES:
 - IF NECESSARY PERMISSION SHALL BE OBTAINED FROM THE MUNICIPALITY IN WRITING PRIOR TO BEGINNING CONSTRUCTION.
 - THE BOTTOM OF A WATER LINE SHALL BE INSTALLED ON A SHELF A MINIMUM OF 18 INCHES ABOVE THE TOP OF THE SEWER AND 18 INCHES HORIZONTALLY AWAY FROM THE EDGE OF THE SEWER.
- ALL PIPE CONNECTION OPENINGS SHALL BE PRECAST WITH RESILIENT RUBBER WATER-TIGHT SLEEVES. THE BOTTOM OF THE MANHOLE SHALL HAVE A CONCRETE BENCH POURED TO FACILITATE SMOOTH FLOWS.
- FRAMES AND LIDS: ALL SANITARY SEWER MANHOLE FRAMES AND LIDS SHALL BE PER DETAIL SHEET, UNLESS OTHERWISE NOTED ON THE PLANS AND DETAILS. THE LIDS SHALL HAVE RECESSED (CONCEALED) PICK HOLE AND BE SELF-SEALING WITH AN "O" RING GASKET. THE JOINTS BETWEEN THE FRAME AND CONCRETE SECTION SHALL BE SEALED WITH A 1/2" RING.
- A MAXIMUM OF TWELVE (12) INCHES OF CONCRETE-ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. RINGS SHALL BE SEALED TOGETHER WITH BUTYL ROPE.
- CLEANINGS: ALL MANHOLES AND FITTINGS SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS, AND ALL VISIBLE LEAKS ELIMINATED BEFORE FINAL INSPECTION AND ACCEPTANCE.
- TESTING: DEFLECTION, AIR, AND LEAKAGE TESTING WILL BE REQUIRED. THE PROCEDURE AND ALLOWABLE TESTING LIMITS SHALL BE IN ACCORDANCE WITH THE TEN STATE STANDARDS AND THE FOLLOWING:
 - 327 IAC 3-6-19 states that (a) A deflection test shall be performed on each flexible pipe following the placement of the pipe. The test shall be performed with a minimum of two feet of positive head. The rate of withdrawal of five percent (5%) or greater; (c) The diameter of the rigid ball or mandrel used for a deflection test shall be no less than ninety-five (95%) of the base inside diameter of the pipe to be tested dependent on what is specified in the corresponding ASTM standard. The test shall not be performed with the aid of a mechanical pulling device.
 - 327 IAC 3-6-19 (d) All gravity sewer pipe shall be tested using one of the following leakage test types: (1) hydrostatic testing shall be performed with a minimum of two feet of positive head. The rate of withdrawal or infiltration shall not exceed two hundred (200) gallons per inch of pipe diameter per linear mile per day; (2) An air test shall conform to one of the following methods: ASTM C288-90, ASTM C924, or ASTM F1417-92.
- TESTING THE ALIGNMENT/STRAIGHTNESS SHALL BE IN ACCORDANCE WITH MUNICIPAL STANDARDS.
- TELEVISION: IF REQUIRED BY THE MUNICIPALITY, ALL SANITARY SEWERS SHALL BE TELEVIEWED, AND A COPY OF THE TAPE AND A WRITTEN REPORT SHALL BE SUBMITTED AND REVIEWED BY THE MUNICIPALITY BEFORE FINAL ACCEPTANCE. THE REPORT SHALL INCLUDE STIB LOCATION AS WELL AS A DESCRIPTION OF ALL DEFECTS, WATER LEVEL, LEAKS, AND LENGTHS. IDENTIFY MANHOLE TO MANHOLE BOTH VERBALLY AND ON-SCREEN USING MANHOLE NUMBERS FROM APPROVED PLANS. ORDNOR OF WRITTEN REPORT SHALL BE THE SAME AS THE VIDEOTAPES.
- TEST RESULTS: IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE CAUSE OR CAUSES OF THE DEFECT AND REPAIR, OR REPLACE ALL MATERIALS WORKING TO BE REPAIRED. THE REPAIR SHALL BE NECESSARY TO CONFORM TO THE TEST RESULTS.
- CERTIFICATION: CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING." ASTM STANDARDS D-2241, AS APPROPRIATE FOR THE PIPE, TO BE USED. TESTS SHALL ALSO BE CONDUCTED TO DEMONSTRATE JOINT PERFORMANCE AT FIVE (5) PERCENT MAXIMUM DIAMETRIC DEFLECTION OF THE SPIGOT.
- IF CONFLICT ARISES BETWEEN MUNICIPAL STANDARDS AND SANITARY SEWER NOTES, THE MORE STRINGENT SHALL APPLY.
- ALL SANITARY SEWER LINES SHALL BE PVC MEETING ASTM D-3034 STANDARDS AND JOINTS MEETING ASTM D-3212. ALL SANITARY MANHOLES TO BE CONCRETE AND MEET MANHOLE DESIGN SPECIFICATION OF ASTM C-478 AND JOINT SPECIFICATIONS OF ASTM C-443.

PAVING NOTES

- GENERAL
 - PAVING WORK INCLUDES FINAL SUBGRADE SHAPING, PREPARATION, AND COMPACTION; PLACEMENT OF SUBBASE OR BASE COURSE MATERIALS; BITUMINOUS INTERMEDIATE AND/OR SURFACE COURSES; FINISHING, FINISHING, AND CURING; CONCRETE PAVEMENT, CURBS, AND WALKS; AND FINAL CLEAN-UP AND ALL RELATED WORK.
 - SUBGRADE PREPARATION
 - EARTHWORK FOR PROPOSED PAVEMENT SUBGRADE SHALL BE FINISHED TO WITHIN 0.1 FOOT, PLUS OR MINUS OF PLAN ELEVATION. THE CONTRACTOR SHALL SATISFY HIMSELF THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED AND THAT THE FINISH TOP SUBGRADE ELEVATION HAS BEEN GRADED WITHIN TOLERANCES ALLOWED IN THESE SPECIFICATIONS, UNLESS THE CONTRACTOR ADVISES THE ENGINEER IN WRITING PRIOR TO FINE GRADING FOR BASE COURSE CONSTRUCTION. IT IS UNDERSTOOD THAT HE/SHE HAS APPROVED AND ACCEPTS THE RESPONSIBILITY FOR THE SUBGRADE.
 - AFTER STRIPPING TO THE PROPOSED SUBGRADE LEVEL, THE BUILDING AND PARKING AREA SHOULD BE PROOF-ROLLED WITH A TANDEM AXLE DUMP TRUCK OR SIMILAR HEAVY RUBBER Tired VEHICLE TYPICALLY WITH AN AXIAL LOAD GREATER THAN NINE (9) TONS OR MEETING SPECIFICATIONS OUTLINED IN INDOT OAS ITEM 204 FOR ROADWAY SUBGRADE COMPACTION AND PROOF-ROLLING.
 - MAXIMUM DEFLECTION ALLOWED IN ISOLATED AREAS MAY BE ONE (1) INCH IF NO DEFLECTION OCCURS THROUGH THE MAIN BODY OF THE AREA.
 - PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE BASE MATERIAL, THE FINISHED CURB AND GUTTER SHALL BE FINISHED TO WITHIN 0.04 FEET (1/2 INCH) OF FINAL SUBGRADE ELEVATION, TO A POINT TWO (2) FEET BEYOND THE BACK OF THE CURB, SO AS TO ENSURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS FOR EXCESS QUANTITY OF BASE MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE HONORED.
 - PRIOR TO PLACEMENT OF THE BASE COURSE, THE SUBGRADE SHALL BE APPROVED BY THE TESTING ENGINEER.
- CONCRETE WORK
 - ALL EXTERIOR CONCRETE SHALL BE PORTLAND CEMENT CONCRETE CLASS S1 OR PV. CONCRETE SHALL BE A MINIMUM OF SIX (6) BAG MIX AND SHALL DEVELOP A MINIMUM OF 4,000 PSI COMPRESSIVE STRENGTH AT TWENTY-EIGHT (28) DAYS. ALL CONCRETE SHALL BE BROOM-FINISHED PERPENDICULAR TO THE DIRECTION OF TRAFFIC.
 - CONCRETE CURB AND/OR COMBINATION CURB AND GUTTER SHALL BE OF THE TYPE SHOWN ON THE PLANS. THE CONTRACTOR IS CAUTIONED TO REFER TO THE CONSTRUCTION STANDARDS AND THE PAVEMENT CROSS SECTION TO DETERMINE THE GUTTER FLAG THICKNESS AND THE AGGREGATE BASE COURSE THICKNESS BENEATH THE CURB AND GUTTER. PRE-MOLDED FIBER EXPANDED JOINTS 3/4"-INCH BY 18"-INCH EPOXY-COATED STEEL DOWEL BARS, SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. SAWED OR FORMED CONTRACTION JOINTS SHALL BE PROVIDED AT NO GREATER THAN TEN TO TWENTY-FIVE FOOT INTERVALS BETWEEN EXPANSION JOINTS. NO HONEY-COMBING OF THE CURB AND GUTTER WILL BE ACCEPTED.
 - CURBS SHALL BE DEPRESSSED AT LOCATIONS WHERE PUBLIC WALKS INTERSECT CURB LINES AND OTHER LOCATIONS, AS DIRECTED, FOR THE PURPOSE OF PROVIDING ACCESSIBILITY.
 - THE CURBS SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE.
 - CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE SCORED JOINTS AT MAXIMUM 6-FOOT INTERVALS AND 1/2"-INCH PRE-MOLDED FIBER EXPANSION JOINTS AT 20-FOOT MAXIMUM INTERVALS AND ADJACENT TO CONCRETE CURBS, DRIVEWAYS, FOUNDATIONS, AND OTHER STRUCTURES.
 - CONCRETE DRIVEWAY APRONS SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE 6"-INCH BY 6"-INCH BY 6"-INCH DRIVEWAYS. PROVIDE 1/2"-INCH PRE-MOLDED FIBER EXPANSION JOINT ADJACENT TO CURBS AND CONCRETE SIDEWALKS. PROVIDE SAWED OR FORMED CONTRACTIONS JOINT AT MID-POINT AND 15-FOOT MAXIMUM.
 - STANDARD REINFORCED CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. SAWED OR FORMED CONTRACTION EXPANSION JOINTS SHALL BE AS SHOWN ON THE PLANS.
 - CONCRETE CURING AND PROTECTION SHALL BE PER INDOT STANDARDS. TWO (2) COATS OF INDOT APPROVED CURING AGENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES.
 - THE COST OF AGGREGATE BASE OR SUBBASE UNDER CONCRETE WORK SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE CONCRETE ITEM.
- FLEXIBLE PAVEMENT
 - THE PAVEMENT MATERIALS FOR BITUMINOUS STREETS, PARKING LOTS, AND DRIVE AISLES SHALL BE AS DETAILED ON THE PLANS. UNLESS OTHERWISE SHOWN ON THE PLANS, THE FLEXIBLE PAVEMENTS SHALL CONSIST OF AGGREGATE BASE, ASPHALT INTERMEDIATE COURSE TYPE 2, AND ASPHALT SURFACE COURSE TYPE 1. OF THE THICKNESS AND MATERIALS SPECIFIED ON THE PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE MINIMUM COMPACTED THICKNESS.
 - ALL TRAFFIC SHALL BE KEPT OFF THE COMPLETED AGGREGATE BASE UNTIL THE INTERMEDIATE COURSE IS LAID.
 - PRIOR TO PLACEMENT OF THE SURFACE COURSE, THE INTERMEDIATE COURSE SHALL BE CLEANED AND TACK-COATED IF DUSTY OR DIRTY. ALL DAMAGED AREAS IN THE INTERMEDIATE COURSE, BASE, OR CURB SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER PRIOR TO LAYING THE SURFACE COURSE. THE CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND STAFF NECESSARY, INCLUDING THE USE OF POWER BROOMS IF REQUIRED BY THE OWNER, TO PREPARE THE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. THE TACK COAT SHALL BE UNIFORMLY APPLIED TO THE BINDER COURSE AT A RATE OF 0.05 TO 0.10 GALLONS PER SQUARE YARD. TACK COAT SHALL BE AS PER INDOT STANDARDS.
 - SEAMS IN SURFACE AND BASE COURSES SHALL BE STAGGERED A MINIMUM OF 6 INCHES.
 - PG BINDER FOR SURFACE COURSE SHALL BE 70-22.
- TESTING AND FINAL ACCEPTANCE.
 - THE CONTRACTOR SHALL FOLLOW THE QUALITY CONTROL TESTING PROGRAM FOR CONCRETE AND PAVEMENT MATERIALS ESTABLISHED BY THE ENGINEER.
 - PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR, WHEN REQUIRED BY THE MUNICIPALITY, SHALL OBTAIN SPECIMENS OF THE INTERMEDIATE COURSE WITH A CORE DRILL WHERE DIRECTED, FOR THE PURPOSE OF THICKNESS VERIFICATION.
 - WHEN REQUIRED BY THE MUNICIPALITY, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF THE FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE WITH A CORE DRILL WHERE DIRECTED IN ORDER TO CONFIRM THE PLAN THICKNESS. DEFICIENCIES IN THICKNESS SHALL BE ADJUSTED FOR BY THE METHOD REQUIRED BY INDOT STANDARDS.
 - FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND CHECKED REQUIREMENTS LISTED ABOVE.
 - ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE MUNICIPAL CODE. WHEN CONFLICTS ARISE BETWEEN MUNICIPAL CODE AND GENERAL NOTES, THE MORE STRINGENT SHALL TAKE PRECEDENCE.

SANITARY SEWER NOTES

- ALL UNSUITABLE MATERIALS SHALL BE REMOVED ABOVE THE PROPOSED SANITARY SEWER AND REPLACED WITH COMPACTED CRUSHED GRAVEL OR STONE, AS PER INDOT STANDARDS.
- ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE OF THREE (3) FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH MATERIAL THAT HAS BEEN TREATED AND COMPACTED TO 95% OF SUB. PROCTOR MAXIMUM DAY DENSITY.
- ALL SANITARY SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.
- CONNECTIONS TO EXISTING SANITARY SEWER SYSTEM SHALL NOT BE DONE UNTIL AUTHORIZED BY THE ENGINEER.
- WATERMANS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT REQUIREMENTS, AS SPECIFIED IN THE STANDARDS FOR WATER AND SEWER CONSTRUCTION IN INDIANA.
- NO WATER LINE SHALL BE PLACED IN THE SAME TRENCH AS A SEWER LINE, EXCEPT UNDER SPECIAL CIRCUMSTANCES AND THEN ONLY UNDER THE FOLLOWING RULES:
 - IF NECESSARY PERMISSION SHALL BE OBTAINED FROM THE MUNICIPALITY IN WRITING PRIOR TO BEGINNING CONSTRUCTION.
 - THE BOTTOM OF A WATER LINE SHALL BE INSTALLED ON A SHELF A MINIMUM OF 18 INCHES ABOVE THE TOP OF THE SEWER AND 18 INCHES HORIZONTALLY AWAY FROM THE EDGE OF THE SEWER.
- ALL PIPE CONNECTION OPENINGS SHALL BE PRECAST WITH RESILIENT RUBBER WATER-TIGHT SLEEVES. THE BOTTOM OF THE MANHOLE SHALL HAVE A CONCRETE BENCH POURED TO FACILITATE SMOOTH FLOWS.
- FRAMES AND LIDS: ALL SANITARY SEWER MANHOLE FRAMES AND LIDS SHALL BE PER DETAIL SHEET, UNLESS OTHERWISE NOTED ON THE PLANS AND DETAILS. THE LIDS SHALL HAVE RECESSED (CONCEALED) PICK HOLE AND BE SELF-SEALING WITH AN "O" RING GASKET. THE JOINTS BETWEEN THE FRAME AND CONCRETE SECTION SHALL BE SEALED WITH A 1/2" RING.
- A MAXIMUM OF TWELVE (12) INCHES OF CONCRETE-ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. RINGS SHALL BE SEALED TOGETHER WITH BUTYL ROPE.
- CLEANINGS: ALL MANHOLES AND FITTINGS SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS, AND ALL VISIBLE LEAKS ELIMINATED BEFORE FINAL INSPECTION AND ACCEPTANCE.
- TESTING: DEFLECTION, AIR, AND LEAKAGE TESTING WILL BE REQUIRED. THE PROCEDURE AND ALLOWABLE TESTING LIMITS SHALL BE IN ACCORDANCE WITH THE TEN STATE STANDARDS AND THE FOLLOWING:
 - 327 IAC 3-6-19 states that (a) A deflection test shall be performed on each flexible pipe following the placement of the pipe. The test shall be performed with a minimum of two feet of positive head. The rate of withdrawal of five percent (5%) or greater; (c) The diameter of the rigid ball or mandrel used for a deflection test shall be no less than ninety-five (95%) of the base inside diameter of the pipe to be tested dependent on what is specified in the corresponding ASTM standard. The test shall not be performed with the aid of a mechanical pulling device.
 - 327 IAC 3-6-19 (d) All gravity sewer pipe shall be tested using one of the following leakage test types: (1) hydrostatic testing shall be performed with a minimum of two feet of positive head. The rate of withdrawal or infiltration shall not exceed two hundred (200) gallons per inch of pipe diameter per linear mile per day; (2) An air test shall conform to one of the following methods: ASTM C288-90, ASTM C924, or ASTM F1417-92.
- TESTING THE ALIGNMENT/STRAIGHTNESS SHALL BE IN ACCORDANCE WITH MUNICIPAL STANDARDS.
- TELEVISION: IF REQUIRED BY THE MUNICIPALITY, ALL SANITARY SEWERS SHALL BE TELEVIEWED, AND A COPY OF THE TAPE AND A WRITTEN REPORT SHALL BE SUBMITTED AND REVIEWED BY THE MUNICIPALITY BEFORE FINAL ACCEPTANCE. THE REPORT SHALL INCLUDE STIB LOCATION AS WELL AS A DESCRIPTION OF ALL DEFECTS, WATER LEVEL, LEAKS, AND LENGTHS. IDENTIFY MANHOLE TO MANHOLE BOTH VERBALLY AND ON-SCREEN USING MANHOLE NUMBERS FROM APPROVED PLANS. ORDNOR OF WRITTEN REPORT SHALL BE THE SAME AS THE VIDEOTAPES.
- TEST RESULTS: IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE CAUSE OR CAUSES OF THE DEFECT AND REPAIR, OR REPLACE ALL MATERIALS WORKING TO BE REPAIRED. THE REPAIR SHALL BE NECESSARY TO CONFORM TO THE TEST RESULTS.
- CERTIFICATION: CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING." ASTM STANDARDS D-2241, AS APPROPRIATE FOR THE PIPE, TO BE USED. TESTS SHALL ALSO BE CONDUCTED TO DEMONSTRATE JOINT PERFORMANCE AT FIVE (5) PERCENT MAXIMUM DIAMETRIC DEFLECTION OF THE SPIGOT.
- IF CONFLICT ARISES BETWEEN MUNICIPAL STANDARDS AND SANITARY SEWER NOTES, THE MORE STRINGENT SHALL APPLY.
- ALL SANITARY SEWER LINES SHALL BE PVC MEETING ASTM D-3034 STANDARDS AND JOINTS MEETING ASTM D-3212. ALL SANITARY MANHOLES TO BE CONCRETE AND MEET MANHOLE DESIGN SPECIFICATION OF ASTM C-478 AND JOINT SPECIFICATIONS OF ASTM C-443.

STORM SEWER NOTES

- STORM SEWER PIPE: ALL STORM SEWER PIPE SHALL BE RCP, UNLESS OTHERWISE NOTED ON THE PLANS, IN ACCORDANCE WITH THE FOLLOWING:

PLAN CODE	MATERIAL
12"-66"	RCP REINFORCED CONCRETE PIPE (ASTM C-76)
< 12"	PVC SDR-35, ASTM D-3034

 REFER TO PLANS FOR PIPE SIZES.

FOR PIPE SIZES 12" TO 54" USE SEWER CLASS III CONCRETE PIPE. FOR COVER MANHOLES AND RISERS SMALLER THAN 9" USE CLASS II CONCRETE PIPE. FOR COVER BETWEEN 9" TO 42" USE CLASS III CONCRETE PIPE. FOR COVER SIZES GREATER THAN 54" WITH COVER BETWEEN 1'-9" USE CLASS II CONCRETE PIPE. FOR COVER GREATER THAN 9' BUT LESS THAN 13', USE CLASS III CONCRETE PIPE.
- BAND-SEAL OR SIMILAR COUPLING SHALL BE USED WHEN JOINING STORM SEWER PIPES OF DISSIMILAR MATERIALS.
- ALL FOOTING DRAIN DISCHARGE PIPES AND DOWN SPOUTS SHALL DISCHARGE TO THE GROUND/STORM SEWER SYSTEM.
- CONSTRUCTION: ALL STORM SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.
- COVER: THE CONTRACTOR SHALL MAINTAIN AT LEAST TWO (2) FEET OF COVER OVER THE TOP OF SHALLOW PIPES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL MEET OVER ANY PIPES THAT HAVE LESS THAN TWO (2) FEET OF COVER DURING CONSTRUCTION UNTIL THE AREA IS FINAL GRADED OR PAVED.
- STRUCTURES: MANHOLE, CATCH BASIN, AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR MONOLITHIC CONCRETE. MANHOLES AND CATCH BASINS SHALL BE A MINIMUM OF FOUR (4) FEET IN DIAMETER UNLESS OTHERWISE SPECIFIED ON THE PLANS. STRUCTURE JOINTS SHALL BE SEALED WITH "O" RING OR BUTYL ROPE. A MAXIMUM OF TWELVE (12) INCHES OF ADJUSTING RINGS SHALL BE USED.
- A CONCRETE BENCH TO DIRECT FLOWS SHALL BE CONSTRUCTED IN THE BOTTOM OF ALL INLETS AND MANHOLES.
- THE FRAME, GRATE, AND/OR CLOSED LID SHALL BE CAST IRON OF THE STYLE SHOWN ON THE PLANS.
- CLEANING: THE STORM SEWER SYSTEM SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING.
- MANHOLES, CATCH BASINS, INLETS, FRAMES, GRATES, AND OTHER STRUCTURES SHALL BE CONSTRUCTED OF THE TYPE, STYLE, AND SIZE AS SET FORTH WITH THE ORDINANCES AND STANDARDS OF THE MUNICIPALITY.
- ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE MUNICIPAL CODE. WHEN CONFLICTS ARISE BETWEEN MUNICIPAL CODE AND GENERAL NOTES, THE MORE STRINGENT SHALL TAKE PRECEDENCE.
- WHEN NOTED ON PLANS OR APPROVED BY ENGINEER, HIGH-DENSITY POLYETHYLENE PIPE (HDPE) IN GENERAL CONFORMANCE WITH ASTM F2648 / F2648M MAY BE UTILIZED.

SIGNING AND PAVEMENT MARKING NOTES

- ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARDS.
- SIGNS: SIGNS SHALL BE CONSTRUCTED OF 0.080-INCH THICK FLAT ALUMINUM PANELS WITH REFLECTORIZED LEGENDS ON THE FACE. LEGEND SHALL BE IN ACCORDANCE WITH THE MUTCD.
- POSTS: SIGN POSTS SHALL BE SLOW GALVANIZED STEEL PIPE IN ACCORDANCE WITH ASTM A 53 OR ASTM F 1083. USE STANDARD WEIGHT, SCHEDULE 40 PIPE PER INDOT STANDARDS.
- SIGNS AND POSTS SHALL BE INSTALLED IN ACCORDANCE WITH INDOT STANDARDS.
- PAVEMENT MARKINGS: ALL PAVEMENT MARKINGS IN THE ROADWAY LIMITS, SUCH AS STOP



DEMOLITION NOTES

GENERAL DEMOLITION NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED.
- CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
- IF DEMOLITION OR CONSTRUCTION ON SITE WILL INTERFERE WITH THE ADJACENT PROPERTY OWNER'S TRAFFIC FLOW, THE CONTRACTOR SHALL COORDINATE WITH ADJACENT PROPERTY OWNER, TO MINIMIZE THE IMPACT ON TRAFFIC FLOW. TEMPORARY RE-ROUTING OF TRAFFIC IS TO BE ACCOMPLISHED BY USING INDOT APPROVED TRAFFIC BARRICADES, BARRELS, AND/OR CONES. TEMPORARY SIGNAGE AND FLAGMEN MAY BE ALSO NECESSARY.
- CONTRACTOR SHALL NOT DEMOLISH ANYTHING OUTSIDE THE OWNERS LEASE/PROPERTY LINE UNLESS SPECIFICALLY MENTIONED ON THIS SHEET.
- QUANTITIES DEPICTED ON THIS SHEET SHALL SERVE AS A GUIDE ONLY. CONTRACTOR TO VERIFY ALL DEMOLITION QUANTITIES.
- PRIOR TO BIDDING AND CONSTRUCTION, CONTRACTOR TO REFER TO OWNER PROVIDED PHASE I ENVIRONMENTAL SITE ASSESSMENT AND ASBESTOS REPORT FOR SITE SPECIFIC CONDITIONS AND CONSIDERATIONS.
- CONTRACTOR SHALL BEGIN CONSTRUCTION OF ANY LIGHT POLE BASES FOR RELOCATED LIGHT FIXTURES AND RELOCATION OF ELECTRICAL SYSTEM AS SOON AS DEMOLITION BEGINS. CONTRACTOR SHALL BE AWARE THAT INTERRUPTION OF POWER TO ANY LIGHT POLES OR SIGNS SHALL NOT EXCEED 24 HOURS
- EROSION CONTROL MUST BE ESTABLISHED PRIOR TO ANY WORK ON SITE INCLUDING DEMOLITION. REFER TO THE EROSION CONTROL SHEET.
- REFER TO GEOTECHNICAL REPORT PROVIDED BY OTHERS FOR ALL SUBSURFACE INFORMATION.

DEMOLITION NOTES

THE EXTENT OF SITE DEMOLITION WORK IS AS SHOWN ON THE CONTRACT DOCUMENTS AND AS SPECIFIED HEREIN. SEE ARCHITECTURAL DRAWINGS FOR LIMITS AND PROPER DEMOLITION OF EXISTING BUILDING. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICE NECESSARY TO COMPLETE THE WORK. DEMOLITION INCLUDES, BUT IS NOT LIMITED TO, REMOVAL AND DISPOSAL OFFSITE OF THE FOLLOWING ITEMS:

- SIDEWALK AND ON-SITE PAVEMENT
- BUILDINGS, FOUNDATIONS, AND SUPPORTING WALLS AND SLABS
- DEBRIS AND FOUNDATIONS FROM ALL DEMOLISHED STRUCTURES
- ALL PAVEMENT TO BE REMOVED ADJACENT TO PAVEMENT THAT IS TO REMAIN SHALL BE SAWCUT FULL DEPTH AT THE EDGES PRIOR TO REMOVAL TO OBTAIN A "CLEAN" JOINT WHERE IT ABUTS NEW CURB OR PAVEMENT.

CONTRACTOR MUST RECEIVE APPROVAL FROM CIVIL ENGINEER AND GEOTECHNICAL ENGINEER FOR THE MATERIAL TYPE AND USE IF CONTRACTOR DESIRES TO REUSE DEMOLISHED SITE PAVEMENT AS STRUCTURAL FILL.

DISPOSAL OF DEMOLISHED MATERIALS

REMOVE FROM SITE DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. BURNING OF REMOVED MATERIALS FROM DEMOLISHED STRUCTURES WILL NOT BE PERMITTED ON SITE. TRANSPORT MATERIALS REMOVED FROM DEMOLISHED STRUCTURES AND DISPOSE OF OFF SITE IN A LEGAL MANNER.

LANDSCAPE PROTECTION AND REMOVAL

SEE LANDSCAPE PLANS FOR INFORMATION ON LANDSCAPE AND TREE PROTECTION, PRESERVATION AND REMOVAL.

UTILITY SERVICES

EXISTING UTILITIES, WHICH DO NOT SERVICE STRUCTURES BEING DEMOLISHED, ARE TO BE KEPT IN SERVICE AND PROTECTED AGAINST DAMAGE DURING DEMOLITION OPERATIONS. CONTRACTOR SHALL ARRANGE FOR SHUT-OFF OF UTILITIES SERVING STRUCTURES TO BE DEMOLISHED. CONTRACTOR IS RESPONSIBLE FOR TURNING OFF, DISCONNECTING, AND SEALING INDICATED UTILITIES BEFORE STARTING DEMOLITION OPERATIONS. EXISTING UTILITIES TO BE ABANDONED ARE TO BE CAPPED AT BOTH ENDS AND FILLED WITH FLOWABLE FILL OR APPROVED EQUAL. ALL UNDERGROUND UTILITIES TO BE REMOVED ARE TO BE BACKFILLED WITH ENGINEERED FILL OR SELECT EXCAVATED MATERIAL, AS APPROVED BY THE GEOTECHNICAL ENGINEER, TO 95% OF MODIFIED PROCTOR DENSITY WITHIN PAVED AREAS AND TO 90% OF MODIFIED PROCTOR DENSITY FOR GREEN SPACE AREAS, IN ACCORDANCE WITH THE EARTHWORK SPECIFICATIONS. ALL PRIVATE UTILITIES (ELECTRIC, CABLE, TELEPHONE, FIBER OPTIC, GAS) SHALL BE REMOVED AND RELOCATED PER THE UTILITY OWNER AND THE LOCAL MUNICIPALITY'S REQUIREMENTS.

UTILITY PROTECTION

UNDERGROUND UTILITIES SHOWN ARE BASED ON ATLASSES AND AVAILABLE INFORMATION PRESENTED AT THE TIME OF SURVEY. CONTRACTOR SHOULD CALL INDIANA 811 (811 OR 800-382-5544) TO COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE ORDERING MATERIALS OR COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY. CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UNDERGROUND AND OVERHEAD UTILITIES DURING CONSTRUCTION. UTILITY PROTECTION ABOVE IS TO BE COORDINATED WITH THE RESPECTIVE UTILITY OWNER AND AS DIRECTED BY THE GOVERNING MUNICIPALITY. DAMAGED CABLES/CONDUITS SHALL BE REPLACED IMMEDIATELY. ALL EXISTING STRUCTURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PROCESS. ALL DAMAGED STRUCTURES SHALL BE REPLACED IN-KIND AND THEIR REPLACEMENT COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. PROPER NOTIFICATION TO THE OWNERS OF THE EXISTING UTILITIES SHALL BE MADE AT LEAST 48 HOURS BEFORE CONSTRUCTION COMMENCES.

POLLUTION CONTROLS

USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING IN THE AIR TO THE LOWEST LEVEL. COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. SEE EROSION CONTROL SHEETS FOR FURTHER EROSION CONTROL REQUIREMENTS.

FILLING BASEMENTS AND VOIDS

COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF STRUCTURES TO THE FINAL LINES AND GRADES SHOWN ON THE CONTRACT DOCUMENTS. BACKFILL MATERIAL SHALL BE INDOT APPROVED CRUSHED LIMESTONE OR APPROVED EQUAL. USE SATISFACTORY SOIL MATERIALS CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER PRIOR TO PLACEMENT OF FILL MATERIALS. ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH AND DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 8" IN LOOSE DEPTH. COMPACT EACH LAYER AT OPTIMUM MOISTURE CONTENT OF FILL MATERIAL TO 95% OF MODIFIED PROCTOR DENSITY UNLESS SUBSEQUENT EXCAVATION FOR NEW WORK IS REQUIRED.

SITE NOTES

- ALL DIMENSIONS REFER TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS, DOOR LOCATIONS, PRIOR TO ORDERING MATERIALS.
- RADI ADJACENT TO PARKING STALL AND NOT DIMENSIONED ON THIS PLAN SHALL BE 3- FEET, TYPICAL.
- REFER TO ARCHITECTURAL PLANS FOR MONUMENT SIGN DETAILS. SEE MEP PLANS FOR SITE ELECTRICAL DRAWINGS.
- ALL PROPOSED ON-SITE STRIPING SHALL BE PAINTED UNLESS OTHERWISE NOTED.

EROSION CONTROL NOTES

TEMPORARY EROSION CONTROL NOTES

- THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
 - ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED EROSION CONTROL PLAN REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST, OR ARBORIST, AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT AND THE DRAINAGE UTILITY DEPARTMENT. MINOR CHANGES OR ADDITIONAL CONTROL MEASURES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL PLACE EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S150 OR APPROVED EQUAL) ON ALL SITE AREAS WITH SLOPES GREATER THAN 4:1, AND IN THE BOTTOM AND SIDE SLOPES OF ALL SWALES.
 - PRIOR TO FINAL ACCEPTANCE, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING SHALL BE DISPOSED OF IN APPROVED SPILL DISPOSAL SITES.
 - PERMANENT, FINAL PLANT COVERING OR STRUCTURES SHALL BE INSTALLED PRIOR TO FINAL ACCEPTANCE.
 - ALL CONTROL DEVICES THAT FUNCTION SIMILARLY TO SILT FENCE OR FIBER ROLLS MUST BE REPAIRED, REPLACED OR SUPPLEMENTED WITH EFFECTIVE CONTROLS WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES ONE-THIRD THE HEIGHT OF THE DEVICE. THESE REPAIRS MUST BE MADE WITHIN 24 HOURS OF THE RAINFALL EVENT OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
 - ALL SEDIMENT DELTAS AND DEPOSITS MUST BE REMOVED FROM SURFACE WATERS, DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. ALL AREAS WHERE SEDIMENT REMOVAL RESULTED IN EXPOSED SOIL MUST BE RESTABILIZED. THE REMOVAL AND STABILIZATION MUST TAKE PLACE IMMEDIATELY, BUT NO MORE THAN 7 DAYS AFTER THE RAINFALL EVENT UNLESS PRECLUDED BY LEGAL REGULATORY OR PHYSICAL ACCESS CONSTRAINTS. ALL REASONABLE EFFORTS MUST BE USED TO OBTAIN ACCESS. ONCE ACCESS IS OBTAINED, REMOVAL AND STABILIZATION MUST TAKE PLACE IMMEDIATELY, BUT NO MORE THAN 7 DAYS LATER. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL APPROPRIATE AUTHORITIES AND RECEIVING THE APPLICABLE PERMITS PRIOR TO CONDUCTING ANY WORK.
 - ACCUMULATIONS OF TRACKED AND DEPOSITED SEDIMENT MUST BE REMOVED FROM OFF-SITE PAVED SURFACES WITHIN 24 HOURS OR SOONER IF REQUIRED. SEDIMENT TRACKING MUST BE MINIMIZED BY THE APPROPRIATE MANAGEMENT PRACTICE, LIKE A DEDICATED SITE EXIT WITH AN AGGREGATE SURFACE OR DESIGNATED OFFSITE PARKING AREA. CONTRACTOR IS RESPONSIBLE FOR STREET SWEEPING AND/OR SCRAPING IF YOUR PRACTICES ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED FROM THE SITE.
 - SURFACE WATERS, DRAINAGE DITCHES AND CONVEYANCE SYSTEMS MUST BE INSPECTED FOR SEDIMENT DEPOSITS.
 - PUMPING SEDIMENT LADEN WATER INTO ANY STORMWATER FACILITY THAT IS NOT DESIGNATED TO BE A SEDIMENT TRAP, DRAINAGEWAY, OR OFFSITE AREA EITHER DIRECTLY OR INDIRECTLY WITHOUT FILTRATION IS PROHIBITED.
 - SOIL STOCKPILES SHALL NOT BE LOCATED IN A DRAINAGEWAY, FLOOD PLAIN AREA OR A DESIGNATED BUFFER, UNLESS OTHERWISE APPROVED. UNDER SPECIFIC CONDITIONS TO BE ESTABLISHED BY THE DIRECTOR OR ADMINISTRATOR.
 - STOCKPILES TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL BE PROVIDED WITH SECS MEASURES. MATERIAL IS TO BE HAULED OFF IMMEDIATELY AND LEGALLY IF NO STOCKPILE IS TO REMAIN IN PLACE.
 - ALL TEMPORARY SECS MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
 - WATER REMOVED FROM TRAPS, BASINS, AND OTHER WATER HOLDING DEPRESSIONS OR EXCAVATIONS MUST FIRST PASS THROUGH A SEDIMENT CONTROL AND/OR FILTRATION DEVICE WHEN DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION.
- NOTE: THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

GRADING NOTES

- CONTRACTOR TO VERIFY ALL EXISTING TOPOGRAPHY AND STRUCTURES ON THE SITE AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.
- ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
- ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR TO COORDINATE WITH EXCAVATION, LANDSCAPE AND PAVING SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FOR LANDSCAPE AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY ENSURE ADEQUATE CUT TO ESTABLISH SUBGRADE ELEVATIONS.
- NO EARTHEN SLOPE SHALL BE GREATER THAN 3:1, UNLESS OTHERWISE NOTED.
- MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS.
- MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS AND ACCESSIBLE ROUTES UNLESS OTHERWISE NOTED.
- WHEN NATURAL FLOW OF DRAINAGE IS AWAY FROM CURB, CONTRACTOR TO INSTALL REVERSE GUTTER PITCH.
- MATCH EXISTING ELEVATIONS AT THE PROPERTY LIMITS.
- ALL STOOPS OR PEDESTRIAN EGRESS POINTS FROM THE BUILDING(S) SHALL BE NO GREATER THAN 2% FOR THE FIRST 5'.

UTILITY NOTES

GENERAL UTILITY NOTES

- ALL WATER LINES SHALL BE PVC C900 DR-14, DI CI 52 OR HDPE DR11 PER INAW WATERMAIN INSTALLATION NOTES.
- ALL SANITARY SEWER LINES SHALL BE PVC MEETING, ASTM D-3034 SDR 26 EXCEPT FOR SANITARY SEWER THAT CROSSES ABOVE WATER MAIN, THIS PIPE SHALL BE AWWA C900 (UNLESS WATER MAIN CASING IS UTILIZED). PROVIDE 36" MINIMUM COVER (PER IDEM).
- CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
- ALL ELECTRIC AND TELEPHONE EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
- CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
- CONTRACTOR TO CALL INDIANA 811 (811 OR 800-382-5544) TO COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE ORDERING MATERIALS OR COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE ENGINEER AND THE OWNER/ DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION. THE MUNICIPALITY SHALL BE NOTIFIED OF ANY AND ALL CHANGES TO THE DESIGN PLANS.
- CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION, THIS IS TO INCLUDE, BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
- CONTRACTOR TO AVOID DISRUPTION OF ANY ADJACENT TENANT'S TRAFFIC OPERATIONS DURING INSTALLATION OF UTILITIES.
- ALL DIMENSIONS ARE TO CENTERLINE OF PIPE OR CENTER OF MANHOLE UNLESS NOTED OTHERWISE.
- SEE ARCHITECTURAL AND MEP PLANS FOR EXACT UTILITY CONNECTION LOCATIONS AT BUILDING.
- SEE DETAILS FOR LOCATING STORM STRUCTURES WITHIN THE CURB LINE.
- STORMWATER FACILITIES MUST BE FUNCTIONAL BEFORE BUILDING CONSTRUCTION BEGINS.

EXISTING LEGEND

○ BOLLARD	○ MISC LID	○ YARD LIGHT
⬇ CONTROL BENCHMARK	○ MONITOR WELL	○ SANITARY CLEANOUT
⊠ ROW MONUMENT	⊠ GAS MARKER	○ SANITARY MANHOLE
⬆ FLAG POLE	⊠ GAS METER	○ VENT PIPE
⊠ MAIL BOX	⊠ GAS VALVE	○ STORM CURB INLET
○ UTILITY POLE	⊠ AC UNIT	○ STORM INLET
○ POST	⊠ AREA LIGHT	○ STORM ROOF DRAIN
○ SOIL BORING	⊠ ELECTRICAL BOX	○ STORM DRAIN MANHOLE
⊠ HANDICAP SYMBOL	⊠ ELECTRICAL HAND HOLE	○ STORM YARD DRAIN
⊠ SIGN	⊠ ELECTRICAL METER	○ FIRE DEPT CONNECTION
⊠ CABLE MANHOLE	⊠ ELECTRICAL MANHOLE	○ FIRE HYDRANT
⊠ CABLE PEDESTAL	⊠ ELECTRICAL MARKER	○ IRRIGATION VALVE
⊠ TELEPHONE PEDESTAL	⊠ ELECTRICAL TRANSFORMER	○ POST INDICATOR VALVE
⊠ TELEPHONE HAND HOLE	⊠ GUY POLE/WIRE	○ WELL
⊠ TELEPHONE MARKER	⊠ POWER POLE	○ WATER METER
⊠ TELEPHONE MANHOLE	⊠ TRAFFIC SIGNAL POLE	○ WATER VALVE
⊠ FIBER OPTIC MAKER	⊠ TRAFFIC MANHOLE	○ TREE / STUMP
○ SWALE	○ TOP OF SLOPE	
○ FENCE LINE	○ TOP OF BANK	
○ SS - SANITARY SEWER	○ FB - UNDERGROUND FIBER OPTIC	
○ SD - STORM DRAIN	○ OH - OVERHEAD ELECTRICAL	
○ W - WATER LINE	○ GAS - UNDERGROUND GAS	
○ TREE LINE	○ TEL - UNDERGROUND TELEPHONE	

BENCHMARKS

ORIGINATING BENCHMARK: JOHNSON COUNTY BENCHMARK #18 - BRASS DISK AT SOUTHEAST CORNER OF COUNTY ROAD 100 NORTH AND BETTY LANE, LOCATED IN THE SOUTHEAST QUARTER OF SECTION 8, T12N, R5E
 NORTHING= 1547267.68
 EASTING= 237515.676
 ELEVATION=721.00

TEMPORARY BENCHMARKS: (LOCATIONS SHOWN ON SURVEY)

TBM #1 CONCRETE NAIL IN NORTH SIDE OF PAUL HAND BOULEVARD NEAR NORTHWEST CORNER OF SURVEY PARCEL
 NORTHING= 1561726.71
 EASTING= 213870.32
 ELEVATION=786.52

TBM #2 CONCRETE NAIL IN NORTH SIDE OF PAUL HAND BOULEVARD NEAR NORTHWEST CORNER OF NORTHEAST QUARTER OF SECTION 34
 NORTHING= 1561777.73
 EASTING= 218053.92
 ELEVATION=788.36

TBM #3 CONCRETE NAIL IN SOUTH SIDE OF PAUL HAND BOULEVARD JUST WEST OF ITS INTERSECTION WITH GRAHAM ROAD
 NORTHING=1561772.48
 EASTING= 217349.78
 ELEVATION=791.92

TBM #4 REBAR SET IN GRASSY KNOLL LOCATED 1080± SOUTH OF PAUL HAND BOULEVARD AND 1355± WEST OF GRAHAM ROAD
 NORTHING=1560687.81
 EASTING=216059.99
 ELEVATION=784.05

TBM #5 MAG NAIL IN EAST SIDE OF GRAHAM ROAD 2005± SOUTH OF ITS INTERSECTION WITH PAUL HAND BOULEVARD
 NORTHING= 1559781.77
 EASTING= 217434.23
 ELEVATION=776.19

TBM #6 TOP NORTH/NORTHEAST FLANGE BOLT ON FIRE HYDRANT AT NORTH END OF ESSEX DRIVE
 NORTHING=1557689.53
 EASTING=216071.89
 ELEVATION=725.65

Kimley»Horn

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Engineers - Project Managers
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 Ph. (844) 251-7823 www.quadplus.com



MALARKEY,IND FRANKLIN,IN
 PHASE 2 - FINAL BUILDOUT
 GENERAL NOTES

PROJ. NO.	170509000
DWG. NO.	2002
SHEET	
REV	0

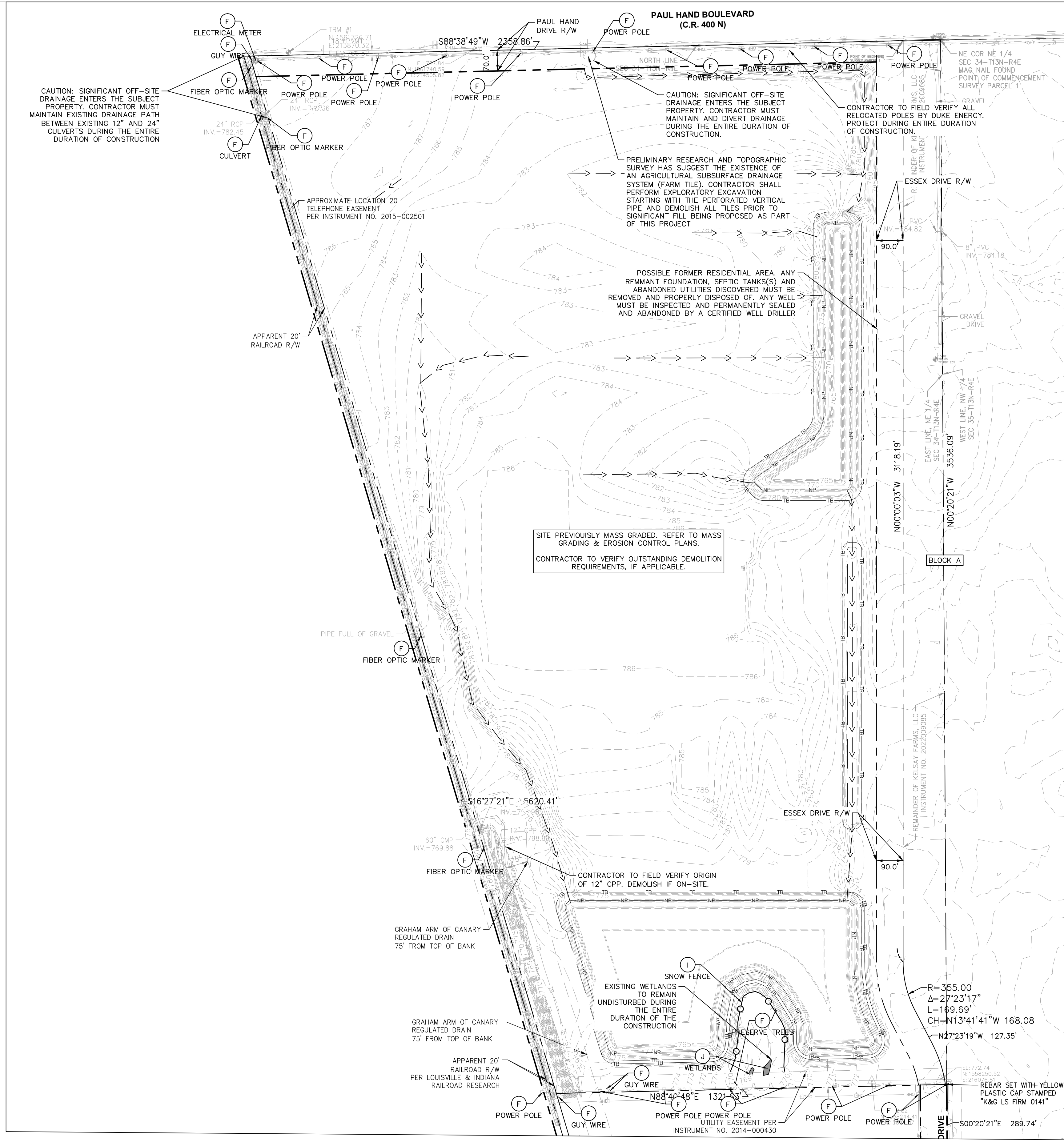
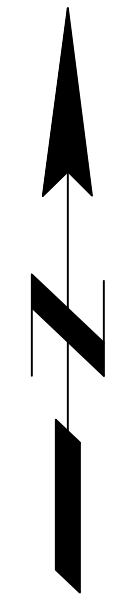
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 DWG SIZE: 36" x 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24

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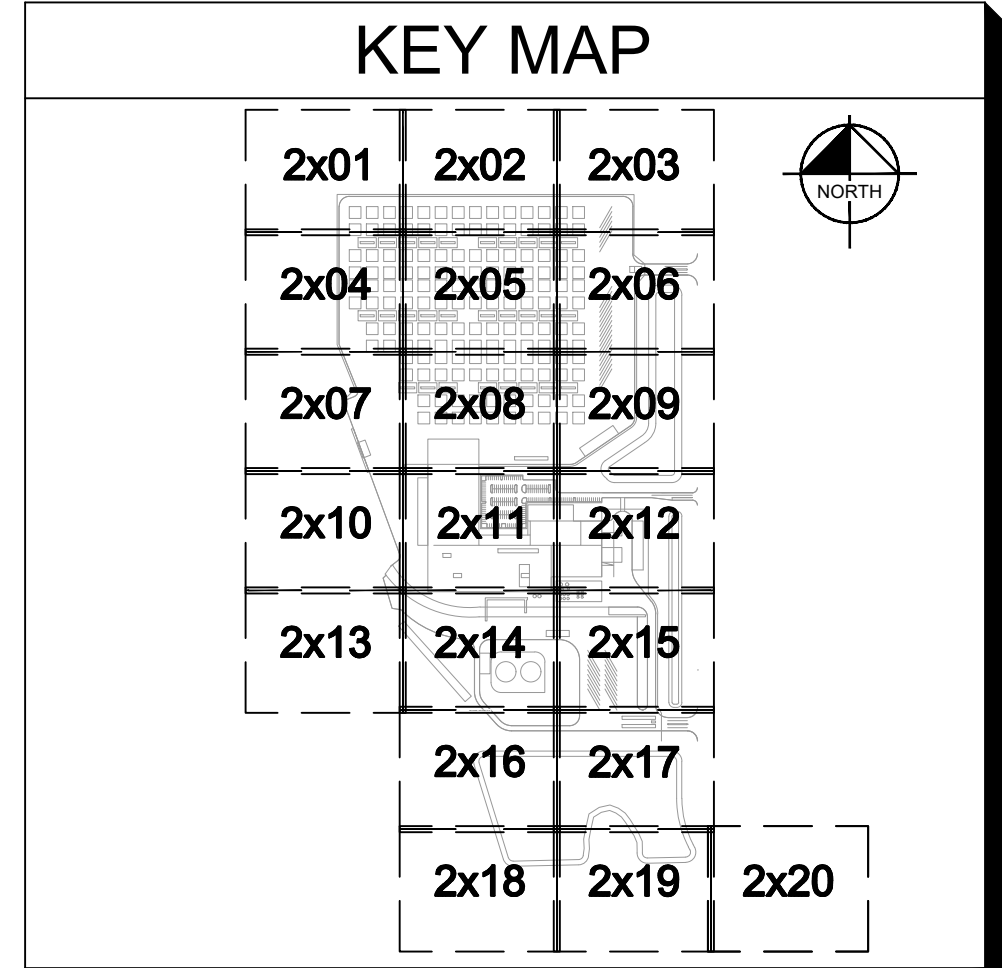


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Call 811
 before you dig

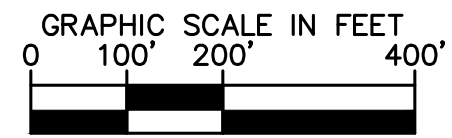
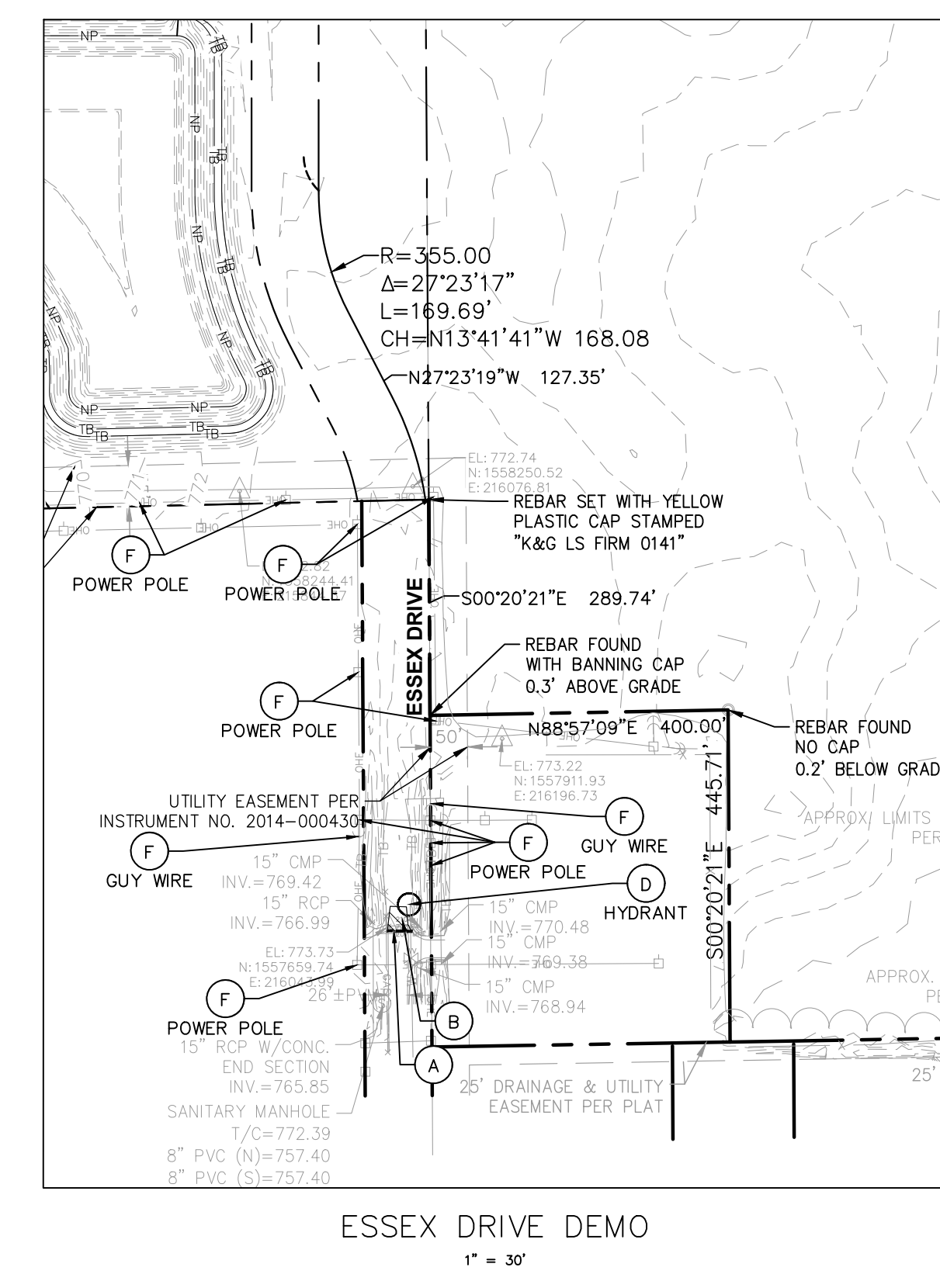
DEMOLITION LEGEND	
A.	SAWCUT LINE
B.	FULL-DEPTH ASPHALT PAVEMENT REMOVAL
C.	TREE REMOVAL
D.	ITEM TO BE RELOCATED
E.	ITEM TO BE REMOVED
F.	ITEM TO REMAIN, PROTECT THROUGHOUT DURATION OF CONSTRUCTION
G.	REMOVE & REPLACE CASTING WITH NEENAH R-3472
H.	ADJUST CASTING / STRUCTURE TO PROPOSED GRADE
I.	SNOW FENCE
J.	EXISTING WETLANDS

EXISTING LEGEND		
	BOLLARD	
	CONTROL BENCHMARK	
	FLAG POLE	
	MAIL BOX	
	UTILITY POLE	
	POST	
	SOIL BORING	
	HANDICAP SYMBOL	
	SIGN	
	CABLE MANHOLE	
	CABLE PEDESTAL	
	TELEPHONE PEDESTAL	
	TELEPHONE HAND HOLE	
	TELEPHONE MARKER	
	TELEPHONE MANHOLE	
	FIBER OPTIC MARKER	
	SWALE	
	FENCE LINE	
	SS SANITARY SEWER	
	SD STORM DRAIN	
	W WATER LINE	
	TREE LINE	
	MISC LID	
	MONITOR WELL	
	GAS MARKER	
	GAS METER	
	GAS VALVE	
	AC UNIT	
	AREA LIGHT	
	ELECTRICAL BOX	
	ELECTRICAL HAND HOLE	
	ELECTRICAL METER	
	ELECTRICAL MANHOLE	
	ELECTRICAL MARKER	
	ELECTRICAL TRANSFORMER	
	GUY POLE/WIRE	
	POWER POLE	
	TRAFFIC SIGNAL POLE	
	TRAFFIC MANHOLE	
	YARD LIGHT	
	SANITARY CLEANOUT	
	SANITARY MANHOLE	
	VENT PIPE	
	STORM CURB INLET	
	STORM INLET	
	STORM ROOF DRAIN	
	STORM DRAIN MANHOLE	
	STORM YARD DRAIN	
	FIRE DEPT CONNECTION	
	FIRE HYDRANT	
	IRRIGATION VALVE	
	POST INDICATOR VALVE	
	WELL	
	WATER METER	
	WATER VALVE	
	TREE / STUMP	
	TS TOE OF SLOPE	
	TB TOP OF BANK	
	FIB UNDERGROUND FIBER OPTIC	
	OHE OVERHEAD ELECTRICAL	
	GAS UNDERGROUND GAS	
	TEL UNDERGROUND TELEPHONE	

WELL ABANDONMENT
 BASED ON THE ENVIRONMENTAL REPORT, THERE IS A WELL(S) ON THE SITE. ALL WELLS MUST BE PERMANENTLY ABANDONED BY A LICENSED WELL DRILLER AND SHALL BE ABANDONED PER SECTION 312 IAC 13-10-2 OF THE INDIANA ADMINISTRATIVE CODE. CONTRACTOR IS RESPONSIBLE FOR ALL SUBCONTRACTORS, FORMS, APPLICATIONS, FEES, AND INSPECTIONS THAT MAY BE REQUIRED BY THE STATE AND LOCAL REGULATIONS.



GENERAL PLAN NOTES
 REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)



PROFESSIONAL SEAL

 NOT APPROVED FOR CONSTRUCTION
 ANTHONY MICHAEL COOPER
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF INDIANA
 No. 170509000

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REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

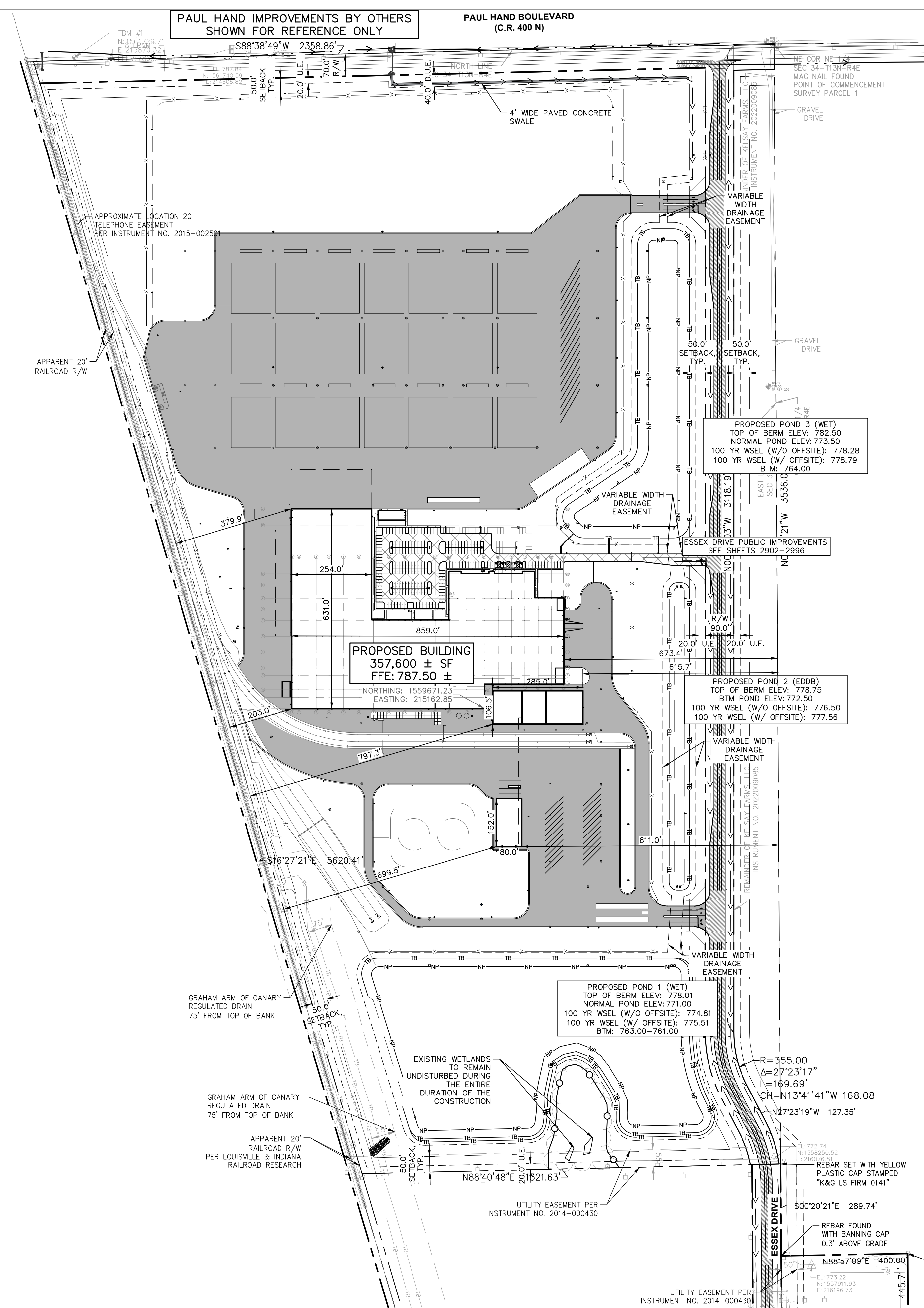


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 TITLE- PHASE 2 - FINAL BUILDOUT
 OVERALL EXISTING CONDITIONS AND DEMO PLAN

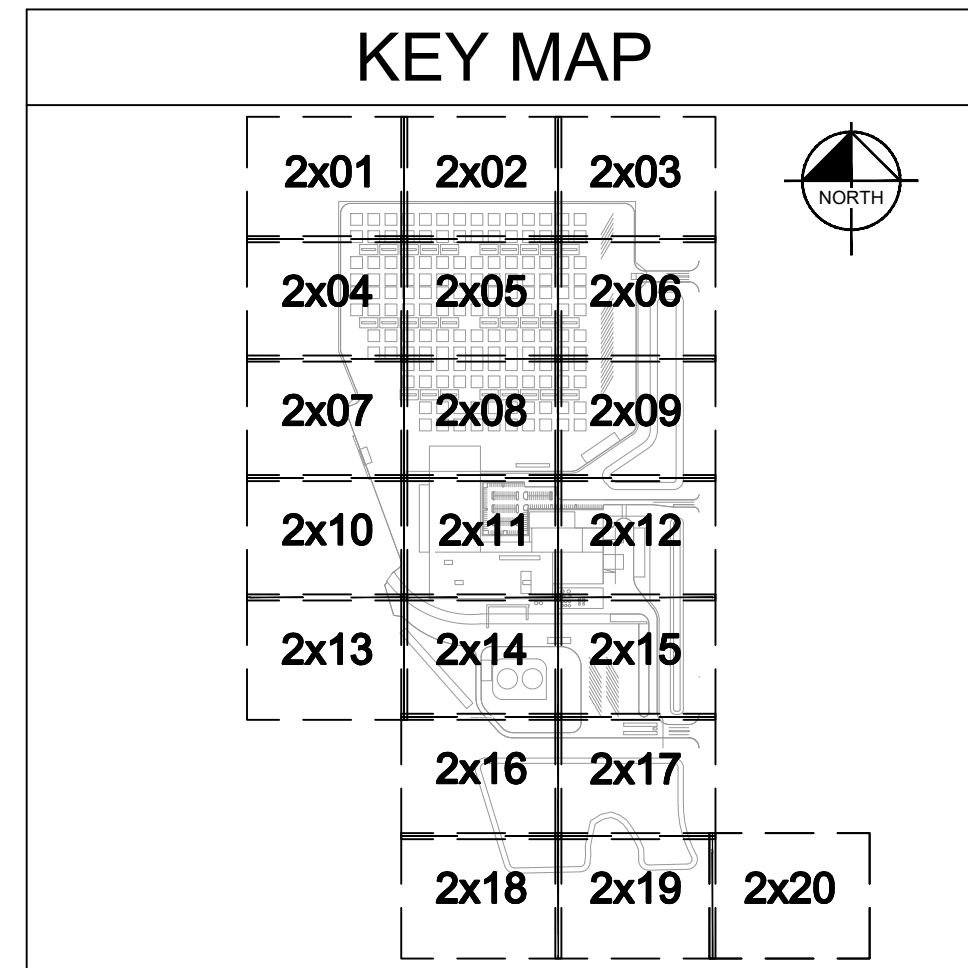
PROJ. NO. 170509000
 DWG. NO. 2100
 SHEET 0
 REV 0



EXISTING LEGEND table with symbols for bollard, control benchmark, flag pole, mail box, utility pole, post, soil boring, hand/cap symbol, sign, cable manhole, cable pedestal, telephone pedestal, telephone hand hole, telephone marker, telephone manhole, fiber optic marker, fence line, sanitary sewer, storm drain, water line, tree line, misc lid, monitor well, gas marker, gas meter, gas valve, ac unit, area light, electrical box, electrical hand hole, electrical meter, electrical manhole, electrical marker, electrical transformer, guy pole/wire, power pole, traffic signal pole, traffic manhole, yard light, sanitary cleanout, sanitary manhole, vent pipe, storm curb inlet, storm inlet, storm roof drain, storm drain manhole, storm yard drain, fire dept connection, fire hydrant, irrigation valve, post indicator valve, well, water meter, water valve, tree/stump, toe of slope, underground fiber optic, overhead electrical, underground gas, underground telephone.

PAVING LEGEND table with symbols for standard duty asphalt pavement, heavy duty asphalt pavement, right of way pavement, concrete sidewalk, heavy duty concrete pavement.

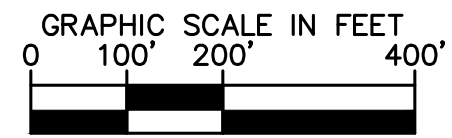
SITE SUMMARY table with rows for site zoning, setback requirements, site acreage, max lot coverage, impervious area/percentage, building area, building height, est. max # of employees, parking spaces (standard) required, parking spaces (accessible) required, parking spaces (standard) provided, parking spaces (accessible) provided, total parking spaces provided, parking spaces (bicycle) required, parking spaces (bicycle) provided.



BENCHMARKS table listing 6 benchmarks with details: originating benchmark, location, north/east coordinates, and elevation.

GENERAL PLAN NOTES: REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.

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PROFESSIONAL SEAL: ANTHONY MICHAEL REGISTERED PROFESSIONAL ENGINEER, PE, CIVIL, INDIANA, LICENSE NO. 170509000. NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF COOPER & ASSOCIATES LLC. DWG SIZE: 36" X 24"

Revision table with columns: REV, DESCRIPTION, DATE, IS, BY, REV, DESCRIPTION, DATE, IS, BY. Includes scale: AS NOTED, DRWN.: VG, CHKD.: AMM, APPD.: [blank], DATE: 10/10/24.

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Malarkey Roofing Products logo. PROJ. NO. 170509000. DWG. NO. 2200. SHEET 0. TITLE: PHASE 2 - FINAL BUILDOUT OVERALL SITE PLAN.



PAVEMENT LEGEND

	STANDARD DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	HEAVY DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	RIGHT OF WAY PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION & SHEETS 2902-2996 FOR MORE DETAILS
	CONCRETE SIDEWALK SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	HEAVY DUTY CONCRETE PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

EXISTING LEGEND

	BOLLARD		MISC LID		YARD LIGHT		TELEPHONE HAND HOLE
	CONTROL BENCHMARK		MONITOR WELL		SANITARY CLEANOUT		TELEPHONE MARKER
	ROW MONUMENT		GAS MARKER		SANITARY MANHOLE		TELEPHONE MANHOLE
	FLAG POLE		GAS METER		VENT PIPE		FIBER OPTIC MARKER
	MAIL BOX		GAS VALVE		STORM CURB INLET		GUY POLE/WIRE
	UTILITY POLE		AC UNIT		STORM INLET		POWER POLE
	POST		AREA LIGHT		STORM ROOF DRAIN		TRAFFIC SIGNAL POLE
	SOIL BORING		ELECTRICAL BOX		STORM DRAIN MANHOLE		TRAFFIC MANHOLE
	HANDICAP SYMBOL		ELECTRICAL HAND HOLE		STORM YARD DRAIN		WELL
	SIGN		ELECTRICAL METER		FIRE DEPT CONNECTION		WATER METER
	CABLE MANHOLE		ELECTRICAL MANHOLE		FIRE HYDRANT		WATER VALVE
	CABLE PEDESTAL		ELECTRICAL MARKER		IRRIGATION VALVE		TREE / STUMP
	TELEPHONE PEDESTAL		ELECTRICAL TRANSFORMER		POST INDICATOR VALVE		
	SWALE		TOE OF SLOPE				
	FENCE LINE		TOP OF BANK				
	SANITARY SEWER		UNDERGROUND FIBER OPTIC				
	STORM DRAIN		OVERHEAD ELECTRICAL				
	WATER LINE		UNDERGROUND GAS				
	TREE LINE		UNDERGROUND TELEPHONE				

KEY NOTES

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- ACCESSIBLE RAMP (SEE DETAILS)
- 2' WIDE TACTILE WARNING STRIP
- 4" WIDE PAVEMENT MARKING, WHITE SOLID LINE, TYP.
- 24" WIDE STOP BAR, TYP. (SEE DETAILS)
- STOP SIGN, TYP. (MUTCD R1-1, SEE DETAILS)
- FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
- CONCRETE PROTECTIVE BOLLARD
- TRANSFORMER PAD (REFER TO UTILITY PROVIDER)
- MONUMENT SIGN (SEE ARCHITECTURAL PLANS FOR DETAILS)
- LIGHT POLES SHOWN FOR COORDINATION ONLY (SEE SITE LIGHTING PLAN)
- STORAGE PALLETS (SEE ARCHITECTURAL PLAN FOR DETAILS)
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- 3-FT TRANSITION CURB (SEE DETAILS)
- STEEL BEAM GUARDRAIL (SEE DETAILS)
- BIKE RACK
- LEVEL SPREADER WITHOUT PERFORATED UNDERDRAIN (SEE DETAILS)
- LEVEL SPREADER WITH PERFORATED UNDERDRAIN (SEE DETAILS)
- AUTOMATED SLIDING GATE (SEE ARCHITECTURAL PLANS FOR DETAILS)
- MANUAL OPERATED SLIDING GATE (SEE ARCHITECTURAL PLANS FOR DETAILS)
- RAISED CONCRETE MEDIAN WITH ACCESS KIOSK (SEE ARCHITECTURAL PLANS FOR DETAILS)

GENERAL PLAN NOTES

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KHA PROJECT # 170509000



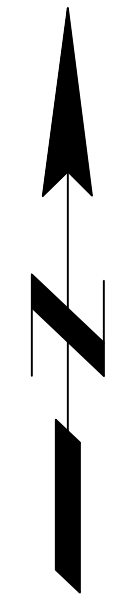
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PROJ. NO.
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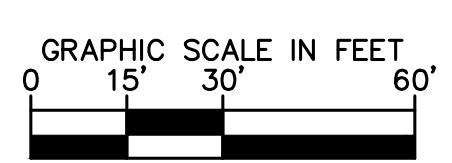
DWG. NO.
2201

TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

SHEET
REV 0



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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED

DRWN.: VG

CHKD.: AMM

APPD.:

APPD.:

DATE : 10/10/24

Cooper & Associates, LLC

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2200 Ellis Road, New Lenox, Illinois, 60451
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MATCHLINE - SEE SHEET 2x01
MATCHLINE - SEE SHEET 2x02

MATCHLINE - SEE SHEET 2x01
MATCHLINE - SEE SHEET 2x04



PAVEMENT LEGEND

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	CONCRETE SIDEWALK SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	HEAVY DUTY CONCRETE PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

EXISTING LEGEND

	BOLLARD		MISC LID		YARD LIGHT		TELEPHONE HAND HOLE
	CONTROL BENCHMARK		MONITOR WELL		SANITARY CLEANOUT		TELEPHONE MARKER
	ROW MONUMENT		GAS MARKER		SANITARY MANHOLE		TELEPHONE MANHOLE
	FLAG POLE		GAS METER		VENT PIPE		FIBER OPTIC MARKER
	MAIL BOX		GAS VALVE		STORM CURB INLET		GUY POLE/WIRE
	UTILITY POLE		AC UNIT		STORM INLET		POWER POLE
	POST		AREA LIGHT		STORM ROOF DRAIN		TRAFFIC SIGNAL POLE
	SOIL BORING		ELECTRICAL BOX		STORM DRAIN MANHOLE		TRAFFIC MANHOLE
	HANDICAP SYMBOL		ELECTRICAL HAND HOLE		STORM YARD DRAIN		WELL
	SIGN		ELECTRICAL METER		FIRE DEPT CONNECTION		WATER METER
	CABLE MANHOLE		ELECTRICAL MANHOLE		FIRE HYDRANT		WATER VALVE
	CABLE PEDESTAL		ELECTRICAL MARKER		IRRIGATION VALVE		TREE / STUMP
	TELEPHONE PEDESTAL		ELECTRICAL TRANSFORMER		POST INDICATOR VALVE		
	SWALE		TOE OF SLOPE				
	FENCE LINE		TOP OF BANK				
	SANITARY SEWER		UNDERGROUND FIBER OPTIC				
	STORM DRAIN		OVERHEAD ELECTRICAL				
	WATER LINE		UNDERGROUND GAS				
	TREE LINE		UNDERGROUND TELEPHONE				

KEY NOTES

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GENERAL PLAN NOTES

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KHA PROJECT # 170509000



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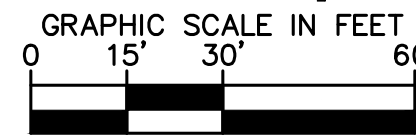
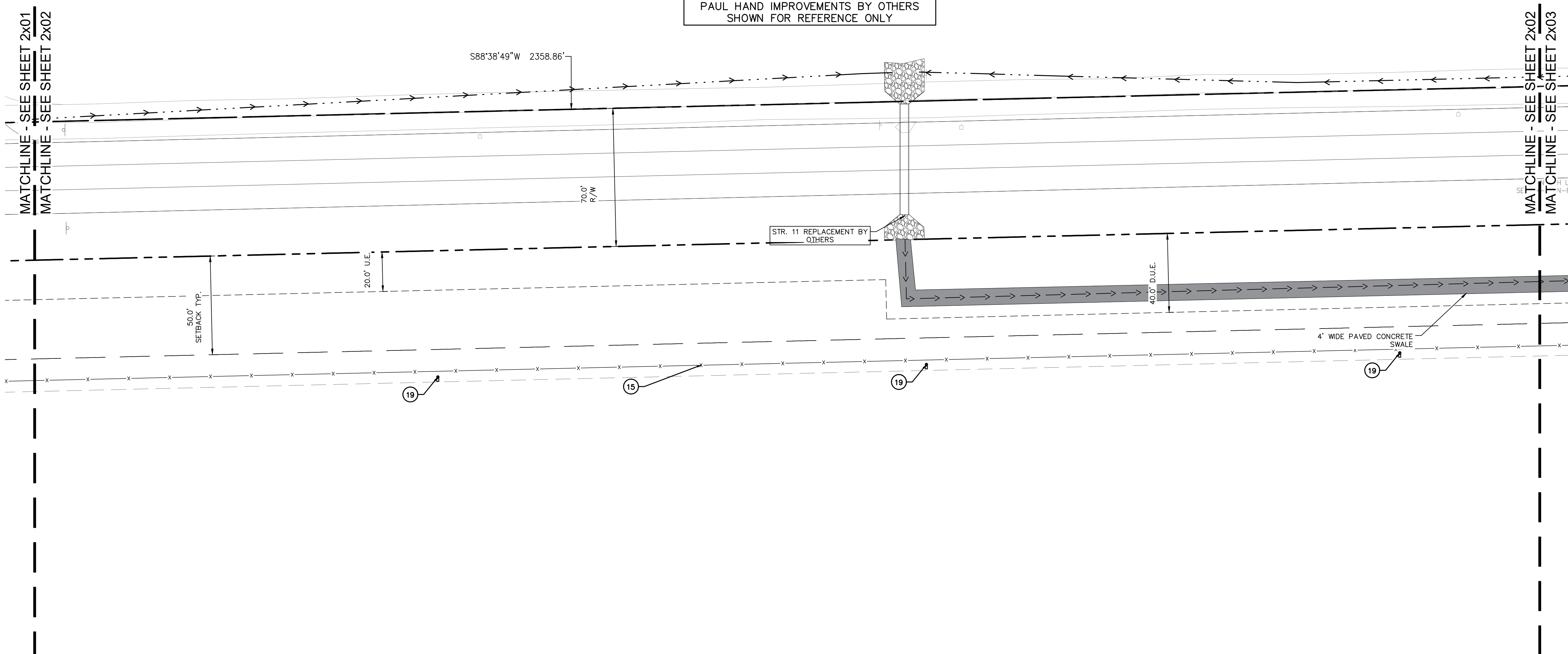
DWG. NO.
2202

TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

SHEET
REV 0

PAUL HAND BOULEVARD
(C.R. 400 N)

PAUL HAND IMPROVEMENTS BY OTHERS
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MATCHLINE - SEE SHEET 2x02
MATCHLINE - SEE SHEET 2x05

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PAVEMENT LEGEND

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	HANDICAP SYMBOL		ELECTRICAL BOX		STORM YARD DRAIN		TRAFFIC MANHOLE
	SIGN		ELECTRICAL HAND HOLE		FIRE DEPT CONNECTION		WELL
	CABLE MANHOLE		ELECTRICAL METER		FIRE HYDRANT		WATER METER
	CABLE PEDESTAL		ELECTRICAL MANHOLE		IRRIGATION VALVE		WATER VALVE
	TELEPHONE PEDESTAL		ELECTRICAL MARKER		POST INDICATOR VALVE		TREE / STUMP
	SWALE		ELECTRICAL TRANSFORMER		TOE OF SLOPE		
	FENCE LINE				TOP OF BANK		
	SANITARY SEWER				UNDERGROUND FIBER OPTIC		
	STORM DRAIN				OVERHEAD ELECTRICAL		
	WATER LINE				UNDERGROUND GAS		
	TREE LINE				UNDERGROUND TELEPHONE		

KEY NOTES

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KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

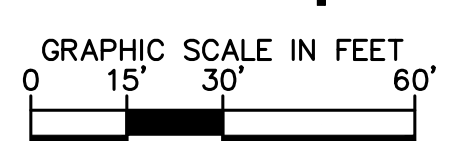
PROJ. NO.
170509000
DWG. NO.
2203
SHEET
REV 0

PAUL HAND IMPROVEMENTS BY OTHERS
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PAUL HAND BLVD IS ANTICIPATED TO BEGIN
IMPROVEMENTS CONCURRENTLY WITH THIS
PROJECT. IN THE EVENT OF DELAYS, THE
CONTRACTOR SHALL PROVIDE AN INTERIM
CONNECTION TO THE EXISTING ROAD.
COORDINATE WITH CITY OF FRANKLIN ON
TIMING.

MATCHLINE - SEE SHEET 2x02
MATCHLINE - SEE SHEET 2x03

MATCHLINE - SEE SHEET 2x03
MATCHLINE - SEE SHEET 2x06



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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED

DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24

Cooper & Associates, LLC

Engineers - Project Managers
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PAVEMENT LEGEND

	STANDARD DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	HEAVY DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	RIGHT OF WAY PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION & SHEETS 2902-2996 FOR MORE DETAILS
	CONCRETE SIDEWALK SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	HEAVY DUTY CONCRETE PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

EXISTING LEGEND

	BOLLARD		MISC LID		YARD LIGHT		TELEPHONE HAND HOLE
	CONTROL BENCHMARK		MONITOR WELL		SANITARY CLEANOUT		TELEPHONE MARKER
	ROW MONUMENT		GAS MARKER		SANITARY MANHOLE		TELEPHONE MARKER
	FLAG POLE		GAS METER		VENT PIPE		FIBER OPTIC MARKER
	MAIL BOX		GAS VALVE		STORM CURB INLET		GUY POLE/WIRE
	UTILITY POLE		AC UNIT		STORM INLET		POWER POLE
	POST		AREA LIGHT		STORM ROOF DRAIN		TRAFFIC SIGNAL POLE
	SOIL BORING		ELECTRICAL BOX		STORM DRAIN MANHOLE		TRAFFIC MANHOLE
	HANDICAP SYMBOL		ELECTRICAL HAND HOLE		STORM YARD DRAIN		WELL
	SIGN		ELECTRICAL METER		FIRE DEPT CONNECTION		WATER METER
	CABLE MANHOLE		ELECTRICAL MANHOLE		IRRIGATION VALVE		WATER VALVE
	CABLE PEDESTAL		ELECTRICAL MARKER		POST INDICATOR VALVE		TREE / STUMP
	TELEPHONE PEDESTAL		ELECTRICAL TRANSFORMER				
	SEWER LINE		TOE OF SLOPE				
	FENCE LINE		TOP OF BANK				
	SANITARY SEWER		UNDERGROUND FIBER OPTIC				
	STORM DRAIN		OVERHEAD ELECTRICAL				
	WATER LINE		UNDERGROUND GAS				
	TREE LINE		UNDERGROUND TELEPHONE				

KEY NOTES

- CONCRETE CURB, TYP. (SEE DETAILS)
- DEPRESSED CONCRETE CURB AND GUTTER (SEE DETAILS)
- CONCRETE SIDEWALK, TYP. (SEE DETAILS)
- COMBINED CURB AND WALK (SEE DETAIL) (5' FROM FACE OF CURB)
- CONCRETE CURB AND GUTTER (SEE DETAILS)
- CONNECT TO EXISTING PAVEMENT, SIDEWALK, CURB, TYP.
- CONCRETE PARKING BUMPER TYP. (SEE DETAILS)
- ACCESSIBLE PAVEMENT MARKINGS, TYP. (SEE DETAILS)
- ACCESSIBLE PARKING SIGN, TYP. (SEE PLAN FOR VAN LOCATION) (MUTCD R7-8, SEE DETAILS)
- ACCESSIBLE RAMP (SEE DETAILS)
- 2' WIDE TACTILE WARNING STRIP
- 4" WIDE PAVEMENT MARKING, WHITE SOLID LINE, TYP.
- 24" WIDE STOP BAR, TYP. (SEE DETAILS)
- STOP SIGN, TYP. (MUTCD R1-1, SEE DETAILS)
- FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
- CONCRETE PROTECTIVE BOLLARD
- TRANSFORMER PAD (REFER TO UTILITY PROVIDER)
- MONUMENT SIGN (SEE ARCHITECTURAL PLANS FOR DETAILS)
- LIGHT POLES SHOWN FOR COORDINATION ONLY (SEE SITE LIGHTING PLAN)
- STORAGE PALLETS (SEE ARCHITECTURAL PLAN FOR DETAILS)
- CONTROLLED ENTRANCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
- 2' CURB TURNOUT (SEE DETAILS)
- 3-FT TRANSITION CURB (SEE DETAILS)
- STEEL BEAM GUARDRAIL (SEE DETAILS)
- BIKE RACK
- LEVEL SPREADER WITHOUT PERFORATED UNDERDRAIN (SEE DETAILS)
- LEVEL SPREADER WITH PERFORATED UNDERDRAIN (SEE DETAILS)
- AUTOMATED SLIDING GATE (SEE ARCHITECTURAL PLANS FOR DETAILS)
- MANUAL OPERATED SLIDING GATE (SEE ARCHITECTURAL PLANS FOR DETAILS)
- RAISED CONCRETE MEDIAN WITH ACCESS KIOSK (SEE ARCHITECTURAL PLANS FOR DETAILS)

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)



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KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2204

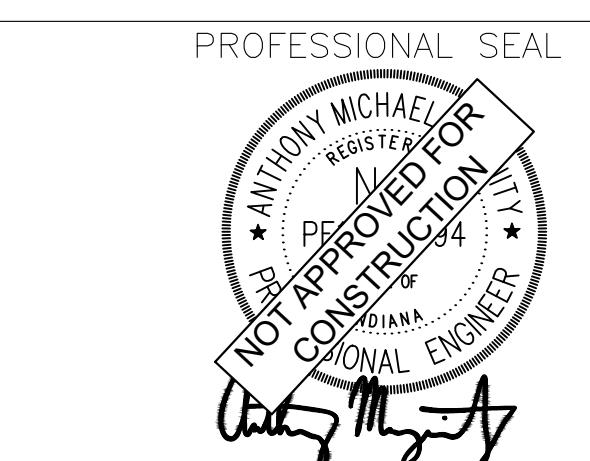
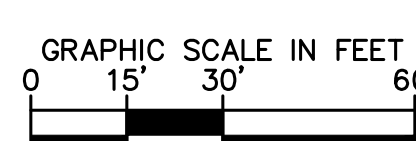
TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

SHEET
REV 0

MATCHLINE - SEE SHEET 2x01
MATCHLINE - SEE SHEET 2x04

MATCHLINE - SEE SHEET 2x04
MATCHLINE - SEE SHEET 2x07

MATCHLINE - SEE SHEET 2x04
MATCHLINE - SEE SHEET 2x05



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PAVEMENT LEGEND

	STANDARD DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	HEAVY DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	RIGHT OF WAY PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION & SHEETS 2902-2996 FOR MORE DETAILS
	CONCRETE SIDEWALK SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	HEAVY DUTY CONCRETE PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

EXISTING LEGEND

	BOLLARD		MISC LID		YARD LIGHT		TELEPHONE HAND HOLE
	CONTROL BENCHMARK		MONITOR WELL		SANITARY CLEANOUT		TELEPHONE MARKER
	ROW MONUMENT		GAS MARKER		SANITARY MANHOLE		TELEPHONE MANHOLE
	FLAG POLE		GAS METER		VENT PIPE		FIBER OPTIC MARKER
	MAIL BOX		GAS VALVE		STORM CURB INLET		GUY POLE/WIRE
	UTILITY POLE		AC UNIT		STORM INLET		POWER POLE
	POST		AREA LIGHT		STORM ROOF DRAIN		TRAFFIC SIGNAL POLE
	SOIL BORING		ELECTRICAL BOX		STORM DRAIN MANHOLE		TRAFFIC MANHOLE
	HANDICAP SYMBOL		ELECTRICAL HAND HOLE		STORM YARD DRAIN		WELL
	SIGN		ELECTRICAL METER		FIRE DEPT CONNECTION		WATER METER
	CABLE MANHOLE		ELECTRICAL MANHOLE		FIRE HYDRANT		WATER VALVE
	CABLE PEDESTAL		ELECTRICAL MARKER		IRRIGATION VALVE		TREE / STUMP
	TELEPHONE PEDESTAL		ELECTRICAL TRANSFORMER		POST INDICATOR VALVE		

KEY NOTES

1. CONCRETE CURB, TYP. (SEE DETAILS)
2. DEPRESSED CONCRETE CURB AND GUTTER (SEE DETAILS)
3. CONCRETE SIDEWALK, TYP. (SEE DETAILS)
4. COMBINED CURB AND WALK (SEE DETAIL) (5' FROM FACE OF CURB)
5. CONCRETE CURB AND GUTTER (SEE DETAILS)
6. CONNECT TO EXISTING PAVEMENT, SIDEWALK, CURB, TYP.
7. CONCRETE PARKING BUMPER TYP. (SEE DETAILS)
8. ACCESSIBLE PAVEMENT MARKINGS, TYP. (SEE DETAILS)
9. ACCESSIBLE PARKING SIGN, TYP. (SEE PLAN FOR VAN LOCATION) (MUTCD R7-8, SEE DETAILS)
10. ACCESSIBLE RAMP (SEE DETAILS)
11. 2' WIDE TACTILE WARNING STRIP
12. 4" WIDE PAVEMENT MARKING, WHITE SOLID LINE, TYP.
13. 24" WIDE STOP BAR, TYP. (SEE DETAILS)
14. STOP SIGN, TYP. (MUTCD R1-1, SEE DETAILS)
15. FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
16. CONCRETE PROTECTIVE BOLLARD
17. TRANSFORMER PAD (REFER TO UTILITY PROVIDER)
18. MONUMENT SIGN (SEE ARCHITECTURAL PLANS FOR DETAILS)
19. LIGHT POLES SHOWN FOR COORDINATION ONLY (SEE SITE LIGHTING PLAN)
20. STORAGE PALLETS (SEE ARCHITECTURAL PLAN FOR DETAILS)
21. CONTROLLED ENTRANCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
22. 2' CURB TURNOUT (SEE DETAILS)
23. 3-FT TRANSITION CURB (SEE DETAILS)
24. STEEL BEAM GUARDRAIL (SEE DETAILS)
25. BIKE RACK
26. LEVEL SPREADER WITHOUT PERFORATED UNDERDRAIN (SEE DETAILS)
27. LEVEL SPREADER WITH PERFORATED UNDERDRAIN (SEE DETAILS)
28. AUTOMATED SLIDING GATE (SEE ARCHITECTURAL PLANS FOR DETAILS)
29. MANUAL OPERATED SLIDING GATE (SEE ARCHITECTURAL PLANS FOR DETAILS)
30. RAISED CONCRETE MEDIAN WITH ACCESS KIOSK (SEE ARCHITECTURAL PLANS FOR DETAILS)

GENERAL PLAN NOTES

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KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2205

TITLE - PHASE 2 - FINAL BUILDOUT
SITE PLAN

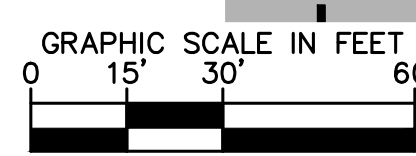
SHEET
REV 0

MATCHLINE - SEE SHEET 2x02
MATCHLINE - SEE SHEET 2x05

MATCHLINE - SEE SHEET 2x04
MATCHLINE - SEE SHEET 2x05

MATCHLINE - SEE SHEET 2x05
MATCHLINE - SEE SHEET 2x06

MATCHLINE - SEE SHEET 2x05
MATCHLINE - SEE SHEET 2x08



PROFESSIONAL SEAL

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DWG SIZE: 36" X 24"

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SCALE: AS NOTED

DRWN.: VG
CHKD.: AMM
APPD.:
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Cooper & Associates, LLC

Engineers - Project Managers
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PAVEMENT LEGEND

- STANDARD DUTY ASPHALT PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- HEAVY DUTY ASPHALT PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- RIGHT OF WAY PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION & SHEETS 2902-2996 FOR MORE DETAILS
- CONCRETE SIDEWALK
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- HEAVY DUTY CONCRETE PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

EXISTING LEGEND

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KEY NOTES

1. CONCRETE CURB, TYP. (SEE DETAILS)
2. DEPRESSED CONCRETE CURB AND GUTTER (SEE DETAILS)
3. CONCRETE SIDEWALK, TYP. (SEE DETAILS)
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10. ACCESSIBLE RAMP (SEE DETAILS)
11. 2' WIDE TACTILE WARNING STRIP
12. 4" WIDE PAVEMENT MARKING, WHITE SOLID LINE, TYP.
13. 24" WIDE STOP BAR, TYP. (SEE DETAILS)
14. STOP SIGN, TYP. (MUTCD R1-1, SEE DETAILS)
15. FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
16. CONCRETE PROTECTIVE BOLLARD
17. TRANSFORMER PAD (REFER TO UTILITY PROVIDER)
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KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

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DWG. NO.
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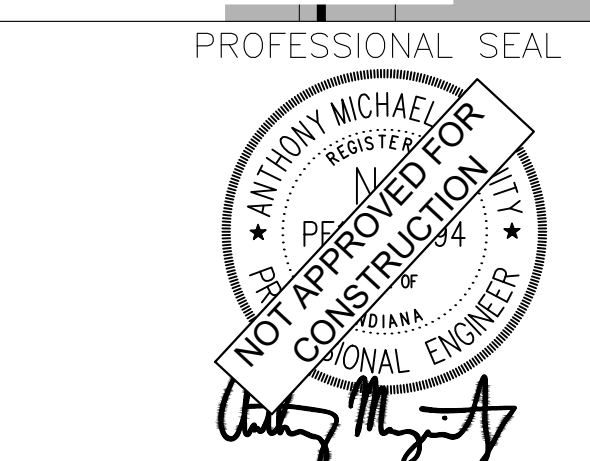
SHEET
REV 0

TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

MATCHLINE - SEE SHEET 2x03
MATCHLINE - SEE SHEET 2x06

MATCHLINE - SEE SHEET 2x06
MATCHLINE - SEE SHEET 2x09

GRAPHIC SCALE IN FEET
0 15' 30' 60'



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PAVEMENT LEGEND

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	HEAVY DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
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	CONCRETE SIDEWALK SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
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EXISTING LEGEND

	BOLLARD		MISC LID		YARD LIGHT		TELEPHONE HAND HOLE
	CONTROL BENCHMARK		MONITOR WELL		SANITARY CLEANOUT		TELEPHONE MARKER
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	POST		AREA LIGHT		STORM ROOF DRAIN		TRAFFIC MANHOLE
	SOIL BORING		ELECTRICAL BOX		STORM DRAIN MANHOLE		WELL
	HANDICAP SYMBOL		ELECTRICAL HAND HOLE		STORM YARD DRAIN		WATER METER
	SIGN		ELECTRICAL METER		FIRE DEPT CONNECTION		WATER VALVE
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	CABLE PEDESTAL		ELECTRICAL MARKER		IRRIGATION VALVE		
	TELEPHONE PEDESTAL		ELECTRICAL TRANSFORMER		POST INDICATOR VALVE		
	SWALE		TOE OF SLOPE				
	FENCE LINE		TOP OF BANK				
	SANITARY SEWER		UNDERGROUND FIBER OPTIC				
	STORM DRAIN		OVERHEAD ELECTRICAL				
	WATER LINE		UNDERGROUND GAS				
	TREE LINE		UNDERGROUND TELEPHONE				

KEY NOTES

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KHA PROJECT # 170509000



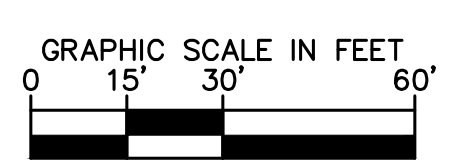
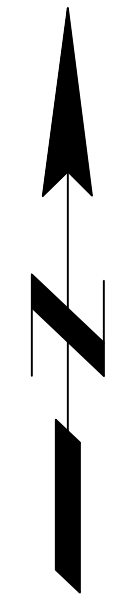
MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2207

TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

SHEET
REV 0



PROFESSIONAL SEAL



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PAVEMENT LEGEND

- STANDARD DUTY ASPHALT PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- HEAVY DUTY ASPHALT PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- RIGHT OF WAY PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION & SHEETS 2902-2996 FOR MORE DETAILS
- CONCRETE SIDEWALK
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- HEAVY DUTY CONCRETE PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

EXISTING LEGEND

- | | | | | | | | |
|--|--------------------|--|-------------------------|--|----------------------|--|---------------------|
| | BOLLARD | | MISC LID | | YARD LIGHT | | TELEPHONE HAND HOLE |
| | CONTROL BENCHMARK | | MONITOR WELL | | SANITARY CLEANOUT | | TELEPHONE MARKER |
| | ROW MONUMENT | | GAS MARKER | | SANITARY MANHOLE | | TELEPHONE MARKER |
| | FLAG POLE | | GAS METER | | VENT PIPE | | FIBER OPTIC MARKER |
| | MAIL BOX | | GAS VALVE | | STORM CURB INLET | | GUY POLE/WIRE |
| | UTILITY POLE | | AC UNIT | | STORM INLET | | POWER POLE |
| | POST | | AREA LIGHT | | STORM ROOF DRAIN | | TRAFFIC SIGNAL POLE |
| | SOIL BORING | | ELECTRICAL BOX | | STORM DRAIN MANHOLE | | TRAFFIC MANHOLE |
| | HANDICAP SYMBOL | | ELECTRICAL HAND HOLE | | STORM YARD DRAIN | | WELL |
| | SIGN | | ELECTRICAL METER | | FIRE DEPT CONNECTION | | WATER METER |
| | CABLE MANHOLE | | ELECTRICAL MANHOLE | | FIRE HYDRANT | | WATER VALVE |
| | CABLE PEDESTAL | | ELECTRICAL MARKER | | IRRIGATION VALVE | | TREE / STUMP |
| | TELEPHONE PEDESTAL | | ELECTRICAL TRANSFORMER | | POST INDICATOR VALVE | | |
| | SWALE | | TOE OF SLOPE | | | | |
| | FENCE LINE | | TOP OF BANK | | | | |
| | SANITARY SEWER | | UNDERGROUND FIBER OPTIC | | | | |
| | STORM DRAIN | | OVERHEAD ELECTRICAL | | | | |
| | WATER LINE | | UNDERGROUND GAS | | | | |
| | TREE LINE | | UNDERGROUND TELEPHONE | | | | |

KEY NOTES

1. CONCRETE CURB, TYP. (SEE DETAILS)
2. DEPRESSED CONCRETE CURB AND GUTTER (SEE DETAILS)
3. CONCRETE SIDEWALK, TYP. (SEE DETAILS)
4. COMBINED CURB AND WALK (SEE DETAIL) (5' FROM FACE OF CURB)
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8. ACCESSIBLE PAVEMENT MARKINGS, TYP. (SEE DETAILS)
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10. ACCESSIBLE RAMP (SEE DETAILS)
11. 2' WIDE TACTILE WARNING STRIP
12. 4" WIDE PAVEMENT MARKING, WHITE SOLID LINE, TYP.
13. 24" WIDE STOP BAR, TYP. (SEE DETAILS)
14. STOP SIGN, TYP. (MUTCD R1-1, SEE DETAILS)
15. FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
16. CONCRETE PROTECTIVE BOLLARD
17. TRANSFORMER PAD (REFER TO UTILITY PROVIDER)
18. MONUMENT SIGN (SEE ARCHITECTURAL PLANS FOR DETAILS)
19. LIGHT POLES SHOWN FOR COORDINATION ONLY (SEE SITE LIGHTING PLAN)
20. STORAGE PALLETS (SEE ARCHITECTURAL PLAN FOR DETAILS)
21. CONTROLLED ENTRANCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
22. 2' CURB TURNOUT (SEE DETAILS)
23. 3'-FT TRANSITION CURB (SEE DETAILS)
24. STEEL BEAM GUARDRAIL (SEE DETAILS)
25. BIKE RACK
26. LEVEL SPREADER WITHOUT PERFORATED UNDERDRAIN (SEE DETAILS)
27. LEVEL SPREADER WITH PERFORATED UNDERDRAIN (SEE DETAILS)
28. AUTOMATED SLIDING GATE (SEE ARCHITECTURAL PLANS FOR DETAILS)
29. MANUAL OPERATED SLIDING GATE (SEE ARCHITECTURAL PLANS FOR DETAILS)
30. RAISED CONCRETE MEDIAN WITH ACCESS KIOSK (SEE ARCHITECTURAL PLANS FOR DETAILS)

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)



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KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2209

TITLE- PHASE 2 - FINAL BUILDOUT

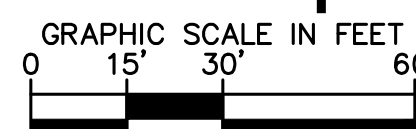
SHEET
REV 0

MATCHLINE - SEE SHEET 2x06
MATCHLINE - SEE SHEET 2x09

TRUCK LOADING POSITION, SHOWN FOR REFERENCE ONLY - NO SPECIAL STRIPING PLANNED, TYP.

PROPOSED POND 3 (NET)
TOP OF BERM ELEV: 782.50
NORMAL POND ELEV: 773.50
100 YR WSEL (W/O OFFSITE): 778.28
100 YR WSEL (W/ OFFSITE): 778.79
BTM: 764.00

ESSEX DRIVE PUBLIC IMPROVEMENTS
SEE SHEETS 2902-2996



MATCHLINE - SEE SHEET 2x09
MATCHLINE - SEE SHEET 2x12

PROFESSIONAL SEAL



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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24



Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com



PAVEMENT LEGEND

	STANDARD DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	HEAVY DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	RIGHT OF WAY PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION & SHEETS 2902-2996 FOR MORE DETAILS
	CONCRETE SIDEWALK SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	HEAVY DUTY CONCRETE PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

EXISTING LEGEND

	BOLLARD		MISC LID		YARD LIGHT		TELEPHONE HAND HOLE
	CONTROL BENCHMARK		MONITOR WELL		SANITARY CLEANOUT		TELEPHONE MARKER
	ROW MONUMENT		GAS MARKER		SANITARY MANHOLE		TELEPHONE MARKER
	FLAG POLE		GAS METER		VENT PIPE		FIBER OPTIC MARKER
	MAIL BOX		GAS VALVE		STORM CURB INLET		GUY POLE/WIRE
	UTILITY POLE		AC UNIT		STORM INLET		POWER POLE
	POST		AREA LIGHT		STORM ROOF DRAIN		TRAFFIC SIGNAL POLE
	SOIL BORING		ELECTRICAL BOX		STORM DRAIN MANHOLE		TRAFFIC MANHOLE
	HANDICAP SYMBOL		ELECTRICAL HAND HOLE		STORM YARD DRAIN		WELL
	SIGN		ELECTRICAL METER		FIRE DEPT CONNECTION		WATER METER
	CABLE MANHOLE		ELECTRICAL MANHOLE		FIRE HYDRANT		WATER VALVE
	CABLE PEDESTAL		ELECTRICAL MARKER		IRRIGATION VALVE		TREE / STUMP
	TELEPHONE PEDESTAL		ELECTRICAL TRANSFORMER		POST INDICATOR VALVE		

KEY NOTES

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- DEPRESSED CONCRETE CURB AND GUTTER (SEE DETAILS)
- CONCRETE SIDEWALK, TYP. (SEE DETAILS)
- COMBINED CURB AND WALK (SEE DETAIL) (5' FROM FACE OF CURB)
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- ACCESSIBLE PARKING SIGN, TYP. (SEE PLAN FOR VAN LOCATION) (MUTCD R7-8, SEE DETAILS)
- ACCESSIBLE RAMP (SEE DETAILS)
- 2' WIDE TACTILE WARNING STRIP
- 4" WIDE PAVEMENT MARKING, WHITE SOLID LINE, TYP.
- 24" WIDE STOP BAR, TYP. (SEE DETAILS)
- STOP SIGN, TYP. (MUTCD R1-1, SEE DETAILS)
- FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
- CONCRETE PROTECTIVE BOLLARD
- TRANSFORMER PAD (REFER TO UTILITY PROVIDER)
- MONUMENT SIGN (SEE ARCHITECTURAL PLANS FOR DETAILS)
- LIGHT POLES SHOWN FOR COORDINATION ONLY (SEE SITE LIGHTING PLAN)
- STORAGE PALLETS (SEE ARCHITECTURAL PLAN FOR DETAILS)
- CONTROLLED ENTRANCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
- 2' CURB TURNOUT (SEE DETAILS)
- 3-FT TRANSITION CURB (SEE DETAILS)
- STEEL BEAM GUARDRAIL (SEE DETAILS)
- BIKE RACK
- LEVEL SPREADER WITHOUT PERFORATED UNDERDRAIN (SEE DETAILS)
- LEVEL SPREADER WITH PERFORATED UNDERDRAIN (SEE DETAILS)
- AUTOMATED SLIDING GATE (SEE ARCHITECTURAL PLANS FOR DETAILS)
- MANUAL OPERATED SLIDING GATE (SEE ARCHITECTURAL PLANS FOR DETAILS)
- RAISED CONCRETE MEDIAN WITH ACCESS KIOSK (SEE ARCHITECTURAL PLANS FOR DETAILS)

GENERAL PLAN NOTES

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Kimley»Horn

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PHONE: 317-218-9560
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KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2210

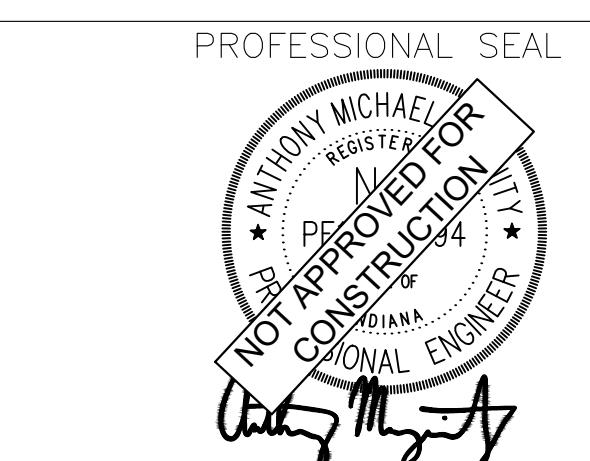
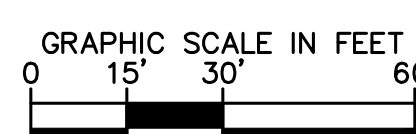
TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

SHEET
REV 0

MATCHLINE - SEE SHEET 2x07
MATCHLINE - SEE SHEET 2x10

MATCHLINE - SEE SHEET 2x10
MATCHLINE - SEE SHEET 2x13

MATCHLINE - SEE SHEET 2x10
MATCHLINE - SEE SHEET 2x11



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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

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Cooper & Associates, LLC

Engineers - Project Managers
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PAVEMENT LEGEND

- STANDARD DUTY ASPHALT PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- HEAVY DUTY ASPHALT PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- RIGHT OF WAY PAVEMENT
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EXISTING LEGEND

- | | | | |
|--------------------|------------------------|----------------------|---------------------|
| BOLLARD | MISC LID | YARD LIGHT | TELEPHONE HAND HOLE |
| CONTROL BENCHMARK | MONITOR WELL | SANITARY CLEANOUT | TELEPHONE MARKER |
| ROW MONUMENT | GAS MARKER | SANITARY MANHOLE | TELEPHONE MANHOLE |
| FLAG POLE | GAS METER | VENT PIPE | FIBER OPTIC MARKER |
| MAIL BOX | GAS VALVE | STORM CURB INLET | GUY POLE/WIRE |
| UTILITY POLE | AC UNIT | STORM INLET | POWER POLE |
| POST | AREA LIGHT | STORM ROOF DRAIN | TRAFFIC SIGNAL POLE |
| SOIL BORING | ELECTRICAL BOX | STORM DRAIN MANHOLE | TRAFFIC MANHOLE |
| HANDICAP SYMBOL | ELECTRICAL HAND HOLE | STORM YARD DRAIN | WELL |
| SIGN | ELECTRICAL METER | FIRE DEPT CONNECTION | WATER METER |
| CABLE MANHOLE | ELECTRICAL MANHOLE | FIRE HYDRANT | WATER VALVE |
| CABLE PEDESTAL | ELECTRICAL MARKER | IRRIGATION VALVE | TREE / STUMP |
| TELEPHONE PEDESTAL | ELECTRICAL TRANSFORMER | POST INDICATOR VALVE | |

KEY NOTES

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WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

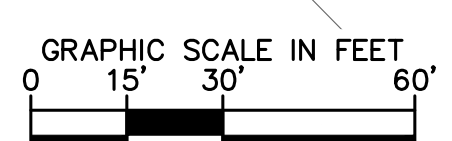
PROJ. NO.
170509000
DWG. NO.
2211
SHEET
REV 0

MATCHLINE - SEE SHEET 2x08
MATCHLINE - SEE SHEET 2x11

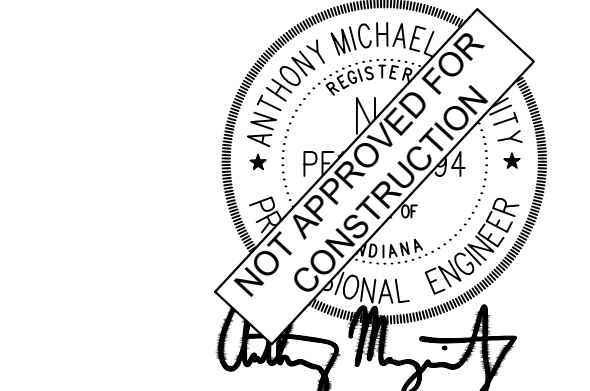
PROPOSED BUILDING
357,600 ± SF
FFE: 787.50 ±

MATCHLINE - SEE SHEET 2x11
MATCHLINE - SEE SHEET 2x14

NORTHING: 1559671.23
EASTING: 215162.85



PROFESSIONAL SEAL



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SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
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DATE : 10/10/24



Engineers - Project Managers
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PAVEMENT LEGEND

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- | | | | |
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KEY NOTES

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KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

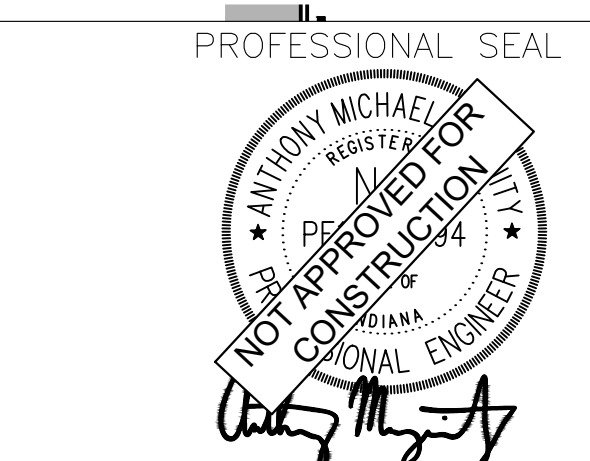
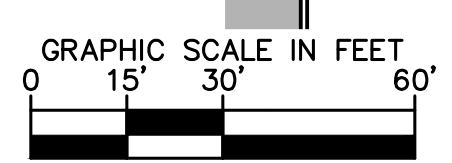
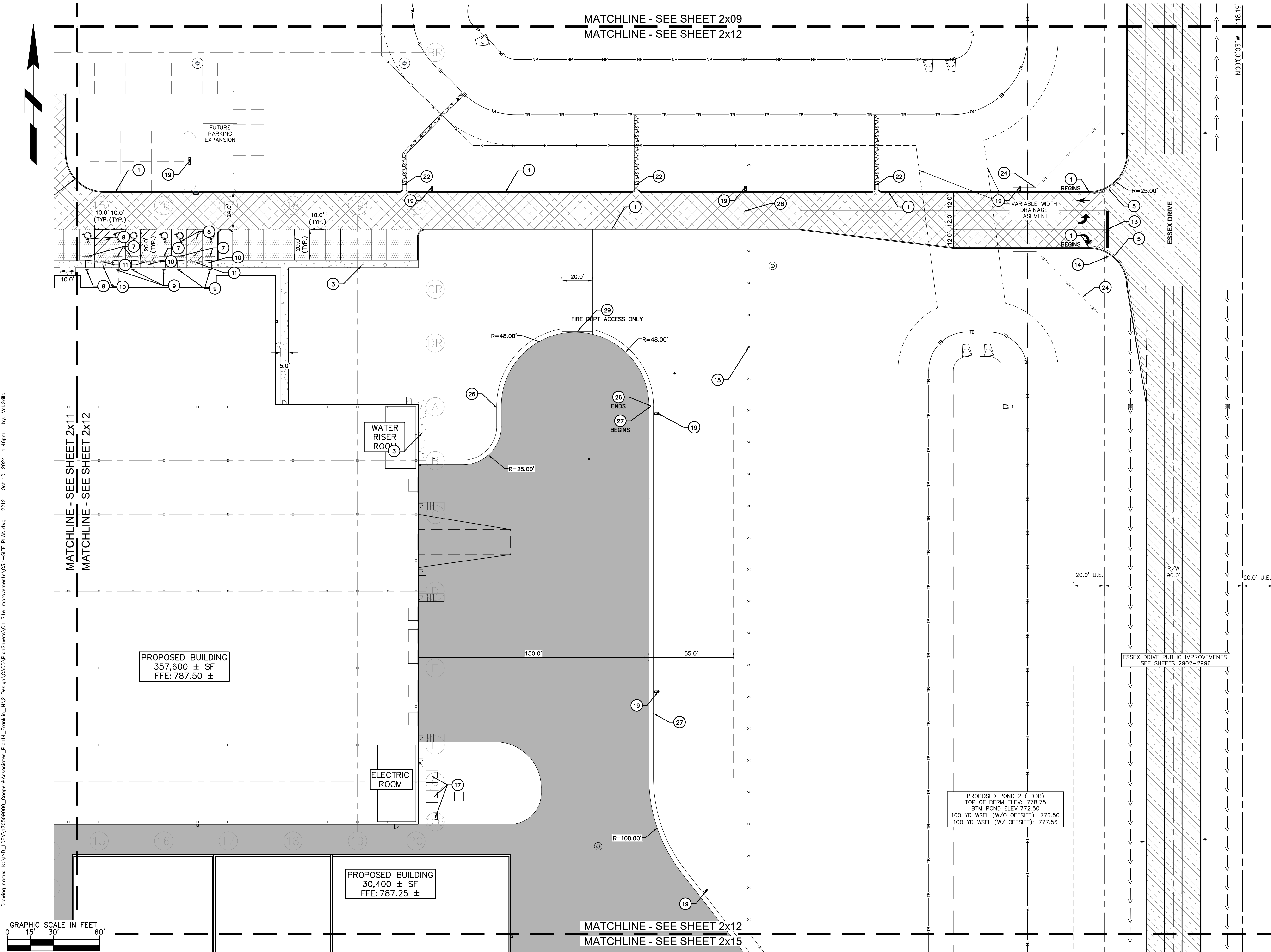
DWG. NO.
2212

SHEET
REV 0

TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN



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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

PROPOSED POND 2 (EODB)
TOP OF BERM ELEV: 778.75
BTM POND ELEV: 772.50
100 YR WSEL (W/O OFFSITE): 776.50
100 YR WSEL (W/ OFFSITE): 777.56

PROPOSED BUILDING
357,600 ± SF
FFE: 787.50 ±

PROPOSED BUILDING
30,400 ± SF
FFE: 787.25 ±

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PAVEMENT LEGEND

	STANDARD DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	HEAVY DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	RIGHT OF WAY PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION & SHEETS 2902-2996 FOR MORE DETAILS
	CONCRETE SIDEWALK SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	HEAVY DUTY CONCRETE PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

EXISTING LEGEND

	BOLLARD		MISC LID		YARD LIGHT		TELEPHONE HAND HOLE
	CONTROL BENCHMARK		MONITOR WELL		SANITARY CLEANOUT		TELEPHONE MARKER
	ROW MONUMENT		GAS MARKER		SANITARY MANHOLE		TELEPHONE MANHOLE
	FLAG POLE		GAS METER		VENT PIPE		FIBER OPTIC MARKER
	MAIL BOX		GAS VALVE		STORM CURB INLET		GUY POLE/WIRE
	UTILITY POLE		AC UNIT		STORM INLET		POWER POLE
	POST		AREA LIGHT		STORM ROOF DRAIN		TRAFFIC SIGNAL POLE
	SOIL BORING		ELECTRICAL BOX		STORM DRAIN MANHOLE		TRAFFIC MANHOLE
	HANDICAP SYMBOL		ELECTRICAL HAND HOLE		STORM YARD DRAIN		WELL
	SIGN		ELECTRICAL METER		FIRE DEPT CONNECTION		WATER VALVE
	CABLE MANHOLE		ELECTRICAL MANHOLE		FIRE HYDRANT		WATER VALVE
	CABLE PEDESTAL		ELECTRICAL MARKER		IRRIGATION VALVE		TREE / STUMP
	TELEPHONE PEDESTAL		ELECTRICAL TRANSFORMER		POST INDICATOR VALVE		
	SEWER		TOE OF SLOPE				
	FENCE LINE		TOP OF BANK				
	SANITARY SEWER		UNDERGROUND FIBER OPTIC				
	STORM DRAIN		OVERHEAD ELECTRICAL				
	WATER LINE		UNDERGROUND GAS				
	TREE LINE		UNDERGROUND TELEPHONE				

KEY NOTES

- CONCRETE CURB, TYP. (SEE DETAILS)
- DEPRESSED CONCRETE CURB AND GUTTER (SEE DETAILS)
- CONCRETE SIDEWALK, TYP. (SEE DETAILS)
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- ACCESSIBLE PAVEMENT MARKINGS, TYP. (SEE DETAILS)
- ACCESSIBLE PARKING SIGN, TYP. (SEE PLAN FOR VAN LOCATION) (MUTCD R7-8, SEE DETAILS)
- ACCESSIBLE RAMP (SEE DETAILS)
- 2' WIDE TACTILE WARNING STRIP
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- 24" WIDE STOP BAR, TYP. (SEE DETAILS)
- STOP SIGN, TYP. (MUTCD R1-1, SEE DETAILS)
- FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
- CONCRETE PROTECTIVE BOLLARD
- TRANSFORMER PAD (REFER TO UTILITY PROVIDER)
- MONUMENT SIGN (SEE ARCHITECTURAL PLANS FOR DETAILS)
- LIGHT POLES SHOWN FOR COORDINATION ONLY (SEE SITE LIGHTING PLAN)
- STORAGE PALLETS (SEE ARCHITECTURAL PLAN FOR DETAILS)
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- BIKE RACK
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- LEVEL SPREADER WITH PERFORATED UNDERDRAIN (SEE DETAILS)
- AUTOMATED SLIDING GATE (SEE ARCHITECTURAL PLANS FOR DETAILS)
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- RAISED CONCRETE MEDIAN WITH ACCESS KIOSK (SEE ARCHITECTURAL PLANS FOR DETAILS)

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

Kimley»Horn

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KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2213

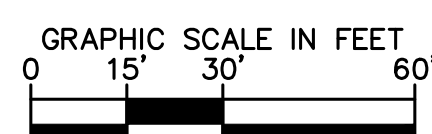
TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

SHEET
REV 0

MATCHLINE - SEE SHEET 2x10
MATCHLINE - SEE SHEET 2x13

RAILROAD IMPROVEMENTS
SEE DESIGN BY OTHERS FOR
CROSS SECTIONS & ELEVATIONS

MATCHLINE - SEE SHEET 2x13
MATCHLINE - SEE SHEET 2x14



PROFESSIONAL SEAL



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Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

SCALE: AS NOTED
DRWN.: VG
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PAVEMENT LEGEND

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EXISTING LEGEND

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	CONTROL BENCHMARK		MONITOR WELL		SANITARY CLEANOUT		TELEPHONE MARKER
	ROW MONUMENT		GAS MARKER		SANITARY MANHOLE		TELEPHONE MANHOLE
	FLAG POLE		GAS METER		VENT PIPE		FIBER OPTIC MARKER
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	HANDICAP SYMBOL		ELECTRICAL HAND HOLE		STORM YARD DRAIN		WELL
	SIGN		ELECTRICAL METER		FIRE DEPT CONNECTION		WATER METER
	CABLE MANHOLE		ELECTRICAL MANHOLE		FIRE HYDRANT		WATER VALVE
	CABLE PEDESTAL		ELECTRICAL MARKER		IRRIGATION VALVE		TREE / STUMP
	TELEPHONE PEDESTAL		ELECTRICAL TRANSFORMER		POST INDICATOR VALVE		
	SWALE		TOE OF SLOPE				
	FENCE LINE		TOP OF BANK				
	SANITARY SEWER		UNDERGROUND FIBER OPTIC				
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	WATER LINE		UNDERGROUND GAS				
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KEY NOTES

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GENERAL PLAN NOTES

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KHA PROJECT # 170509000



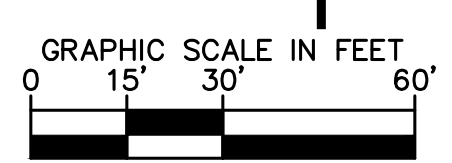
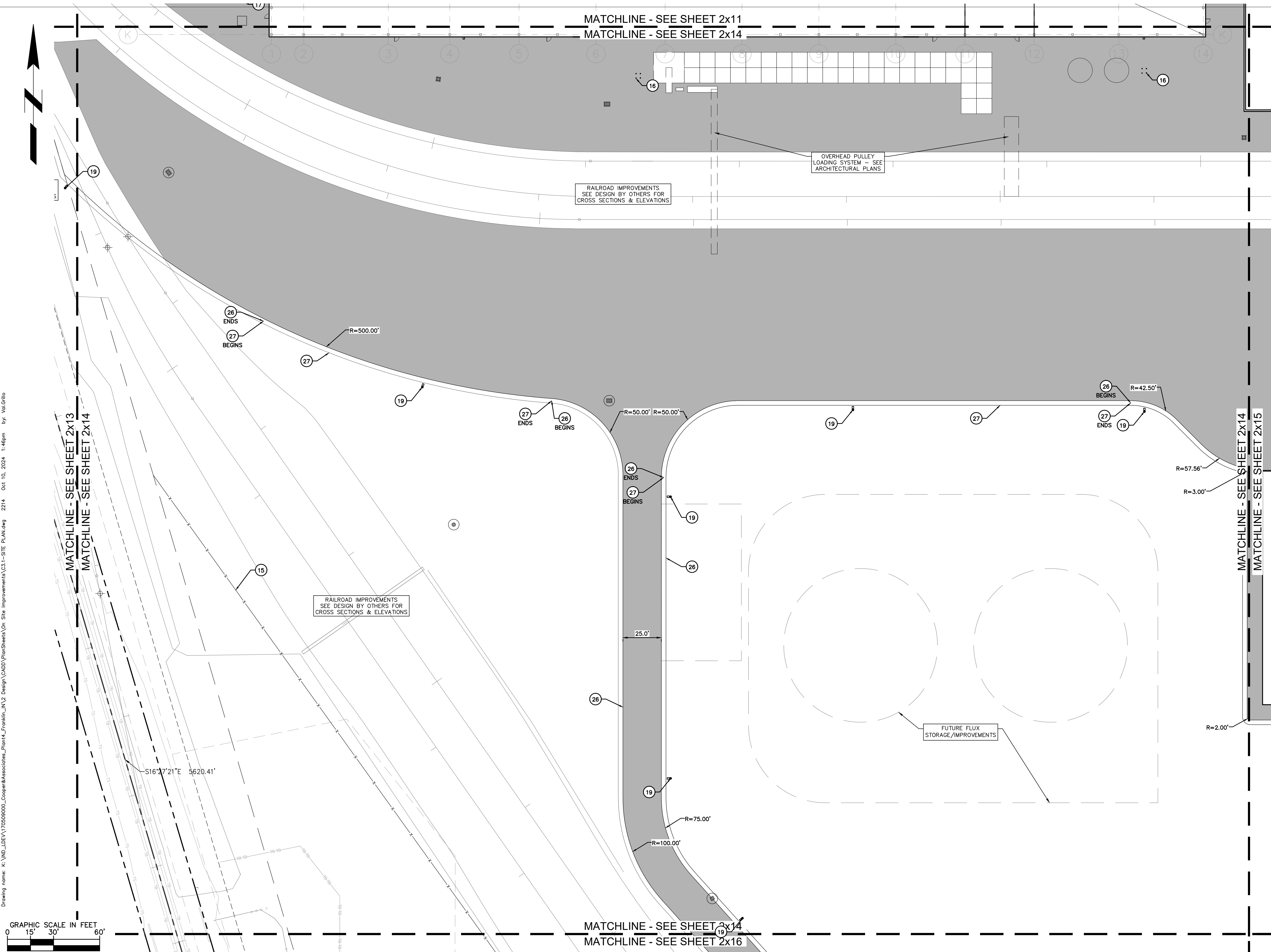
MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2214

TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

SHEET
REV 0



PROFESSIONAL SEAL

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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24

Cooper & Associates, LLC

Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
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PAVEMENT LEGEND

- STANDARD DUTY ASPHALT PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- HEAVY DUTY ASPHALT PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- RIGHT OF WAY PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION & SHEETS 2902-2996 FOR MORE DETAILS
- CONCRETE SIDEWALK
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- HEAVY DUTY CONCRETE PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

EXISTING LEGEND

- | | | | |
|----------------------|--------------------------|------------------------|-----------------------|
| ○ BOLLARD | ○ MISC LID | ○ YARD LIGHT | ○ TELEPHONE HAND HOLE |
| ⊕ CONTROL BENCHMARK | ⊕ MONITOR WELL | ⊕ SANITARY CLEANOUT | ⊕ TELEPHONE MARKER |
| ⊕ ROW MONUMENT | ⊕ GAS MARKER | ⊕ SANITARY MANHOLE | ⊕ TELEPHONE MANHOLE |
| ⊕ FLAG POLE | ⊕ GAS METER | ⊕ VENT PIPE | ⊕ FIBER OPTIC MARKER |
| ⊕ MAIL BOX | ⊕ GAS VALVE | ⊕ STORM CURB INLET | ⊕ GUY POLE/WIRE |
| ○ UTILITY POLE | ⊕ AC UNIT | ⊕ STORM INLET | ⊕ POWER POLE |
| ○ POST | ⊕ AREA LIGHT | ⊕ STORM ROOF DRAIN | ⊕ TRAFFIC SIGNAL POLE |
| ⊕ SOIL BORING | ⊕ ELECTRICAL BOX | ⊕ STORM DRAIN MANHOLE | ⊕ TRAFFIC MANHOLE |
| ⊕ HANDICAP SYMBOL | ⊕ ELECTRICAL HAND HOLE | ⊕ STORM YARD DRAIN | ⊕ WELL |
| ⊕ SIGN | ⊕ ELECTRICAL METER | ⊕ FIRE DEPT CONNECTION | ⊕ WATER METER |
| ⊕ CABLE MANHOLE | ⊕ ELECTRICAL MANHOLE | ⊕ FIRE HYDRANT | ⊕ WATER VALVE |
| ⊕ CABLE PEDESTAL | ⊕ ELECTRICAL MARKER | ⊕ IRRIGATION VALVE | ⊕ TREE / STUMP |
| ⊕ TELEPHONE PEDESTAL | ⊕ ELECTRICAL TRANSFORMER | ⊕ POST INDICATOR VALVE | |

KEY NOTES

1. CONCRETE CURB, TYP. (SEE DETAILS)
2. DEPRESSED CONCRETE CURB AND GUTTER (SEE DETAILS)
3. CONCRETE SIDEWALK, TYP. (SEE DETAILS)
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13. 24" WIDE STOP BAR, TYP. (SEE DETAILS)
14. STOP SIGN, TYP. (MUTCD R1-1, SEE DETAILS)
15. FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
16. CONCRETE PROTECTIVE BOLLARD
17. TRANSFORMER PAD (REFER TO UTILITY PROVIDER)
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24. STEEL BEAM GUARDRAIL (SEE DETAILS)
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26. LEVEL SPREADER WITHOUT PERFORATED UNDERDRAIN (SEE DETAILS)
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GENERAL PLAN NOTES

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KHA PROJECT # 170509000



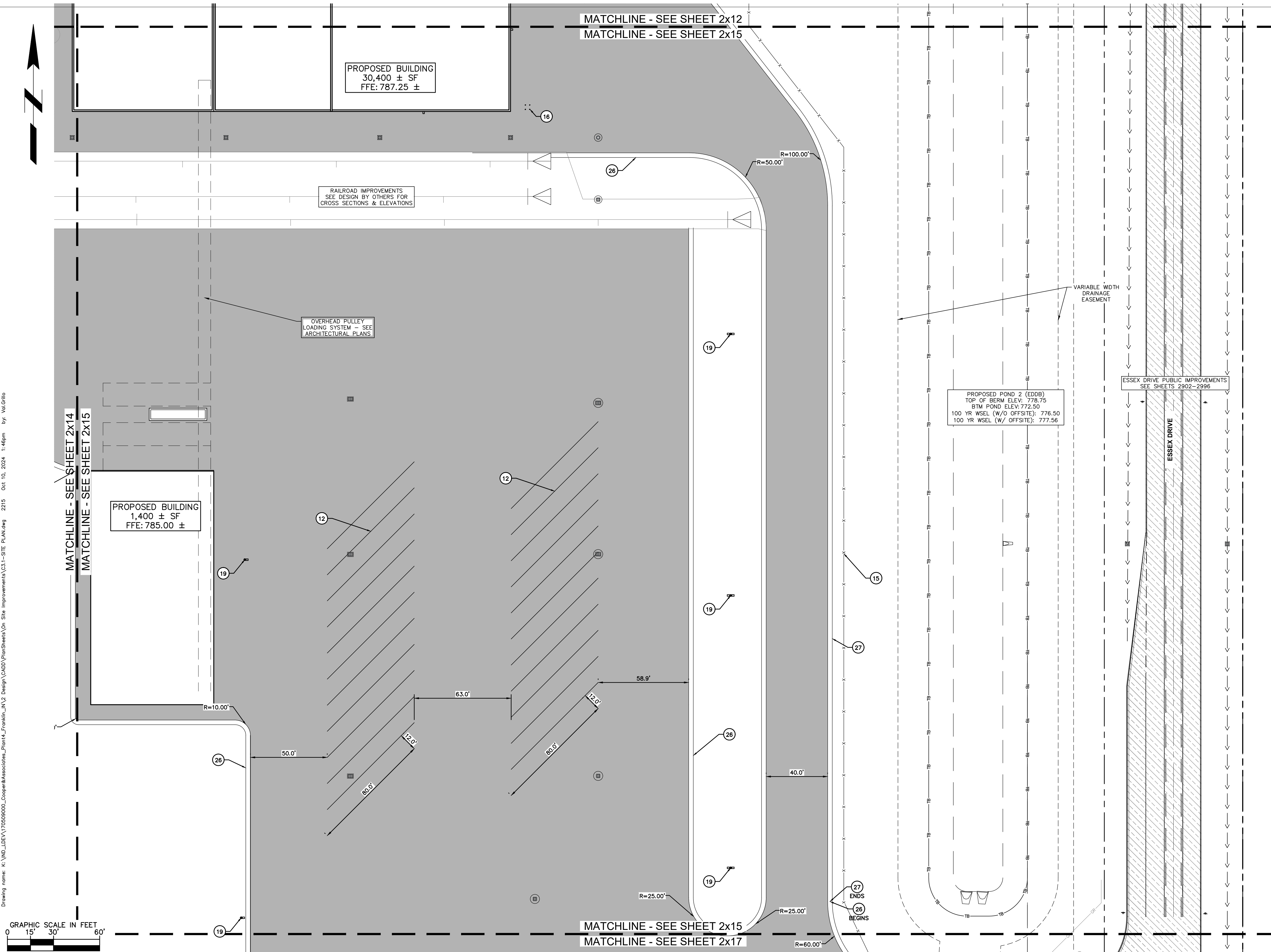
MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2215

TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

SHEET
REV 0



PROFESSIONAL SEAL

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DWG SIZE: 36" X 24"

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Quad Plus
Cooper & Associates, LLC

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PAVEMENT LEGEND

- STANDARD DUTY ASPHALT PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- HEAVY DUTY ASPHALT PAVEMENT
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EXISTING LEGEND

- | | | | |
|--------------------|------------------------|----------------------|---------------------|
| BOLLARD | MISC LID | YARD LIGHT | TELEPHONE HAND HOLE |
| CONTROL BENCHMARK | MONITOR WELL | SANITARY CLEANOUT | TELEPHONE MARKER |
| ROW MONUMENT | GAS MARKER | SANITARY MANHOLE | FIBER OPTIC MARKER |
| FLAG POLE | GAS METER | VENT PIPE | GUY POLE/WIRE |
| MAIL BOX | GAS VALVE | STORM CURB INLET | POWER POLE |
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| POST | AREA LIGHT | STORM ROOF DRAIN | TRAFFIC MANHOLE |
| SOIL BORING | ELECTRICAL BOX | STORM DRAIN MANHOLE | WELL |
| HANDICAP SYMBOL | ELECTRICAL HAND HOLE | STORM YARD DRAIN | WATER METER |
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MALARKEY,IND FRANKLIN,IN

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170509000

DWG. NO.
2216

TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

SHEET
REV 0

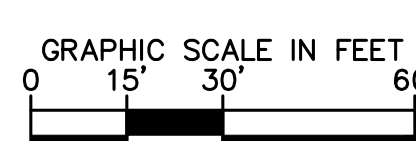
MATCHLINE - SEE SHEET 2x14
MATCHLINE - SEE SHEET 2x16

RAILROAD IMPROVEMENTS
SEE DESIGN BY OTHERS FOR
CROSS SECTIONS & ELEVATIONS

R=75.00'
R=100.00'

PROPOSED POND 1 (WET)
TOP OF BERM ELEV: 778.01
NORMAL POND ELEV: 771.00
100 YR WSEL (W/O OFFSITE): 774.81
100 YR WSEL (W/ OFFSITE): 775.51
BTM: 763.00-761.00

MATCHLINE - SEE SHEET 2x16
MATCHLINE - SEE SHEET 2x18



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INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT
IS SPECIFICALLY FURNISHED.
DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

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Cooper & Associates, LLC
Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

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PAVEMENT LEGEND

- STANDARD DUTY ASPHALT PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- HEAVY DUTY ASPHALT PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- RIGHT OF WAY PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION & SHEETS 2902-2996 FOR MORE DETAILS
- CONCRETE SIDEWALK
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- HEAVY DUTY CONCRETE PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

EXISTING LEGEND

- | | | | |
|--------------------|----------------------------|----------------------|---------------------|
| BOLLARD | MISC LID | YARD LIGHT | TELEPHONE HAND HOLE |
| CONTROL BENCHMARK | MONITOR WELL | SANITARY CLEANOUT | TELEPHONE MARKER |
| ROW MONUMENT | GAS MARKER | SANITARY MANHOLE | TELEPHONE MANHOLE |
| FLAG POLE | GAS METER | VENT PIPE | FIBER OPTIC MARKER |
| MAIL BOX | GAS VALVE | STORM CURB INLET | GUY POLE/WIRE |
| UTILITY POLE | AC UNIT | STORM INLET | POWER POLE |
| POST | AREA LIGHT | STORM ROOF DRAIN | TRAFFIC SIGNAL POLE |
| SOIL BORING | ELECTRICAL BOX | STORM DRAIN MANHOLE | TRAFFIC MANHOLE |
| HANDICAP SYMBOL | ELECTRICAL HAND HOLE | STORM YARD DRAIN | WELL |
| SIGN | ELECTRICAL METER | FIRE DEPT CONNECTION | WATER METER |
| CABLE MANHOLE | ELECTRICAL MANHOLE | FIRE HYDRANT | WATER VALVE |
| CABLE PEDESTAL | ELECTRICAL MARKER | IRRIGATION VALVE | TREE / STUMP |
| TELEPHONE PEDESTAL | ELECTRICAL TRANSFORMER | POST INDICATOR VALVE | |
| SWALE | TOE OF SLOPE | | |
| FENCE LINE | TOP OF BANK | | |
| SS SANITARY SEWER | UG UNDERGROUND FIBER OPTIC | | |
| SD STORM DRAIN | OH OVERHEAD ELECTRICAL | | |
| W WATER LINE | UG UNDERGROUND GAS | | |
| TREE LINE | UG UNDERGROUND TELEPHONE | | |

KEY NOTES

1. CONCRETE CURB, TYP. (SEE DETAILS)
2. DEPRESSED CONCRETE CURB AND GUTTER (SEE DETAILS)
3. CONCRETE SIDEWALK, TYP. (SEE DETAILS)
4. COMBINED CURB AND WALK (SEE DETAIL) (5' FROM FACE OF CURB)
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6. CONNECT TO EXISTING PAVEMENT, SIDEWALK, CURB, TYP.
7. CONCRETE PARKING BUMPER TYP. (SEE DETAILS)
8. ACCESSIBLE PAVEMENT MARKINGS, TYP. (SEE DETAILS)
9. ACCESSIBLE PARKING SIGN, TYP. (SEE PLAN FOR VAN LOCATION) (MUTCD R7-8, SEE DETAILS)
10. ACCESSIBLE RAMP (SEE DETAILS)
11. 2' WIDE TACTILE WARNING STRIP
12. 4" WIDE PAVEMENT MARKING, WHITE SOLID LINE, TYP.
13. 24" WIDE STOP BAR, TYP. (SEE DETAILS)
14. STOP SIGN, TYP. (MUTCD R1-1, SEE DETAILS)
15. FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
16. CONCRETE PROTECTIVE BOLLARD
17. TRANSFORMER PAD (REFER TO UTILITY PROVIDER)
18. MONUMENT SIGN (SEE ARCHITECTURAL PLANS FOR DETAILS)
19. LIGHT POLES SHOWN FOR COORDINATION ONLY (SEE SITE LIGHTING PLAN)
20. STORAGE PALLETS (SEE ARCHITECTURAL PLAN FOR DETAILS)
21. CONTROLLED ENTRANCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
22. 2' CURB TURNOUT (SEE DETAILS)
23. 3-FT TRANSITION CURB (SEE DETAILS)
24. STEEL BEAM GUARDRAIL (SEE DETAILS)
25. BIKE RACK
26. LEVEL SPREADER WITHOUT PERFORATED UNDERDRAIN (SEE DETAILS)
27. LEVEL SPREADER WITH PERFORATED UNDERDRAIN (SEE DETAILS)
28. AUTOMATED SLIDING GATE (SEE ARCHITECTURAL PLANS FOR DETAILS)
29. MANUAL OPERATED SLIDING GATE (SEE ARCHITECTURAL PLANS FOR DETAILS)
30. RAISED CONCRETE MEDIAN WITH ACCESS KIOSK (SEE ARCHITECTURAL PLANS FOR DETAILS)

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)



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KHA PROJECT # 170509000



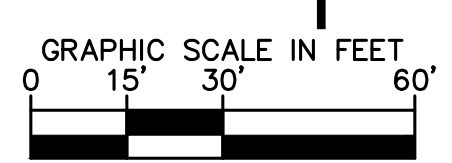
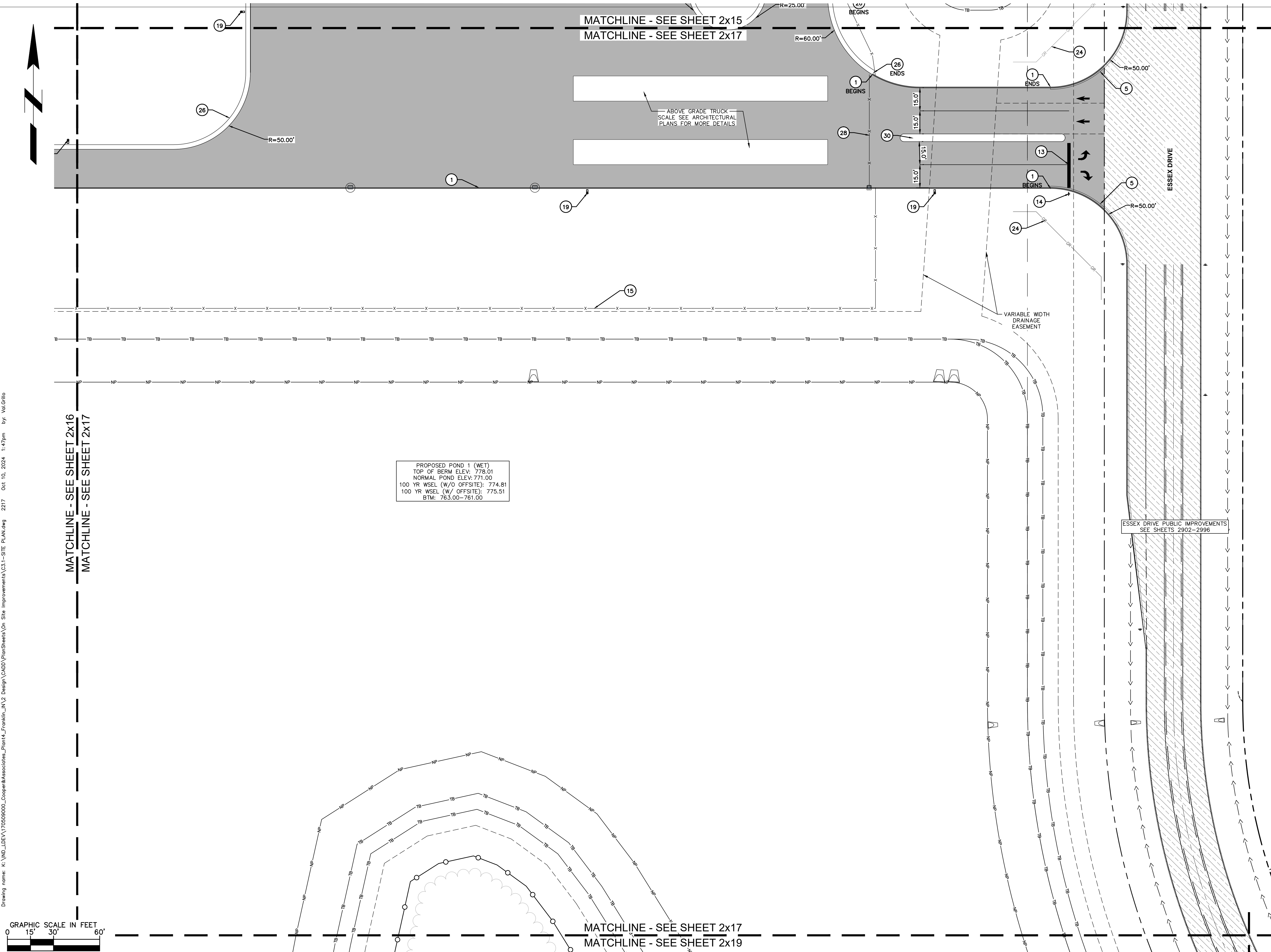
MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2217

TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

SHEET
REV 0



PROFESSIONAL SEAL

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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED

DRWN.: VG

CHKD.: AMM

APPD.: [Signature]

APPD.: [Signature]

DATE : 10/10/24

Cooper & Associates, LLC

Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com

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PAVEMENT LEGEND

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SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- HEAVY DUTY ASPHALT PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- RIGHT OF WAY PAVEMENT
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION & SHEETS 2902-2996 FOR MORE DETAILS
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SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
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SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

EXISTING LEGEND

- | | | | |
|----------------------|--------------------------|------------------------|-----------------------|
| ○ BOLLARD | ○ MISC LID | ○ YARD LIGHT | ○ TELEPHONE HAND HOLE |
| ⊕ CONTROL BENCHMARK | ⊕ MONITOR WELL | ⊕ SANITARY CLEANOUT | ⊕ TELEPHONE MARKER |
| ⊕ ROW MONUMENT | ⊕ GAS MARKER | ⊕ SANITARY MANHOLE | ⊕ TELEPHONE MANHOLE |
| ⊕ FLAG POLE | ⊕ GAS METER | ⊕ VENT PIPE | ⊕ FIBER OPTIC MARKER |
| ⊕ MAIL BOX | ⊕ GAS VALVE | ⊕ STORM CURB INLET | ⊕ GUY POLE/WIRE |
| ○ UTILITY POLE | ⊕ AC UNIT | ⊕ STORM INLET | ⊕ POWER POLE |
| ○ POST | ⊕ AREA LIGHT | ⊕ STORM ROOF DRAIN | ⊕ TRAFFIC SIGNAL POLE |
| ⊕ SOIL BORING | ⊕ ELECTRICAL BOX | ⊕ STORM DRAIN MANHOLE | ⊕ TRAFFIC MANHOLE |
| ⊕ HANDICAP SYMBOL | ⊕ ELECTRICAL HAND HOLE | ⊕ STORM YARD DRAIN | ⊕ WELL |
| ⊕ SIGN | ⊕ ELECTRICAL METER | ⊕ FIRE DEPT CONNECTION | ⊕ WATER METER |
| ⊕ CABLE MANHOLE | ⊕ ELECTRICAL MANHOLE | ⊕ FIRE HYDRANT | ⊕ WATER VALVE |
| ⊕ CABLE PEDESTAL | ⊕ ELECTRICAL MARKER | ⊕ IRRIGATION VALVE | ⊕ TREE / STUMP |
| ⊕ TELEPHONE PEDESTAL | ⊕ ELECTRICAL TRANSFORMER | ⊕ POST INDICATOR VALVE | |
-
- | | |
|---------------------|------------------------------|
| — SWALE | — TS TOE OF SLOPE |
| — X FENCE LINE | — TB TOP OF BANK |
| — SS SANITARY SEWER | — FB UNDERGROUND FIBER OPTIC |
| — SD STORM DRAIN | — OHE OVERHEAD ELECTRICAL |
| — W WATER LINE | — GAS UNDERGROUND GAS |
| — TREE LINE | — TEL UNDERGROUND TELEPHONE |

KEY NOTES

1. CONCRETE CURB, TYP. (SEE DETAILS)
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12. 4" WIDE PAVEMENT MARKING, WHITE SOLID LINE, TYP.
13. 24" WIDE STOP BAR, TYP. (SEE DETAILS)
14. STOP SIGN, TYP. (MUTCD R1-1, SEE DETAILS)
15. FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
16. CONCRETE PROTECTIVE BOLLARD
17. TRANSFORMER PAD (REFER TO UTILITY PROVIDER)
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KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

PROJ. NO.
170509000

DWG. NO.
2218

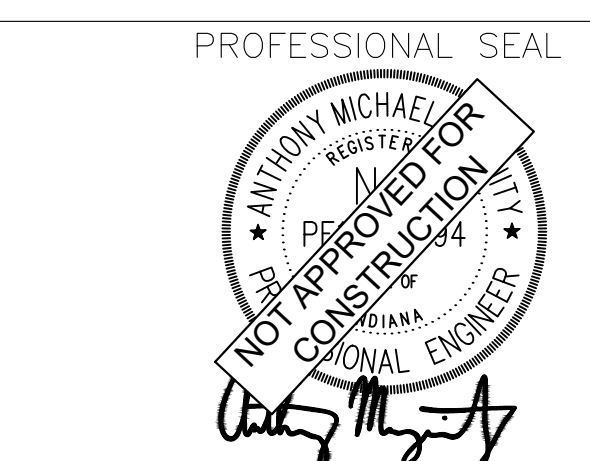
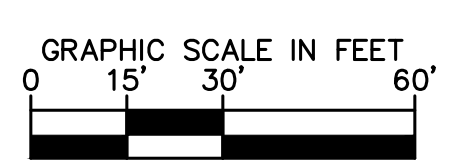
SHEET
REV 0

MATCHLINE - SEE SHEET 2x16
MATCHLINE - SEE SHEET 2x18

PROPOSED POND 1 (WET)
TOP OF BERM ELEV: 778.01
NORMAL POND ELEV: 771.00
100 YR WSEL (W/O OFFSITE): 774.81
100 YR WSEL (W/ OFFSITE): 775.51
BTM: 763.00-761.00

50.0' SETBACK, TYP.

MATCHLINE - SEE SHEET 2x18
MATCHLINE - SEE SHEET 2x19



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SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24



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PAVEMENT LEGEND

	STANDARD DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	HEAVY DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	RIGHT OF WAY PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION & SHEETS 2902-2996 FOR MORE DETAILS
	CONCRETE SIDEWALK SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
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EXISTING LEGEND

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- 24" WIDE STOP BAR, TYP. (SEE DETAILS)
- STOP SIGN, TYP. (MUTCD R1-1, SEE DETAILS)
- FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
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GENERAL PLAN NOTES

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KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2219

TITLE- PHASE 2 - FINAL BUILDOUT
SITE PLAN

SHEET
REV 0

MATCHLINE - SEE SHEET 2x17
MATCHLINE - SEE SHEET 2x19

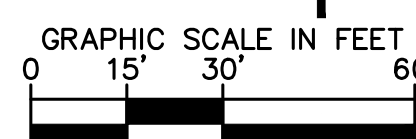
ESSEX DRIVE PUBLIC IMPROVEMENTS
SEE SHEETS 2902-2996

PROPOSED POND 1 (WET)
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NORMAL POND ELEV: 771.00
100 YR WSEL (W/O OFFSITE): 774.81
100 YR WSEL (W/ OFFSITE): 775.51
BTM: 763.00-761.00

EXISTING WETLANDS
TO REMAIN
UNDISTURBED DURING
THE ENTIRE
DURATION OF THE
CONSTRUCTION

N88°40'48"E 1321.63'

20.0' U.E.



PROFESSIONAL SEAL



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DWG SIZE: 36" X 24"

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PAVEMENT LEGEND

	STANDARD DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
	HEAVY DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
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EXISTING LEGEND

	BOLLARD		MISC LID		YARD LIGHT		TELEPHONE HAND HOLE
	CONTROL BENCHMARK		MONITOR WELL		SANITARY CLEANOUT		TELEPHONE MARKER
	FLAG POLE		GAS MARKER		SANITARY MANHOLE		TELEPHONE MANHOLE
	MAIL BOX		GAS METER		VENT PIPE		FIBER OPTIC MARKER
	UTILITY POLE		GAS VALVE		STORM CURB INLET		GUY POLE/WIRE
	POST		AC UNIT		STORM INLET		POWER POLE
	SOIL BORING		AREA LIGHT		STORM ROOF DRAIN		TRAFFIC SIGNAL POLE
	HANDICAP SYMBOL		ELECTRICAL BOX		STORM DRAIN MANHOLE		TRAFFIC MANHOLE
	SIGN		ELECTRICAL HAND HOLE		STORM YARD DRAIN		WELL
	CABLE MANHOLE		ELECTRICAL METER		FIRE DEPT CONNECTION		WATER METER
	CABLE PEDESTAL		ELECTRICAL MANHOLE		FIRE HYDRANT		WATER VALVE
	TELEPHONE PEDESTAL		ELECTRICAL MARKER		IRRIGATION VALVE		TREE / STUMP
			ELECTRICAL TRANSFORMER		POST INDICATOR VALVE		
	SS - SEWER LINE		TS - TOE OF SLOPE				
	X - FENCE LINE		TB - TOP OF BANK				
	SS - SANITARY SEWER		FB - UNDERGROUND FIBER OPTIC				
	SD - STORM DRAIN		OE - OVERHEAD ELECTRICAL				
	W - WATER LINE		GS - UNDERGROUND GAS				
	TL - TREE LINE		TEL - UNDERGROUND TELEPHONE				

KEY NOTES

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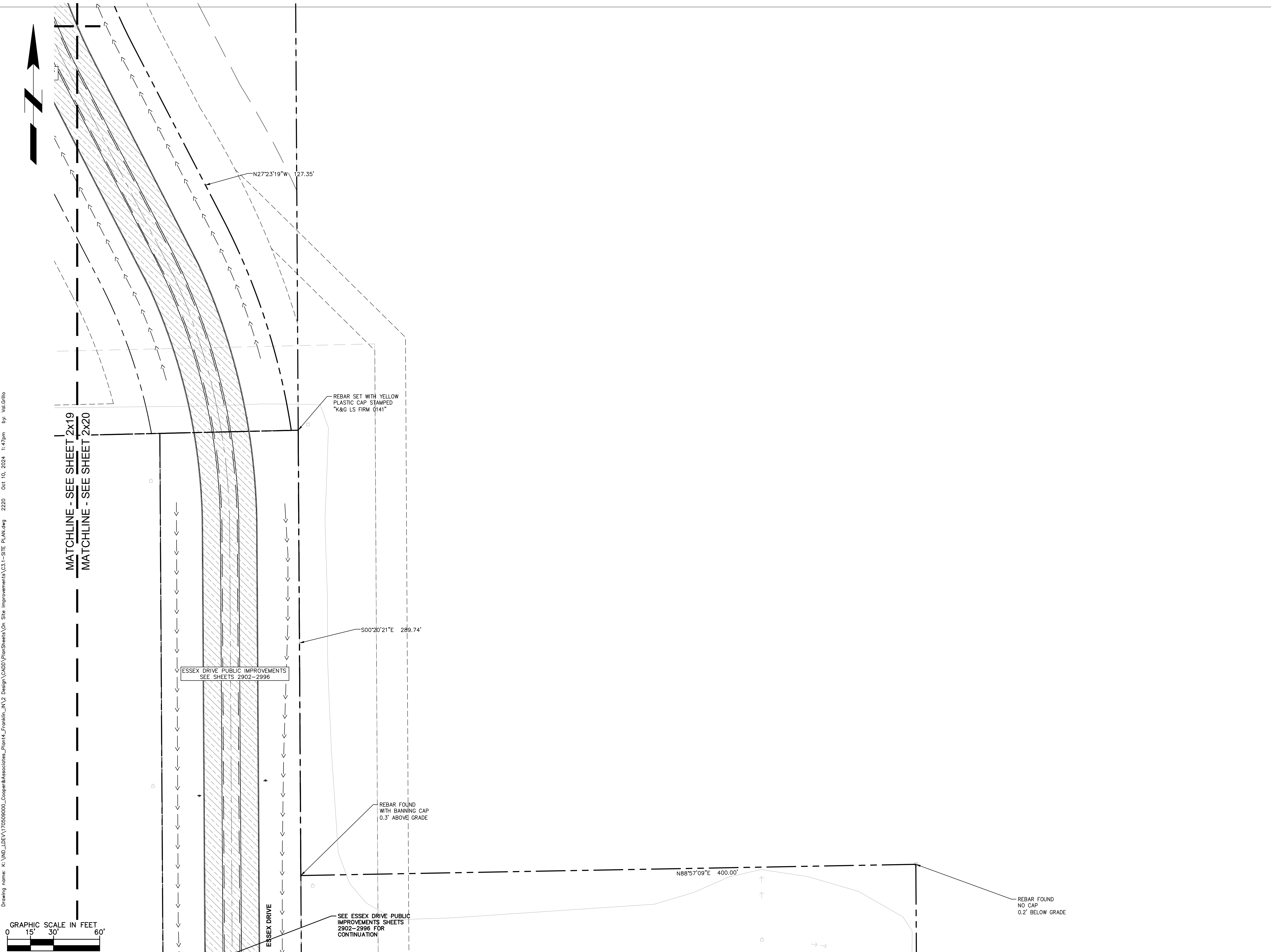
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PROJ. NO.
170509000

DWG. NO.
2220

TITLE - PHASE 2 - FINAL BUILDOUT
SITE PLAN

SHEET
REV 0



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DWG SIZE: 36" X 24"

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SCALE: AS NOTED

DRWN.: VG

CHKD.: AMM

APPD.:

APPD.:

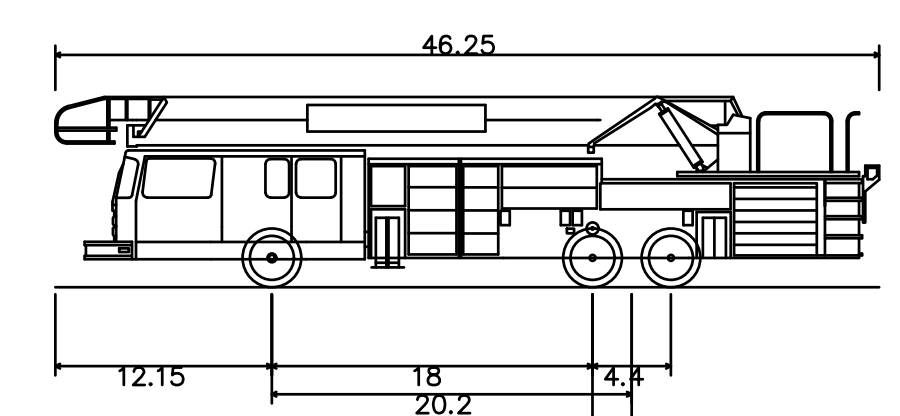
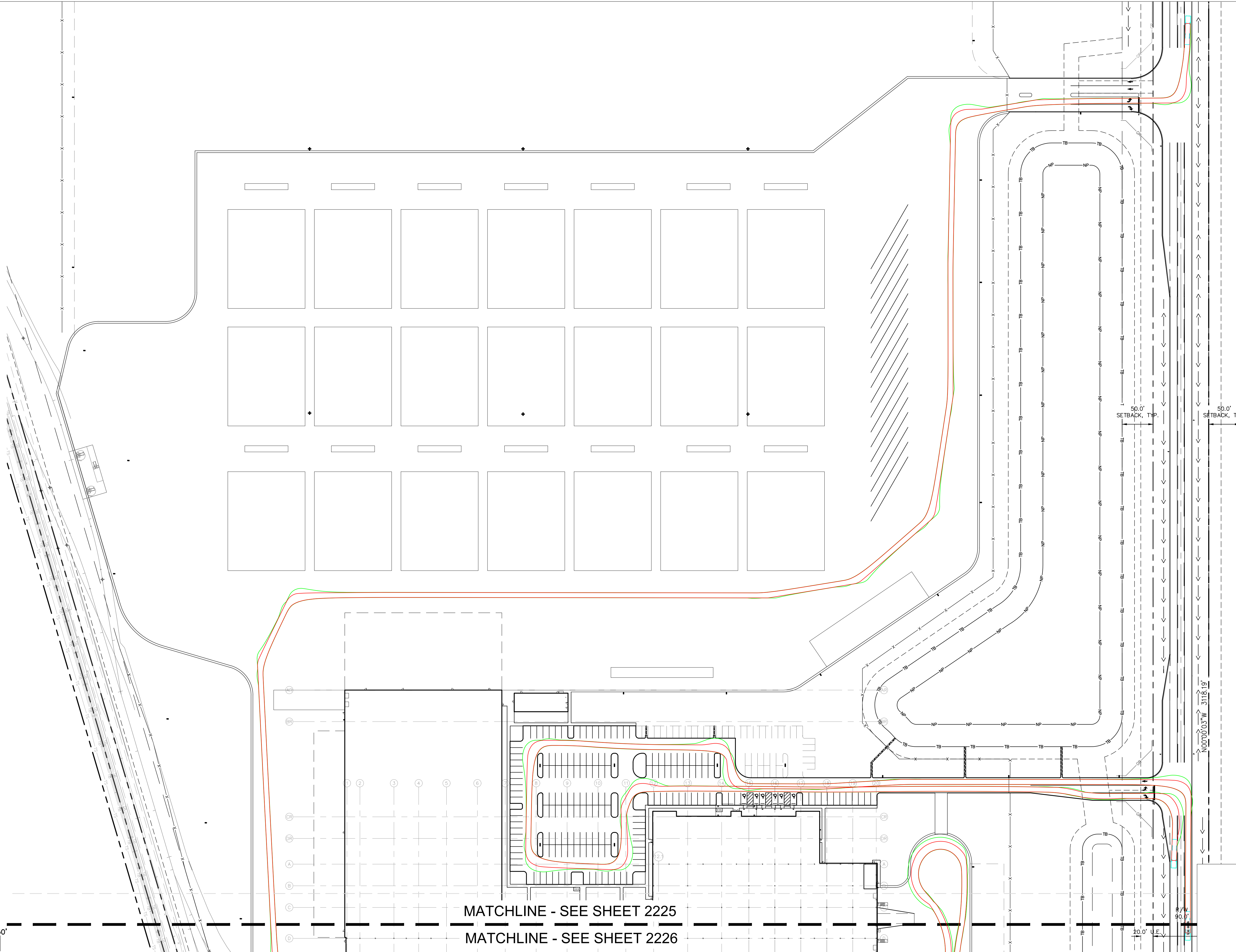
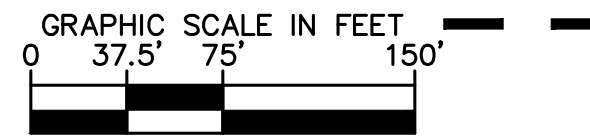
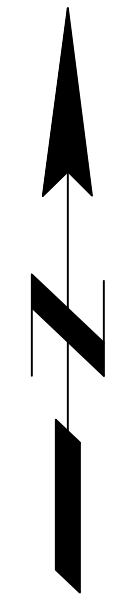
DATE : 10/10/24

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Fire Truck - Aerial Franklin
 Overall Length 46.25ft
 Overall Width 8.33ft
 Overall Body Height 10.68ft
 Min Body Ground Clearance 1.12ft
 Track Width 8.00ft
 Lock-to-lock time 6.00s
 Curb to Curb Turning Radius 34.42ft

Kimley»Horn

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 KHA PROJECT # 170509000



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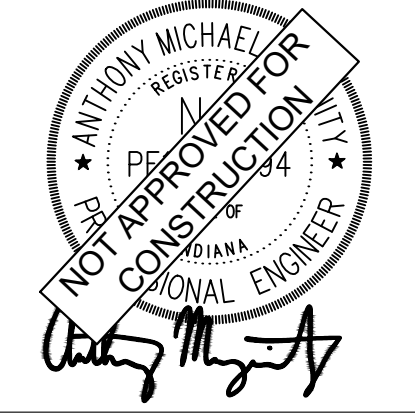
PHASE 2 - FINAL BUILDOUT
 FIRE TRUCK PLAN

PROJ. NO.
170509000

DWG. NO.
2225

SHEET
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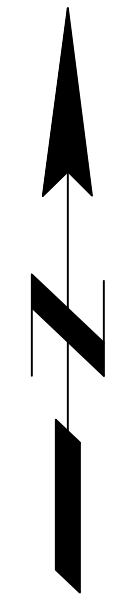
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SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
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 DATE : 10/10/24



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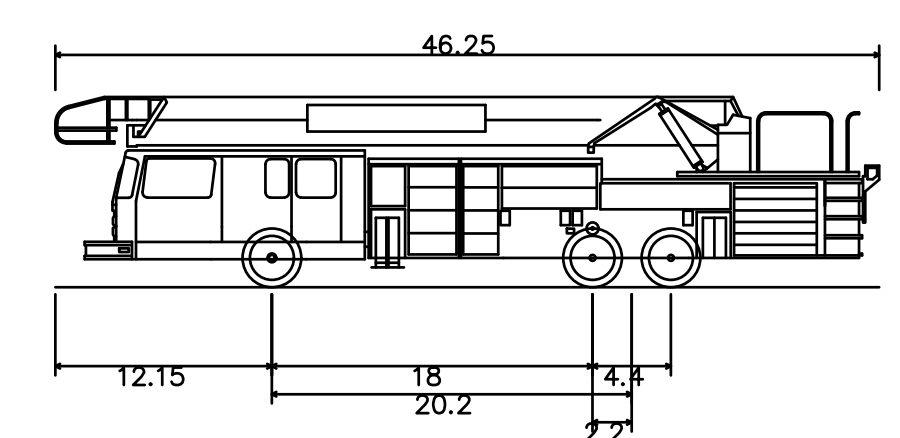
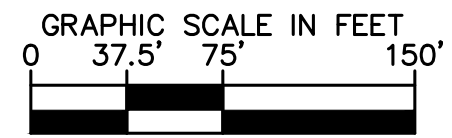
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MATCHLINE - SEE SHEET 2225
 MATCHLINE - SEE SHEET 2226

NORTHING: 1559671.23
 EASTING: 215162.85

S 62° 27' 21" E 5620.41'



Fire Truck - Aerial Franklin
 Overall Length 46.250ft
 Overall Width 8.330ft
 Overall Body Height 10.682ft
 Min Body Ground Clearance 1.112ft
 Track Width 8.000ft
 Lock-to-lock time 6.00s
 Curb to Curb Turning Radius 34.420ft

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SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24

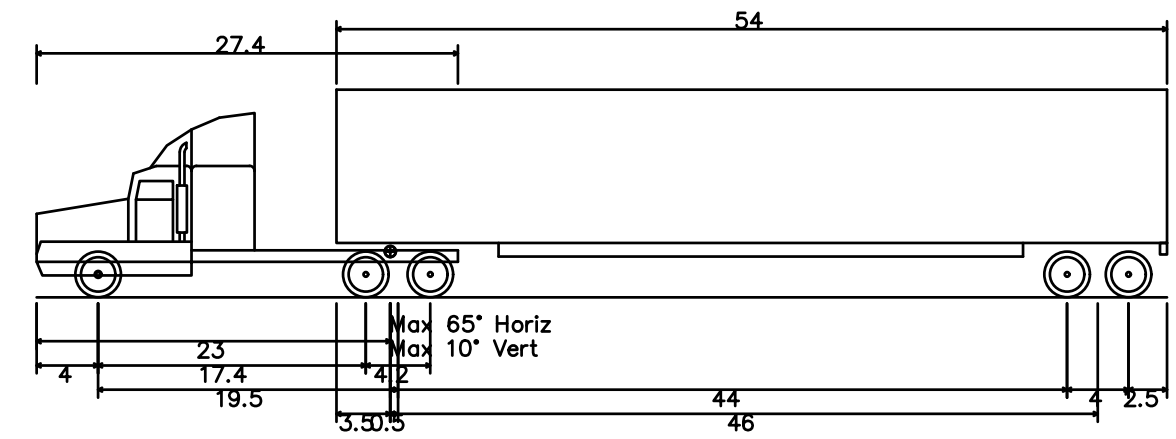
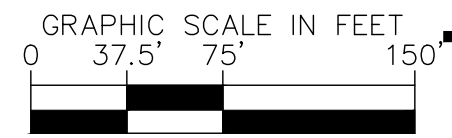
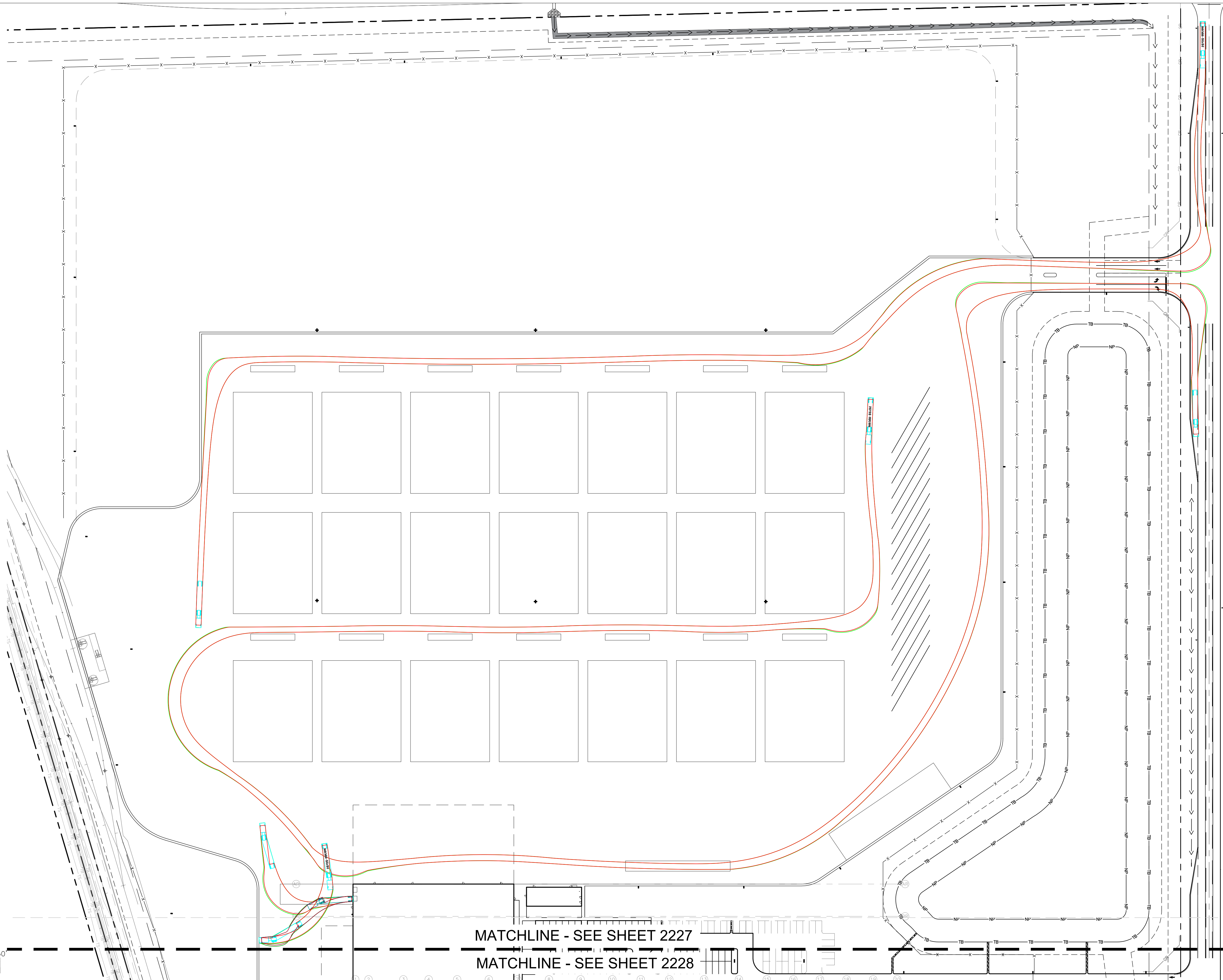
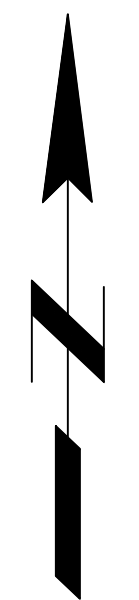
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 DWG SIZE: 36" X 24"



PROJ. NO. 170509000
DWG. NO. 2226
SHEET 0
REV 0

TITLE - PHASE 2 - FINAL BUILDOUT
 FIRE TRUCK PLAN

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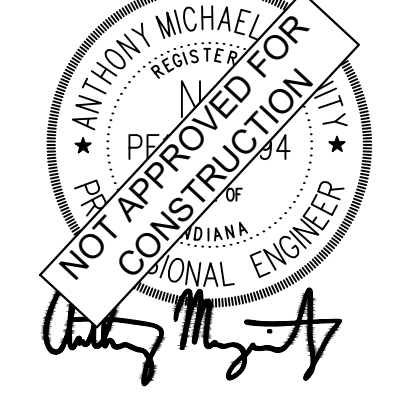
Interstate Semitrailer - WB-65 or WB-67
 Overall Length 73.50ft
 Overall Width 8.50ft
 Overall Body Height 13.50ft
 Min Body Ground Clearance 1.422ft
 Track Width 8.50ft
 Lock-to-lock time 6.00s
 Curb to Curb Turning Radius 44.800ft

MATCHLINE - SEE SHEET 2227
 MATCHLINE - SEE SHEET 2228

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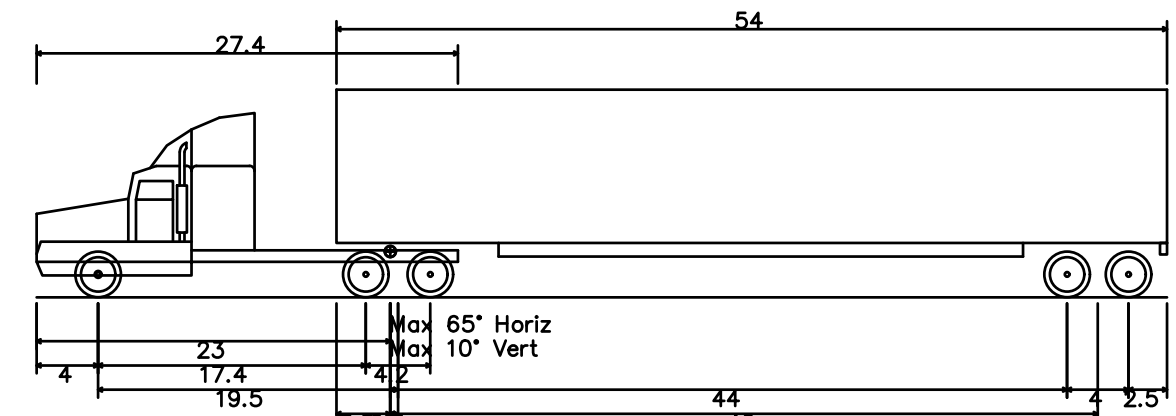
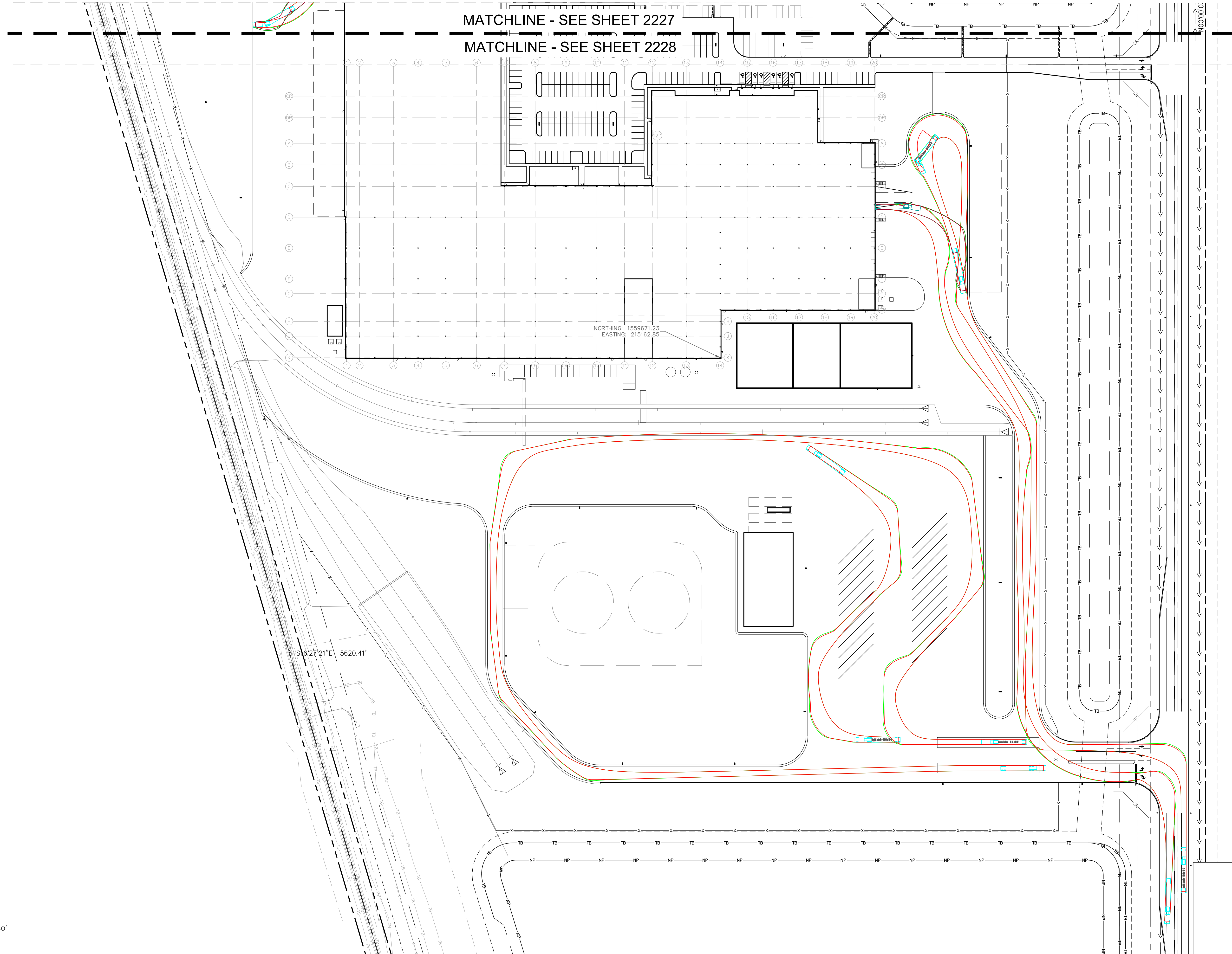
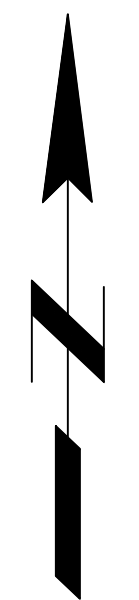
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REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

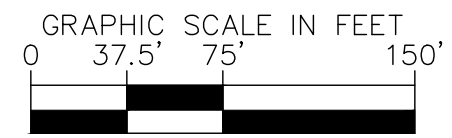
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 Engineers - Project Managers
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	MALARKEY,IND FRANKLIN,IN	PROJ. NO. 170509000
	PHASE 2 - FINAL BUILDOUT TRUCK PLAN	DWG. NO. 2227
SHEET 0	REV 0	

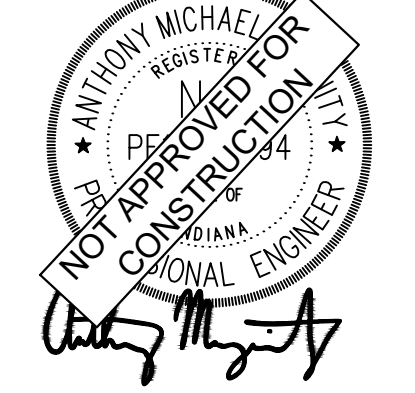
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Interstate Semitrailer - WB-65 or WB-67
 Overall Length 73.50ft
 Overall Width 8.50ft
 Overall Body Height 13.50ft
 Min. Body Ground Clearance 1.422ft
 Track Width 8.50ft
 Lock-to-lock time 6.00s
 Curb to Curb Turning Radius 44.800ft



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PROJ. NO.	170509000
DWG. NO.	2228
SHEET	0
REV	0

TITLE - PHASE 2 - FINAL BUILDOUT TRUCK PLAN

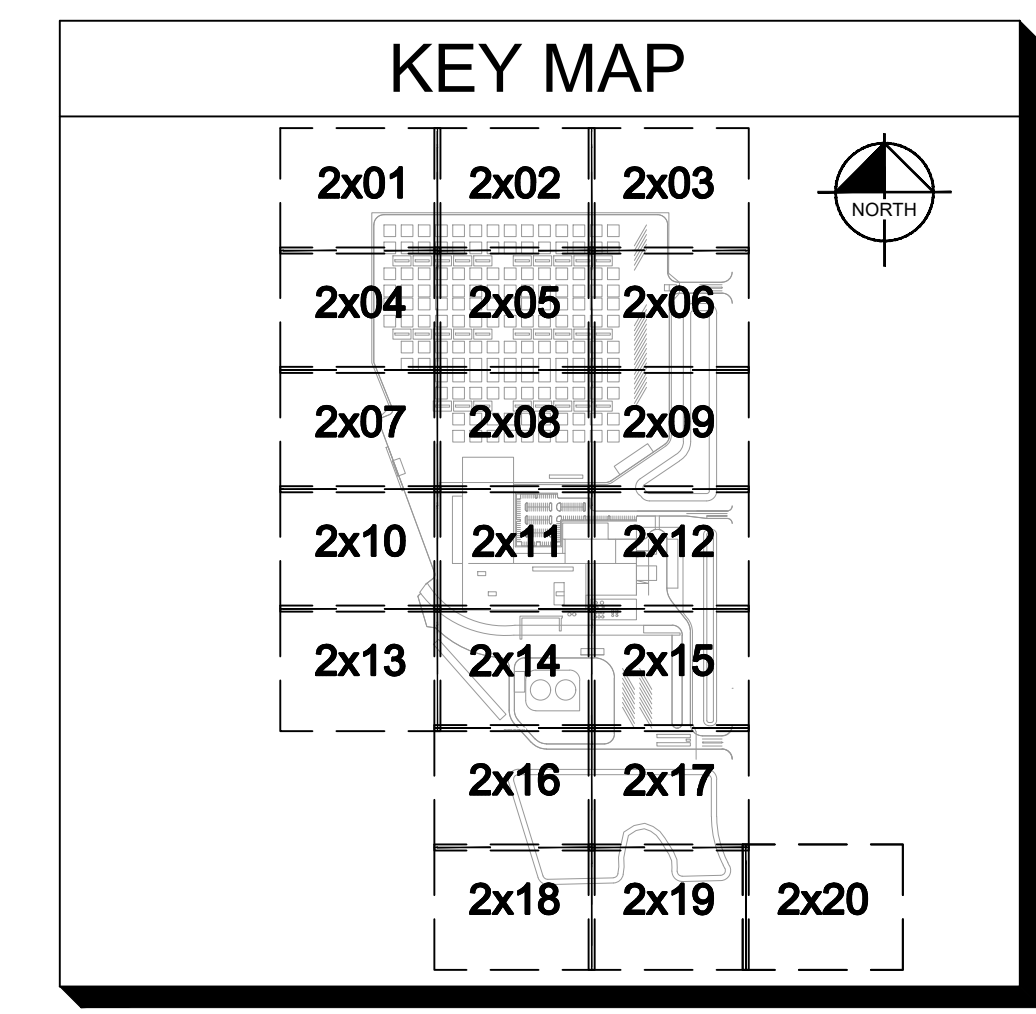


EROSION CONTROL LEGEND	
TS	TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
EB	TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL DETAILS)
CE	CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
SF	SILT FENCE (SEE EROSION CONTROL DETAILS)
IP	AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
CW	CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
RR	RIP RAP (SEE EROSION CONTROL DETAILS)
RD	ROCK DONUT (SEE EROSION CONTROL DETAILS)
SS	TEMPORARY SOIL STOCKPILE
LD	LIMITS OF DISTURBANCE
CD	CHECK DAM
	EXISTING CONTOURS
	PROPOSED CONTOURS
NS	N.O.I. SIGN
SA	STAGING AREA
DD	DEBRIS DUMPSTER
PL	PORT-O-LET
SB	SEDIMENT BASIN
SN	SNOW FENCE
DW	DE-WATERING DEVICE

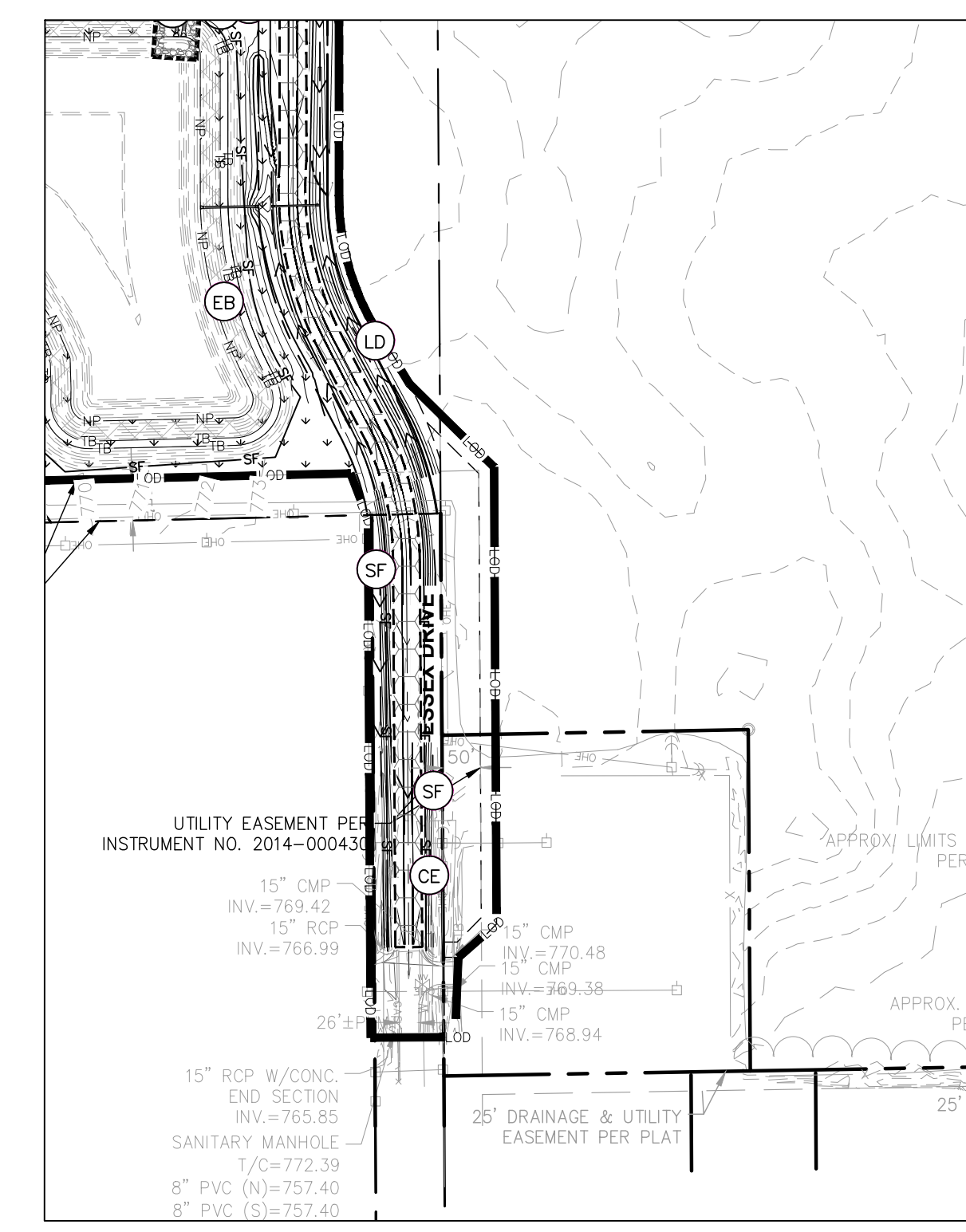
GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

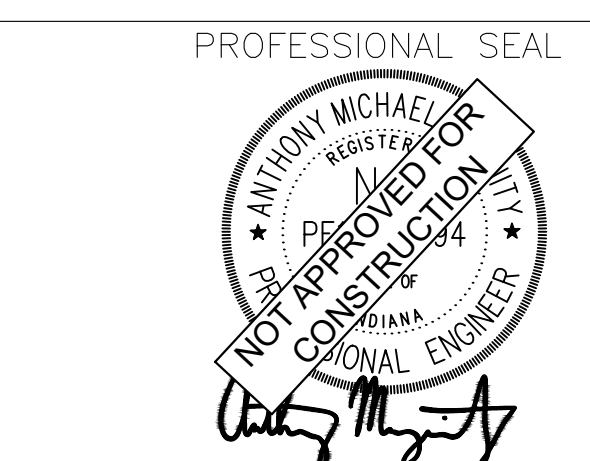
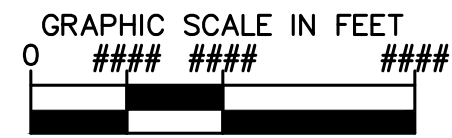
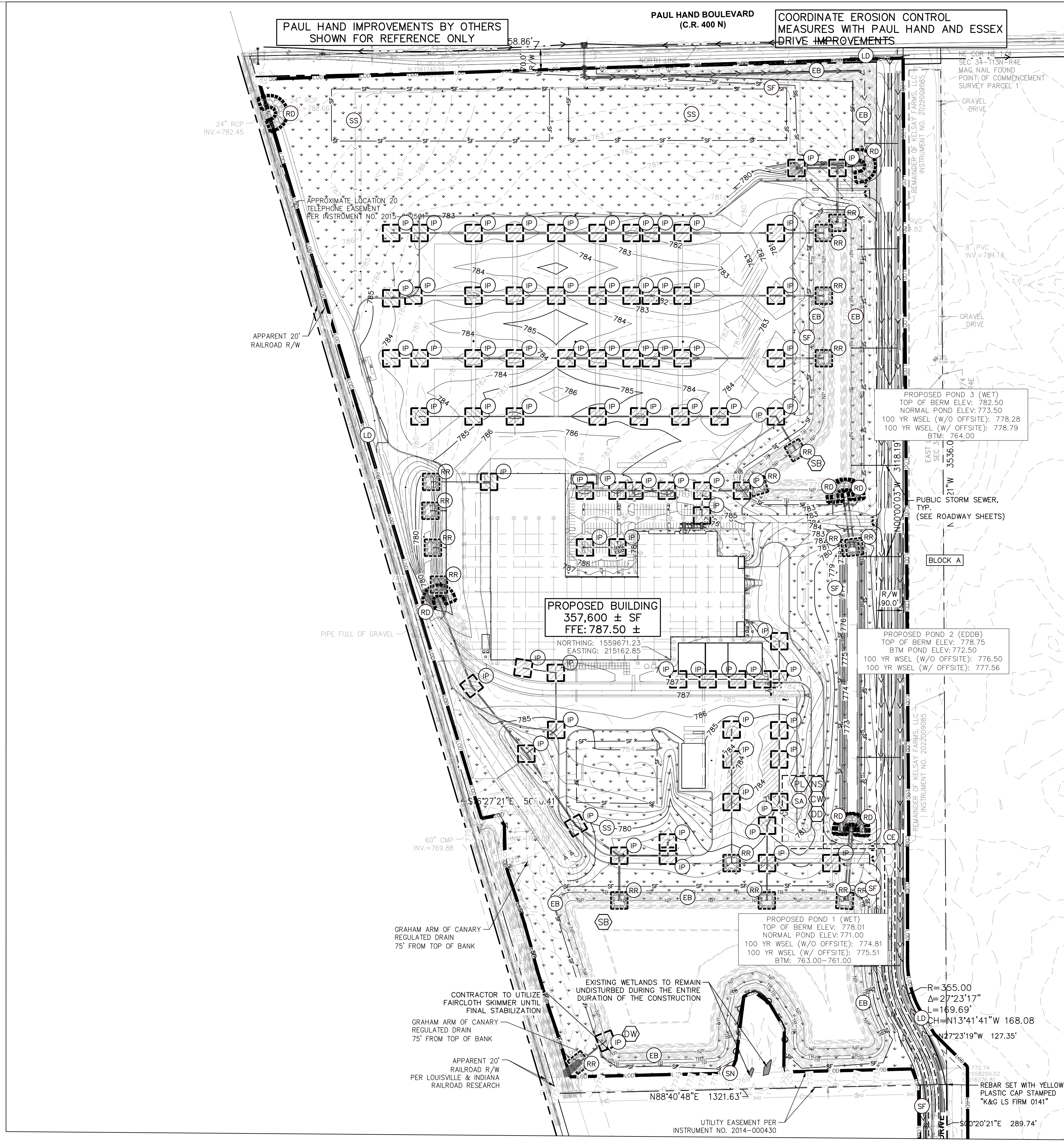
EXISTING LEGEND		
BOLLARD	MISC LID	YARD LIGHT
CONTROL BENCHMARK	MONITOR WELL	SANITARY CLEANOUT
ROW MONUMENT	GAS MARKER	SANITARY MANHOLE
FLAG POLE	GAS METER	VENT PIPE
MAIL BOX	GAS VALVE	STORM CURB INLET
UTILITY POLE	AC UNIT	STORM INLET
POST	AREA LIGHT	STORM ROOF DRAIN
SOIL BORING	ELECTRICAL BOX	STORM DRAIN MANHOLE
HANDICAP SYMBOL	ELECTRICAL HAND HOLE	STORM YARD DRAIN
SIGN	ELECTRICAL METER	FIRE DEPT CONNECTION
CABLE MANHOLE	ELECTRICAL MANHOLE	FIRE HYDRANT
CABLE PEDESTAL	ELECTRICAL MARKER	IRRIGATION VALVE
TELEPHONE PEDESTAL	ELECTRICAL TRANSFORMER	POST INDICATOR VALVE
TELEPHONE HAND HOLE	GUY POLE/WIRE	WELL
TELEPHONE MARKER	POWER POLE	WATER METER
TELEPHONE MANHOLE	TRAFFIC SIGNAL POLE	WATER VALVE
FIBER OPTIC MARKER	TRAFFIC MANHOLE	TREE / STUMP
SWALE	TS	TOE OF SLOPE
FENCE LINE	IB	TOP OF BANK
SS	FIB	UNDERGROUND FIBER OPTIC
SD	OHE	OVERHEAD ELECTRICAL
W	GAS	UNDERGROUND GAS
TREE LINE	TEL	UNDERGROUND TELEPHONE



GENERAL CONTRACTOR SHALL FIELD VERIFY AND ASSUME MAINTENANCE AND/OR REMOVAL RESPONSIBILITIES OF EROSION CONTROL MEASURES LEFT BY MASS GRADING/EARTHWORK CONTRACTOR WHERE APPLICABLE.



ESSEX DRIVE
1" = 30'



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Malarkey Roofing Products

PROJ. NO. 170509000
DWG. NO. 2300
SHEET 0
REV 0

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EROSION CONTROL LEGEND

TS		TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
EB		TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL DETAILS)
CE		CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
SF		SILT FENCE (SEE EROSION CONTROL DETAILS)
IP		AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
CW		CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
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NS		N.O.I. SIGN
SA		STAGING AREA
DD		DEBRIS DUMPSTER
PL		PORT-O-LET
SB		SEDIMENT BASIN
SN		SNOW FENCE
DW		DE-WATERING DEVICE

GENERAL PLAN NOTES

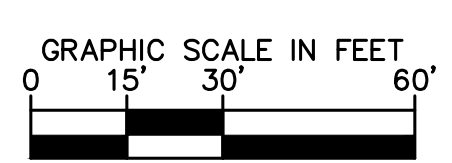
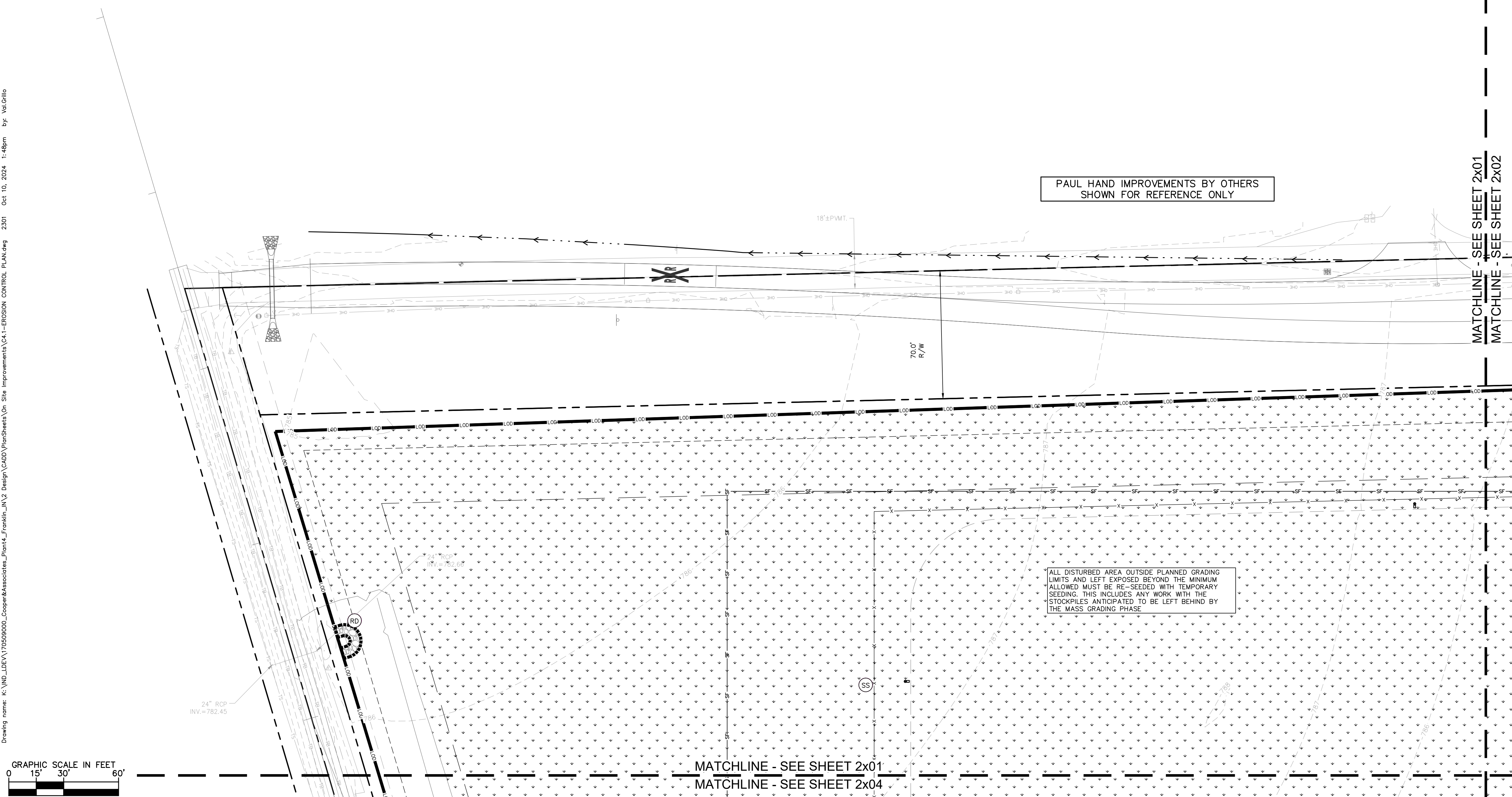
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EXISTING LEGEND

	BOLLARD		MISC LID		YARD LIGHT
	CONTROL BENCHMARK		MONITOR WELL		SANITARY CLEANOUT
	ROW MONUMENT		GAS MARKER		SANITARY MANHOLE
	FLAG POLE		GAS METER		VENT PIPE
	MAIL BOX		GAS VALVE		STORM CURB INLET
	UTILITY POLE		AC UNIT		STORM INLET
	POST		AREA LIGHT		STORM ROOF DRAIN
	SOIL BORING		ELECTRICAL BOX		STORM DRAIN MANHOLE
	HANDICAP SYMBOL		ELECTRICAL HAND HOLE		STORM YARD DRAIN
	SIGN		ELECTRICAL METER		FIRE DEPT CONNECTION
	CABLE MANHOLE		ELECTRICAL MANHOLE		FIRE HYDRANT
	CABLE PEDESTAL		ELECTRICAL MARKER		IRRIGATION VALVE
	TELEPHONE PEDESTAL		ELECTRICAL TRANSFORMER		POST INDICATOR VALVE
	TELEPHONE HAND HOLE		GUY POLE/WIRE		WELL
	TELEPHONE MARKER		POWER POLE		WATER METER
	TELEPHONE MANHOLE		TRAFFIC SIGNAL POLE		WATER VALVE
	FIBER OPTIC MARKER		TRAFFIC MANHOLE		TREE / STUMP
	SWALE		TOE OF SLOPE		TOP OF BANK
	FENCE LINE		UNDERGROUND FIBER OPTIC		OVERHEAD ELECTRICAL
	SANITARY SEWER		UNDERGROUND GAS		UNDERGROUND TELEPHONE
	STORM DRAIN				
	WATER LINE				
	TREE LINE				

PAUL HAND IMPROVEMENTS BY OTHERS
SHOWN FOR REFERENCE ONLY

ALL DISTURBED AREA OUTSIDE PLANNED GRADING LIMITS AND LEFT EXPOSED BEYOND THE MINIMUM ALLOWED MUST BE RE-SEEDING WITH TEMPORARY SEEDING. THIS INCLUDES ANY WORK WITH THE STOCKPILES ANTICIPATED TO BE LEFT BEHIND BY THE MASS GRADING PHASE.



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KHA PROJECT # 170509000

Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
DWG. NO. 2301

TITLE- PHASE 2 - FINAL BUILDOUT
EROSION CONTROL PLAN

SHEET 0
REV 0

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EROSION CONTROL LEGEND

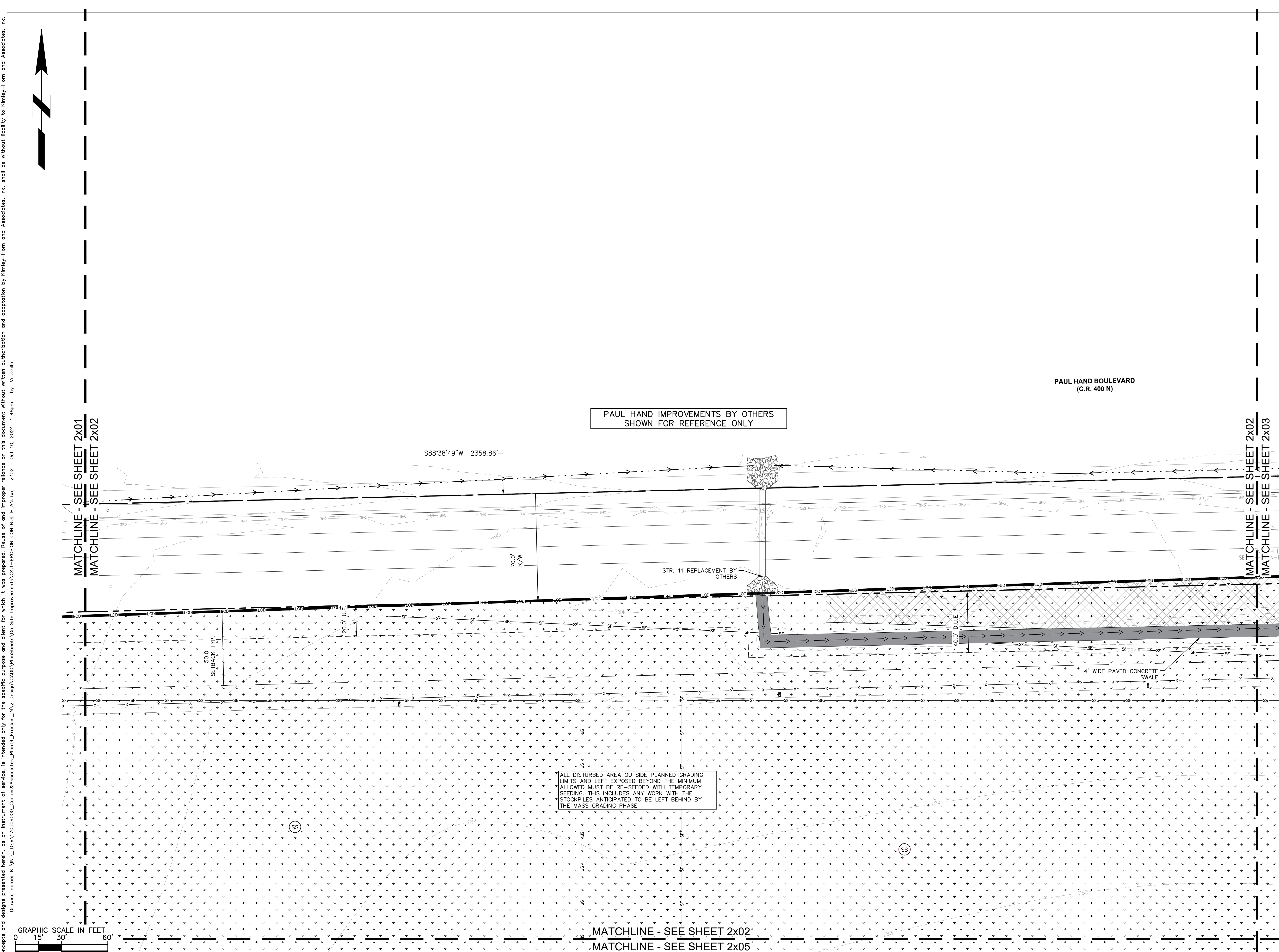
- TS TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
- EB TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL NOTE #3)
- CE CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
- SF SILT FENCE (SEE EROSION CONTROL DETAILS)
- IP AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
- CW CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
- RR RIP RAP (SEE EROSION CONTROL DETAILS)
- RD ROCK DONUT (SEE EROSION CONTROL DETAILS)
- SS TEMPORARY SOIL STOCKPILE
- LD LIMITS OF DISTURBANCE
- CD CHECK DAM
- 620 EXISTING CONTOURS
- 620 PROPOSED CONTOURS
- NS N.O.I. SIGN
- SA STAGING AREA
- DD DEBRIS DUMPSTER
- PL PORT-O-LET
- SB SEDIMENT BASIN
- SN SNOW FENCE
- DW DE-WATERING DEVICE

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

EXISTING LEGEND

- BOLLARD
- CONTROL BENCHMARK
- ROW MONUMENT
- FLAG POLE
- MAIL BOX
- UTILITY POLE
- POST
- SOIL BORING
- HANDICAP SYMBOL
- SIGN
- CABLE MANHOLE
- CABLE PEDESTAL
- TELEPHONE PEDESTAL
- TELEPHONE HAND HOLE
- TELEPHONE MARKER
- TELEPHONE MANHOLE
- FIBER OPTIC MAKER
- SWALE
- FENCE LINE
- SS SANITARY SEWER
- SD STORM DRAIN
- W WATER LINE
- TREE LINE
- MISC LID
- MONITOR WELL
- GAS MARKER
- GAS METER
- GAS VALVE
- AC UNIT
- AREA LIGHT
- ELECTRICAL BOX
- ELECTRICAL HAND HOLE
- ELECTRICAL METER
- ELECTRICAL MANHOLE
- ELECTRICAL MARKER
- ELECTRICAL TRANSFORMER
- GUY POLE/WIRE
- POWER POLE
- TRAFFIC SIGNAL POLE
- TRAFFIC MANHOLE
- YARD LIGHT
- SANITARY CLEANOUT
- SANITARY MANHOLE
- VENT PIPE
- STORM CURB INLET
- STORM INLET
- STORM ROOF DRAIN
- STORM DRAIN MANHOLE
- STORM YARD DRAIN
- FIRE DEPT CONNECTION
- FIRE HYDRANT
- IRRIGATION VALVE
- POST INDICATOR VALVE
- WELL
- WATER METER
- WATER VALVE
- TREE / STUMP
- TOE OF SLOPE
- TOP OF BANK
- UNDERGROUND FIBER OPTIC
- OVERHEAD ELECTRICAL
- UNDERGROUND GAS
- UNDERGROUND TELEPHONE



PROFESSIONAL SEAL

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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

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 Ph. (844) 251-7823 www.quadplus.com

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 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

Malarkey Roofing Products

PROJ. NO. 170509000
 DWG. NO. 2302
 SHEET 0

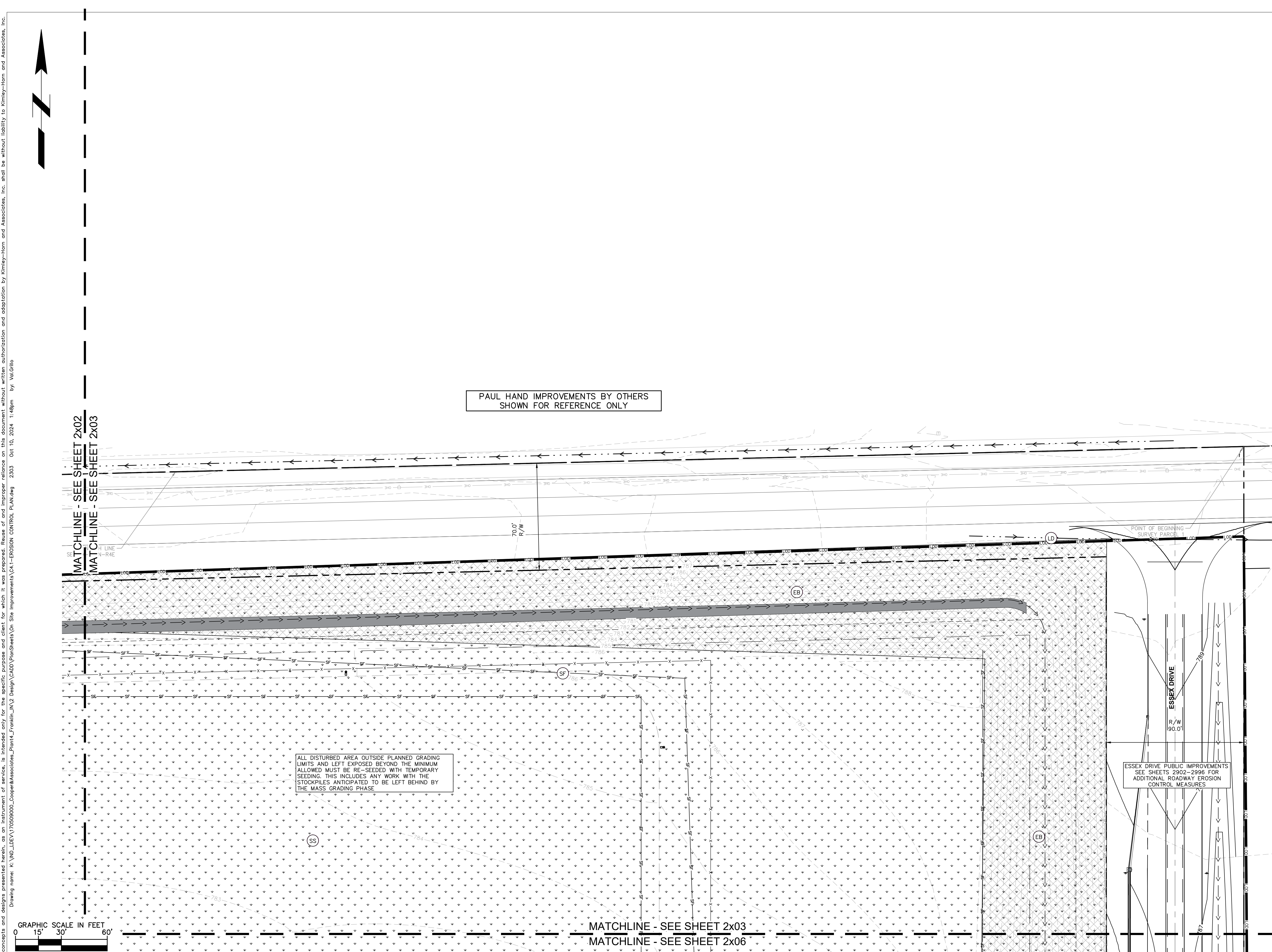
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EROSION CONTROL LEGEND	
TS	TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
EB	TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL NOTE #3)
CE	CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
SF	SILT FENCE (SEE EROSION CONTROL DETAILS)
IP	AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
CW	CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
RR	RIP RAP (SEE EROSION CONTROL DETAILS)
RD	ROCK DONUT (SEE EROSION CONTROL DETAILS)
SS	TEMPORARY SOIL STOCKPILE
LD	LIMITS OF DISTURBANCE
CD	CHECK DAM
	- - - 620 - - - EXISTING CONTOURS
	- - - 620 - - - PROPOSED CONTOURS
NS	N.O.I. SIGN
SA	STAGING AREA
DD	DEBRIS DUMPSTER
PL	PORT-O-LET
SB	SEDIMENT BASIN
SN	SNOW FENCE
DW	DE-WATERING DEVICE

GENERAL PLAN NOTES
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EXISTING LEGEND					
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⊕	CONTROL BENCHMARK	⊕	MONITOR WELL	⊕	SANITARY CLEANOUT
⊕	ROW MONUMENT	⊕	GAS MARKER	⊕	SANITARY MANHOLE
⊕	FLAG POLE	⊕	GAS METER	⊕	VENT PIPE
⊕	MAIL BOX	⊕	GAS VALVE	⊕	STORM CURB INLET
⊕	UTILITY POLE	⊕	AC UNIT	⊕	STORM INLET
⊕	POST	⊕	AREA LIGHT	⊕	STORM ROOF DRAIN
⊕	SOIL BORING	⊕	ELECTRICAL BOX	⊕	STORM DRAIN MANHOLE
⊕	HANDICAP SYMBOL	⊕	ELECTRICAL HAND HOLE	⊕	STORM YARD DRAIN
⊕	SIGN	⊕	ELECTRICAL METER	⊕	FIRE DEPT CONNECTION
⊕	CABLE MANHOLE	⊕	ELECTRICAL MANHOLE	⊕	FIRE HYDRANT
⊕	CABLE PEDESTAL	⊕	ELECTRICAL MARKER	⊕	IRRIGATION VALVE
⊕	TELEPHONE PEDESTAL	⊕	ELECTRICAL TRANSFORMER	⊕	POST INDICATOR VALVE
⊕	TELEPHONE HAND HOLE	⊕	GUY POLE/WIRE	⊕	WELL
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⊕	TELEPHONE MANHOLE	⊕	TRAFFIC SIGNAL POLE	⊕	WATER VALVE
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⊕	SANITARY SEWER	⊕	FIB	⊕	UNDERGROUND FIBER OPTIC
⊕	STORM DRAIN	⊕	OHE	⊕	OVERHEAD ELECTRICAL
⊕	WATER LINE	⊕	GAS	⊕	UNDERGROUND GAS
⊕	TREE LINE	⊕	TEL	⊕	UNDERGROUND TELEPHONE



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 KHA PROJECT # 170509000

Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2303

TITLE - PHASE 2 - FINAL BUILDOUT
 EROSION CONTROL PLAN

SHEET 0
 REV 0

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EROSION CONTROL LEGEND

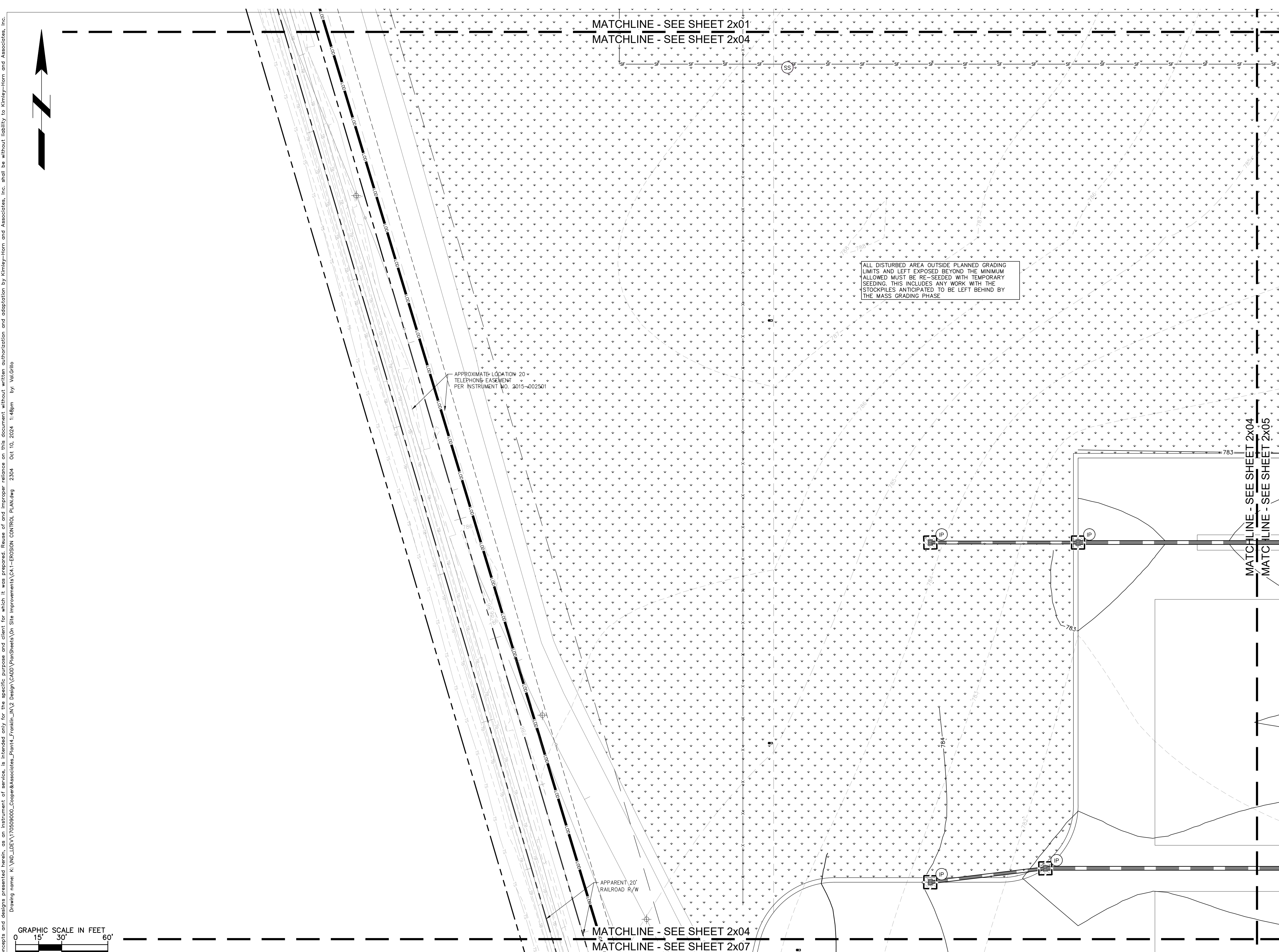
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- EB** TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL NOTE #3)
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- SANITARY MANHOLE
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- GAS VALVE
- STORM CURB INLET
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- AC UNIT
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- SOIL BORING
- AREA LIGHT
- STORM ROOF DRAIN
- HANDICAP SYMBOL
- ELECTRICAL BOX
- STORM DRAIN MANHOLE
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- STORM YARD DRAIN
- CABLE MANHOLE
- ELECTRICAL METER
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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

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Engineers - Project Managers
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 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2304

TITLE - PHASE 2 - FINAL BUILDOUT
 EROSION CONTROL PLAN

SHEET 0
 REV 0

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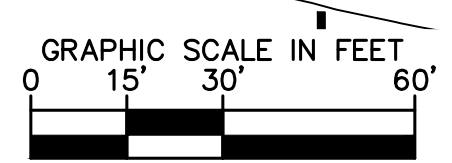
EROSION CONTROL LEGEND	
TS	TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
EB	TEMPORARY EROSION CONTROL BLANKET (SEE TEMPORARY EROSION CONTROL NOTE #3)
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RD	ROCK DONUT (SEE EROSION CONTROL DETAILS)
SS	TEMPORARY SOIL STOCKPILE
LD	LIMITS OF DISTURBANCE
CD	CHECK DAM
	EXISTING CONTOURS
	PROPOSED CONTOURS
NS	N.O.I. SIGN
SA	STAGING AREA
DD	DEBRIS DUMPSTER
PL	PORT-O-LET
SB	SEDIMENT BASIN
SN	SNOW FENCE
DW	DE-WATERING DEVICE

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MAIL BOX	GAS METER	VENT PIPE
UTILITY POLE	GAS VALVE	STORM CURB INLET
POST	AC UNIT	STORM INLET
SOIL BORING	AREA LIGHT	STORM ROOF DRAIN
HANDICAP SYMBOL	ELECTRICAL BOX	STORM DRAIN MANHOLE
SIGN	ELECTRICAL HAND HOLE	STORM YARD DRAIN
CABLE MANHOLE	ELECTRICAL METER	FIRE DEPT CONNECTION
CABLE PEDESTAL	ELECTRICAL MANHOLE	FIRE HYDRANT
TELEPHONE PEDESTAL	ELECTRICAL MARKER	IRRIGATION VALVE
TELEPHONE HAND HOLE	ELECTRICAL TRANSFORMER	POST INDICATOR VALVE
TELEPHONE MARKER	GUY POLE/WIRE	WELL
TELEPHONE MANHOLE	POWER POLE	WATER METER
FIBER OPTIC MAKER	TRAFFIC SIGNAL POLE	WATER VALVE
SWALE	TRAFFIC MANHOLE	TREE / STUMP
FENCE LINE	TS	TOE OF SLOPE
SANITARY SEWER	TB	TOP OF BANK
STORM DRAIN	FIB	UNDERGROUND FIBER OPTIC
WATER LINE	OHE	OVERHEAD ELECTRICAL
TREE LINE	GAS	UNDERGROUND GAS
	TEL	UNDERGROUND TELEPHONE

MATCHLINE - SEE SHEET 2x02
 MATCHLINE - SEE SHEET 2x05

ALL DISTURBED AREA OUTSIDE PLANNED GRADING LIMITS AND LEFT EXPOSED BEYOND THE MINIMUM ALLOWED MUST BE RE-SEED WITH TEMPORARY SEEDING. THIS INCLUDES ANY WORK WITH THE STOCKPILES ANTICIPATED TO BE LEFT BEHIND BY THE MASS GRADING PHASE.



MATCHLINE - SEE SHEET 2x05
 MATCHLINE - SEE SHEET 2x08

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Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2305

TITLE- PHASE 2 - FINAL BUILDOUT
 EROSION CONTROL PLAN

SHEET 0
 REV 0

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EROSION CONTROL LEGEND	
TS	TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
EB	TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL NOTE #3)
CE	CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
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RR	RIP RAP (SEE EROSION CONTROL DETAILS)
RD	ROCK DONUT (SEE EROSION CONTROL DETAILS)
SS	TEMPORARY SOIL STOCKPILE
LD	LIMITS OF DISTURBANCE
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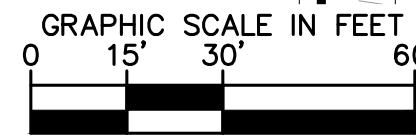
EXISTING LEGEND

BOLLARD	MISC LID	YARD LIGHT
CONTROL BENCHMARK	MONITOR WELL	SANITARY CLEANOUT
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SOIL BORING	ELECTRICAL BOX	STORM DRAIN MANHOLE
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TREE LINE	TEL	UNDERGROUND TELEPHONE

ALL DISTURBED AREA OUTSIDE PLANNED GRADING LIMITS AND LEFT EXPOSED BEYOND THE MINIMUM ALLOWED MUST BE RE-SEDED WITH TEMPORARY SEEDING. THIS INCLUDES ANY WORK WITH THE STOCKPILES ANTICIPATED TO BE LEFT BEHIND BY THE MASS GRADING PHASE.

PROPOSED POND 3 (WET)
TOP OF BERM ELEV: 782.50
NORMAL POND ELEV: 773.50
100 YR WSEL (W/O OFFSITE): 778.28
100 YR WSEL (W/ OFFSITE): 778.79
BTM: 764.00

ESSEX DRIVE PUBLIC IMPROVEMENTS
SEE SHEETS 2902-2996 FOR
ADDITIONAL ROADWAY EROSION
CONTROL MEASURES



PROFESSIONAL SEAL

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KHA PROJECT # 170509000

MALARKEY,IND FRANKLIN,IN

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DWG. NO. 2306
SHEET 0
REV 0

TITLE- PHASE 2 - FINAL BUILDOUT
EROSION CONTROL PLAN

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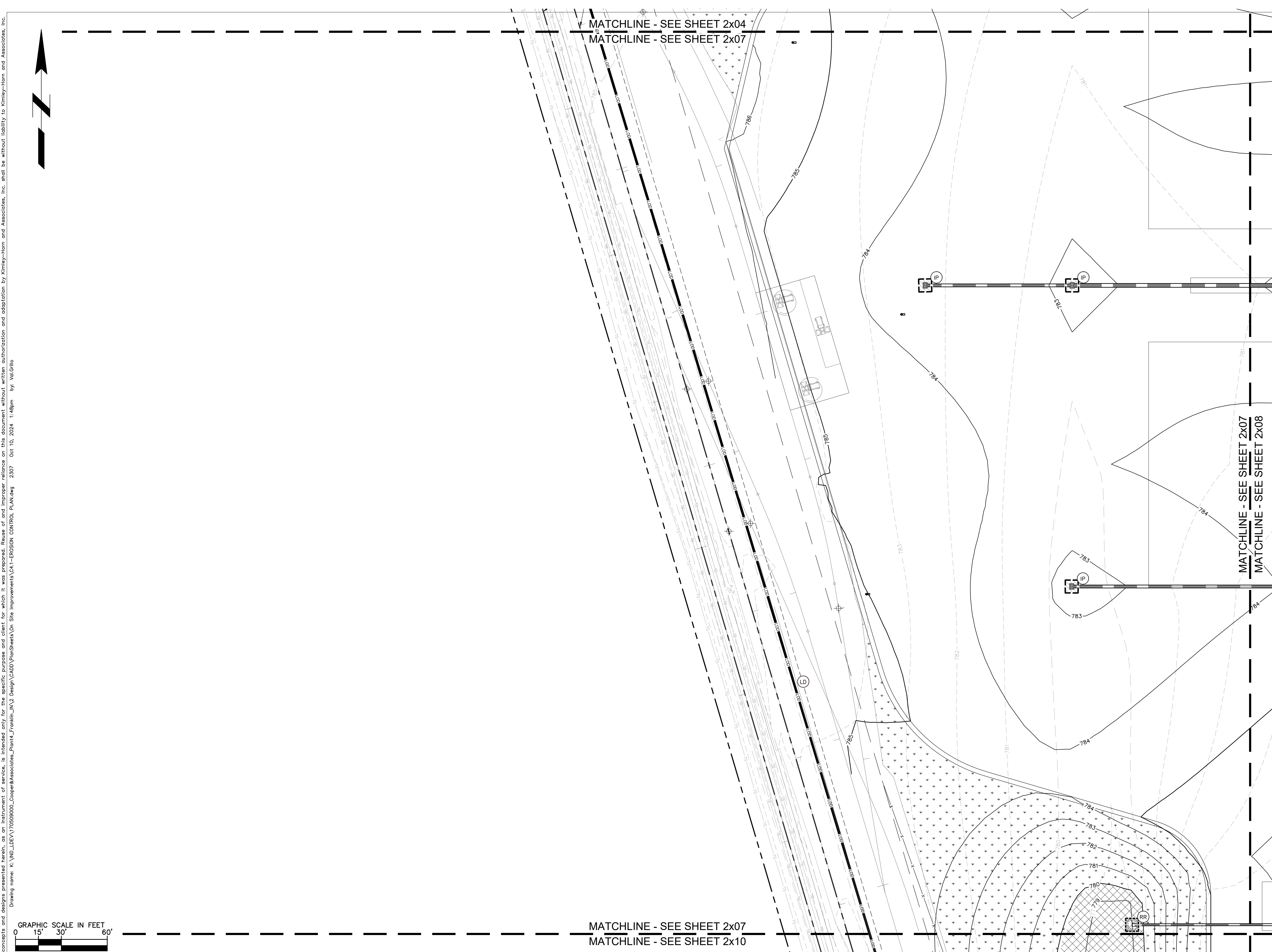
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SA	STAGING AREA
DD	DEBRIS DUMPSTER
PL	PORT-O-LET
SB	SEDIMENT BASIN
SN	SNOW FENCE
DW	DE-WATERING DEVICE

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

EXISTING LEGEND

BOLLARD	MISC LID	YARD LIGHT
CONTROL BENCHMARK	MONITOR WELL	SANITARY CLEANOUT
FLAG POLE	GAS MARKER	SANITARY MANHOLE
MAIL BOX	GAS METER	VENT PIPE
UTILITY POLE	GAS VALVE	STORM CURB INLET
POST	AC UNIT	STORM INLET
SOIL BORING	AREA LIGHT	STORM ROOF DRAIN
HANDICAP SYMBOL	ELECTRICAL BOX	STORM DRAIN MANHOLE
SIGN	ELECTRICAL HAND HOLE	STORM YARD DRAIN
CABLE MANHOLE	ELECTRICAL METER	FIRE HYDRANT
CABLE PEDESTAL	ELECTRICAL MANHOLE	IRRIGATION VALVE
TELEPHONE PEDESTAL	ELECTRICAL MARKER	POST INDICATOR VALVE
TELEPHONE HAND HOLE	ELECTRICAL TRANSFORMER	WELL
TELEPHONE MARKER	GUY POLE/WIRE	WATER METER
TELEPHONE MANHOLE	POWER POLE	WATER VALVE
FIBER OPTIC MAKER	TRAFFIC SIGNAL POLE	TREE / STUMP
SWALE	TRAFFIC MANHOLE	TOE OF SLOPE
FENCE LINE	TS	TOP OF BANK
SS	FIB	UNDERGROUND FIBER OPTIC
SD	OHE	OVERHEAD ELECTRICAL
W	GAS	UNDERGROUND GAS
TREE LINE	TEL	UNDERGROUND TELEPHONE



PROFESSIONAL SEAL

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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

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Cooper & Associates, LLC

Engineers - Project Managers
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500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000

Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
DWG. NO. 2307

TITLE- PHASE 2 - FINAL BUILDOUT
EROSION CONTROL PLAN

SHEET 0
REV 0

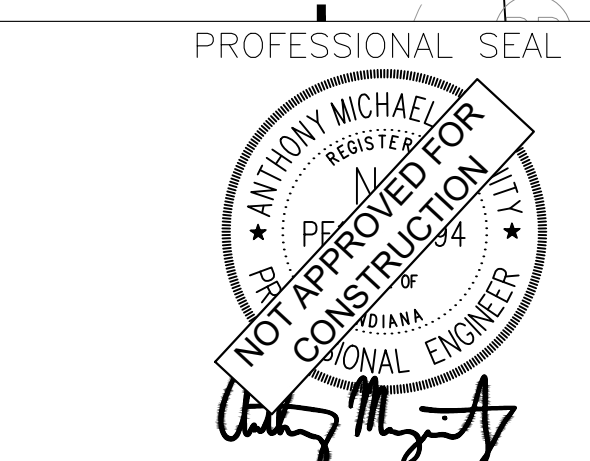
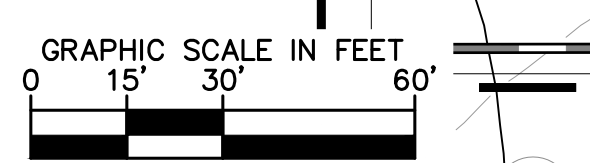
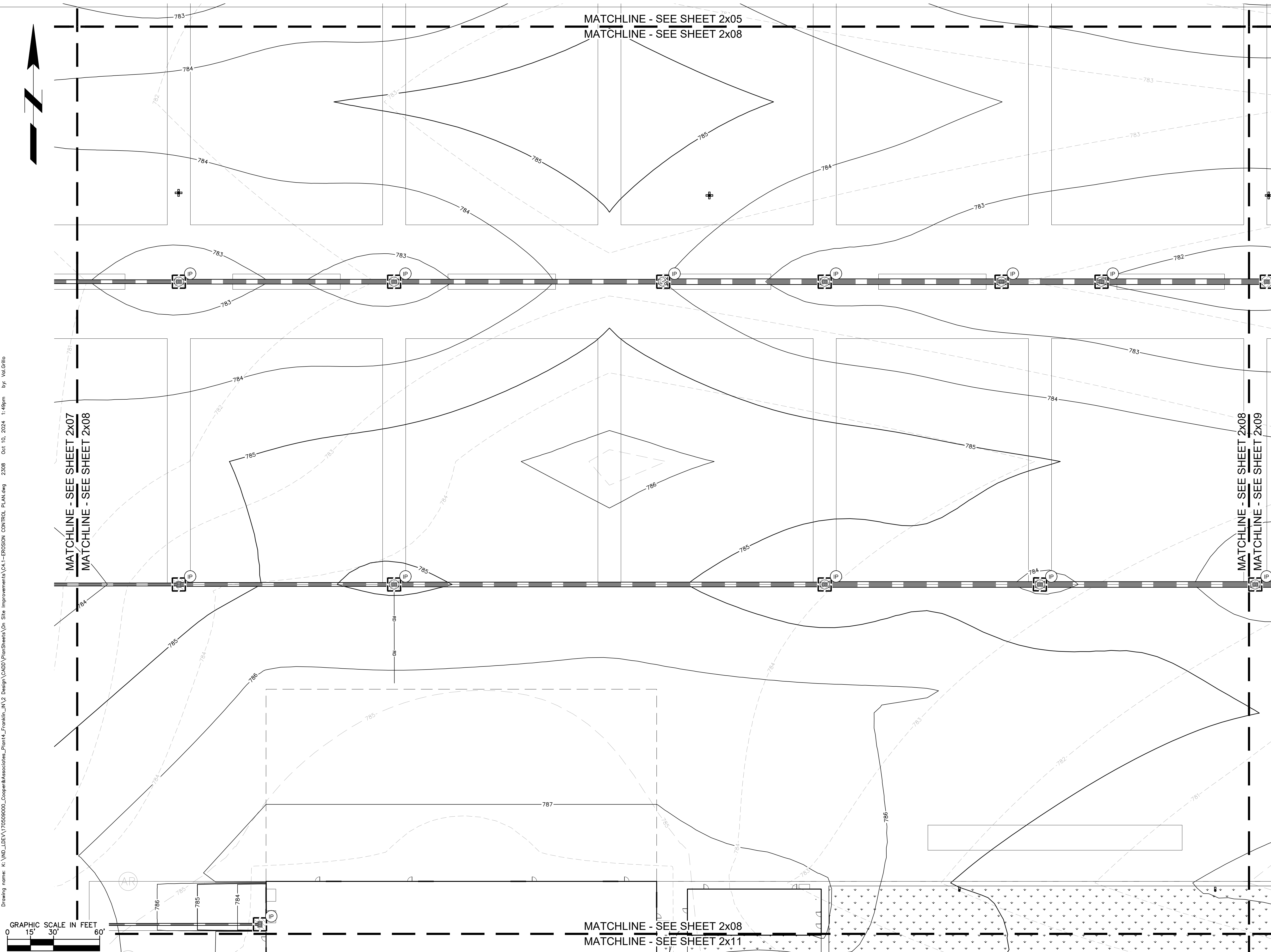
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EROSION CONTROL LEGEND	
TS	TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
EB	TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL DETAILS)
CE	CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
SF	SILT FENCE (SEE EROSION CONTROL DETAILS)
IP	AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
CW	CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
RR	RIP RAP (SEE EROSION CONTROL DETAILS)
RD	ROCK DONUT (SEE EROSION CONTROL DETAILS)
SS	TEMPORARY SOIL STOCKPILE
LD	LIMITS OF DISTURBANCE
CD	CHECK DAM
	EXISTING CONTOURS
	PROPOSED CONTOURS
NS	N.O.I. SIGN
SA	STAGING AREA
DD	DEBRIS DUMPSTER
PL	PORT-O-LET
SB	SEDIMENT BASIN
SN	SNOW FENCE
DW	DE-WATERING DEVICE

GENERAL PLAN NOTES
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ROW MONUMENT	GAS MARKER	SANITARY MANHOLE
FLAG POLE	GAS METER	VENT PIPE
MAIL BOX	GAS VALVE	STORM CURB INLET
UTILITY POLE	AC UNIT	STORM INLET
POST	AREA LIGHT	STORM ROOF DRAIN
SOIL BORING	ELECTRICAL BOX	STORM DRAIN MANHOLE
HANDICAP SYMBOL	ELECTRICAL HAND HOLE	STORM YARD DRAIN
SIGN	ELECTRICAL METER	FIRE DEPT CONNECTION
CABLE MANHOLE	ELECTRICAL MANHOLE	FIRE HYDRANT
CABLE PEDESTAL	ELECTRICAL MARKER	IRRIGATION VALVE
TELEPHONE PEDESTAL	ELECTRICAL TRANSFORMER	POST INDICATOR VALVE
TELEPHONE HAND HOLE	GUY POLE/WIRE	WELL
TELEPHONE MARKER	POWER POLE	WATER METER
TELEPHONE MANHOLE	TRAFFIC SIGNAL POLE	WATER VALVE
FIBER OPTIC MAKER	TRAFFIC MANHOLE	TREE / STUMP
SWALE	TS	TOE OF SLOPE
FENCE LINE	TB	TOP OF BANK
SANITARY SEWER	FIB	UNDERGROUND FIBER OPTIC
STORM DRAIN	OHE	OVERHEAD ELECTRICAL
WATER LINE	GAS	UNDERGROUND GAS
TREE LINE	TSL	UNDERGROUND TELEPHONE



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SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

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 Engineers - Project Managers
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 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

Malarkey Roofing Products
 MALARKEY,IND FRANKLIN,IN

PROJ. NO.	170509000
DWG. NO.	2308
SHEET	0
REV	0

TITLE - PHASE 2 - FINAL BUILDOUT
 EROSION CONTROL PLAN

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EROSION CONTROL LEGEND

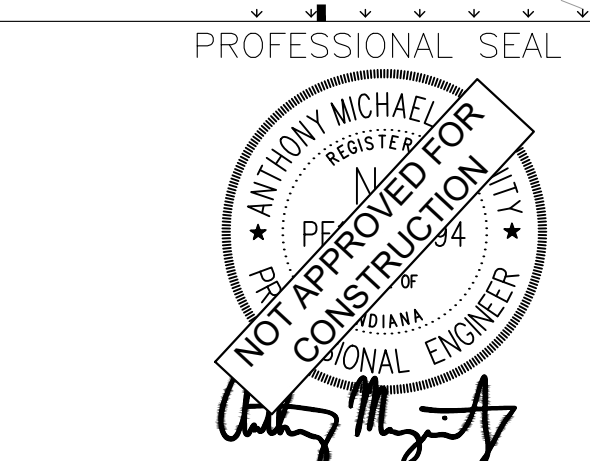
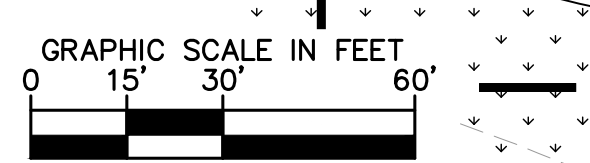
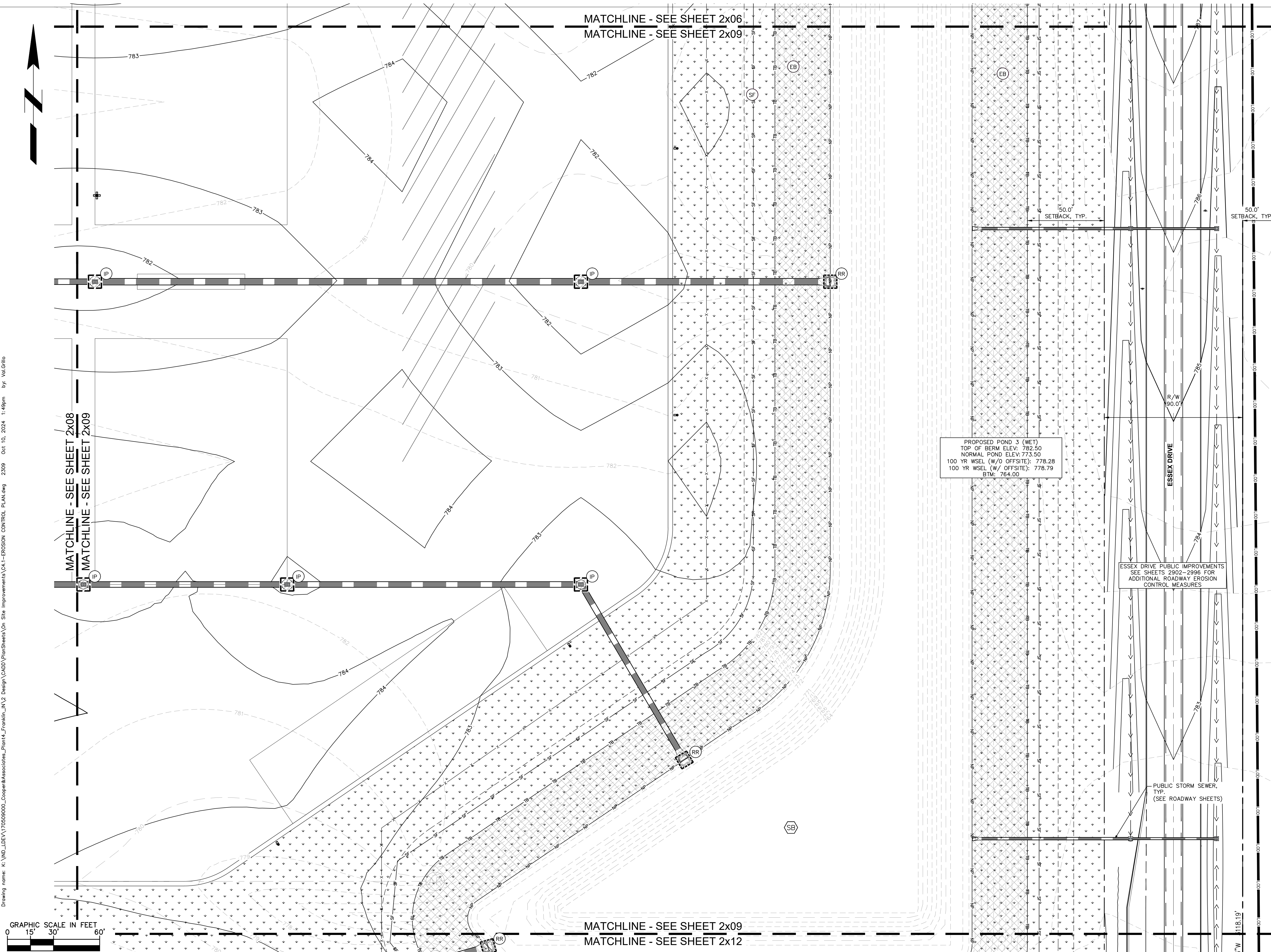
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- TEMPORARY EROSION CONTROL BLANKET (SEE TEMPORARY EROSION CONTROL NOTE #3)
- CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
- SILT FENCE (SEE EROSION CONTROL DETAILS)
- AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
- CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
- RIP RAP (SEE EROSION CONTROL DETAILS)
- ROCK DONUT (SEE EROSION CONTROL DETAILS)
- TEMPORARY SOIL STOCKPILE
- LIMITS OF DISTURBANCE
- CHECK DAM
- EXISTING CONTOURS
- PROPOSED CONTOURS
- N.O.I. SIGN
- STAGING AREA
- DEBRIS DUMPSTER
- PORT-O-LET
- SEDIMENT BASIN
- SNOW FENCE
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EXISTING LEGEND

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- CONTROL BENCHMARK
- ROW MONUMENT
- FLAG POLE
- MAIL BOX
- UTILITY POLE
- POST
- SOIL BORING
- HANDICAP SYMBOL
- SIGN
- CABLE MANHOLE
- CABLE PEDESTAL
- TELEPHONE PEDESTAL
- TELEPHONE HAND HOLE
- TELEPHONE MARKER
- FIBER OPTIC MAKER
- SWALE
- FENCE LINE
- SANITARY SEWER
- STORM DRAIN
- WATER LINE
- TREE LINE
- MISC LID
- MONITOR WELL
- GAS MARKER
- GAS METER
- GAS VALVE
- AC UNIT
- AREA LIGHT
- ELECTRICAL BOX
- ELECTRICAL HAND HOLE
- ELECTRICAL METER
- ELECTRICAL MANHOLE
- ELECTRICAL MARKER
- ELECTRICAL TRANSFORMER
- GUY POLE/WIRE
- POWER POLE
- TRAFFIC SIGNAL POLE
- TRAFFIC MANHOLE
- YARD LIGHT
- SANITARY CLEANOUT
- SANITARY MANHOLE
- VENT PIPE
- STORM CURB INLET
- STORM INLET
- STORM ROOF DRAIN
- STORM DRAIN MANHOLE
- STORM YARD DRAIN
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- FIRE HYDRANT
- IRRIGATION VALVE
- POST INDICATOR VALVE
- WELL
- WATER METER
- WATER VALVE
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- TOE OF SLOPE
- TOP OF BANK
- UNDERGROUND FIBER OPTIC
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- UNDERGROUND GAS
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PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000

Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
DWG. NO. 2309

TITLE- PHASE 2 - FINAL BUILDOUT
EROSION CONTROL PLAN

SHEET 0
REV 0

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EROSION CONTROL LEGEND	
TS	TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
EB	TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL NOTE #3)
CE	CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
SF	SILT FENCE (SEE EROSION CONTROL DETAILS)
IP	AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
CW	CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
RR	RIP RAP (SEE EROSION CONTROL DETAILS)
RD	ROCK DONUT (SEE EROSION CONTROL DETAILS)
SS	TEMPORARY SOIL STOCKPILE
LD	LIMITS OF DISTURBANCE
CD	CHECK DAM
	-620- EXISTING CONTOURS
	-620- PROPOSED CONTOURS
NS	N.O.I. SIGN
SA	STAGING AREA
DD	DEBRIS DUMPSTER
PL	PORT-O-LET
SB	SEDIMENT BASIN
SN	SNOW FENCE
DW	DE-WATERING DEVICE

GENERAL PLAN NOTES

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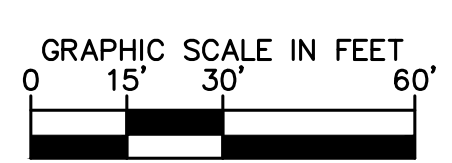
EXISTING LEGEND

BOLLARD	MISC LID	YARD LIGHT
CONTROL BENCHMARK	MONITOR WELL	SANITARY CLEANOUT
FLAG POLE	GAS MARKER	SANITARY MANHOLE
MAIL BOX	GAS METER	VENT PIPE
UTILITY POLE	GAS VALVE	STORM CURB INLET
POST	AC UNIT	STORM INLET
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TELEPHONE PEDESTAL	ELECTRICAL MANHOLE	IRRIGATION VALVE
TELEPHONE HAND HOLE	ELECTRICAL MARKER	POST INDICATOR VALVE
TELEPHONE MARKER	ELECTRICAL TRANSFORMER	WELL
TELEPHONE MANHOLE	GUY POLE/WIRE	WATER METER
FIBER OPTIC MAKER	POWER POLE	WATER VALVE
SWALE	TRAFFIC SIGNAL POLE	TREE / STUMP
FENCE LINE	TRAFFIC MANHOLE	TOE OF SLOPE
SANITARY SEWER	TS	TOP OF BANK
STORM DRAIN	FB	UNDERGROUND FIBER OPTIC
WATER LINE	OHE	OVERHEAD ELECTRICAL
TREE LINE	GAS	UNDERGROUND GAS
	TEL	UNDERGROUND TELEPHONE

MATCHLINE - SEE SHEET 2x07
MATCHLINE - SEE SHEET 2x10

MATCHLINE - SEE SHEET 2x10
MATCHLINE - SEE SHEET 2x11

PIPE FULL OF GRAVEL



MATCHLINE - SEE SHEET 2x10
MATCHLINE - SEE SHEET 2x13

PROFESSIONAL SEAL



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KHA PROJECT # 170509000

Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
DWG. NO. 2310

TITLE - PHASE 2 - FINAL BUILDOUT
EROSION CONTROL PLAN

SHEET 0
REV 0

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EROSION CONTROL LEGEND

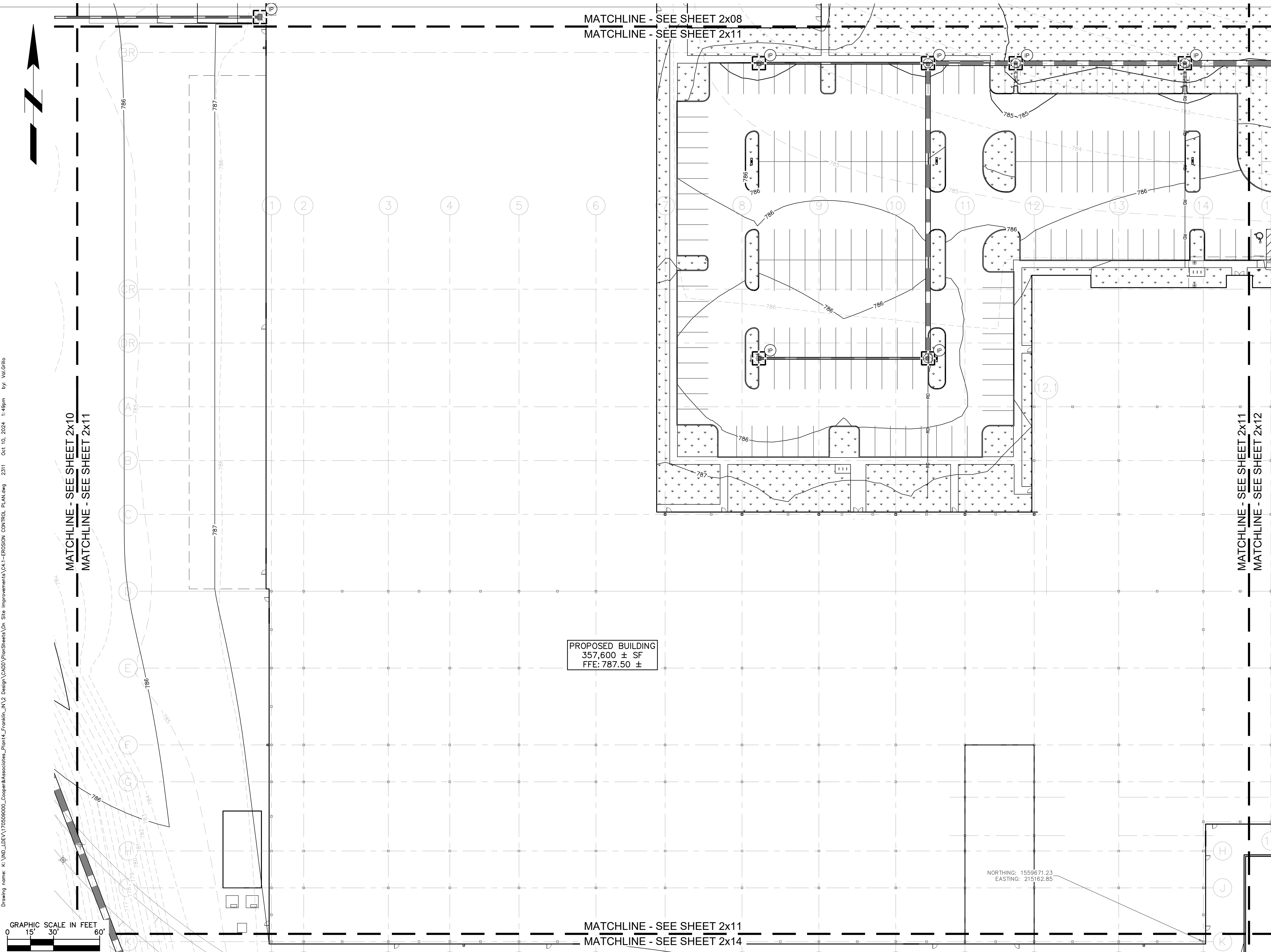
- TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
- TEMPORARY EROSION CONTROL BLANKET (SEE TEMPORARY EROSION CONTROL NOTE #3)
- CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
- SILT FENCE (SEE EROSION CONTROL DETAILS)
- AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
- CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
- RIP RAP (SEE EROSION CONTROL DETAILS)
- ROCK DONUT (SEE EROSION CONTROL DETAILS)
- TEMPORARY SOIL STOCKPILE
- LIMITS OF DISTURBANCE
- CHECK DAM
- EXISTING CONTOURS
- PROPOSED CONTOURS
- N.O.I. SIGN
- STAGING AREA
- DEBRIS DUMPSTER
- PORT-O-LET
- SEDIMENT BASIN
- SNOW FENCE
- DE-WATERING DEVICE

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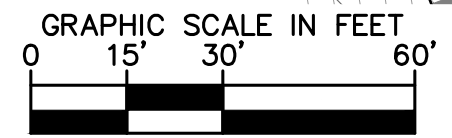
EXISTING LEGEND

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- CONTROL BENCHMARK
- ROW MONUMENT
- FLAG POLE
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- POST
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- HANDICAP SYMBOL
- SIGN
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- CABLE PEDESTAL
- TELEPHONE PEDESTAL
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- TELEPHONE MANHOLE
- FIBER OPTIC MAKER
- SWALE
- FENCE LINE
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- STORM DRAIN
- WATER LINE
- TREE LINE
- MISC LID
- MONITOR WELL
- GAS MARKER
- GAS METER
- GAS VALVE
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- STORM YARD DRAIN
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- FIRE HYDRANT
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- POST INDICATOR VALVE
- WELL
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- WATER VALVE
- TREE / STUMP
- TOE OF SLOPE
- TOP OF BANK
- UNDERGROUND FIBER OPTIC
- OVERHEAD ELECTRICAL
- UNDERGROUND GAS
- UNDERGROUND TELEPHONE



PROPOSED BUILDING
357,600 ± SF
FFE: 787.50 ±

NORTHING: 1559671.23
EASTING: 215162.85



PROFESSIONAL SEAL

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MALARKEY,IND FRANKLIN,IN

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SHEET 0
REV 0

TITLE- PHASE 2 - FINAL BUILDOUT
EROSION CONTROL PLAN

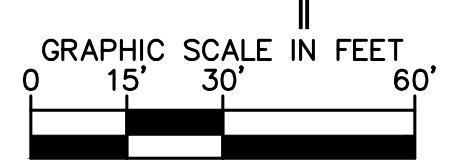
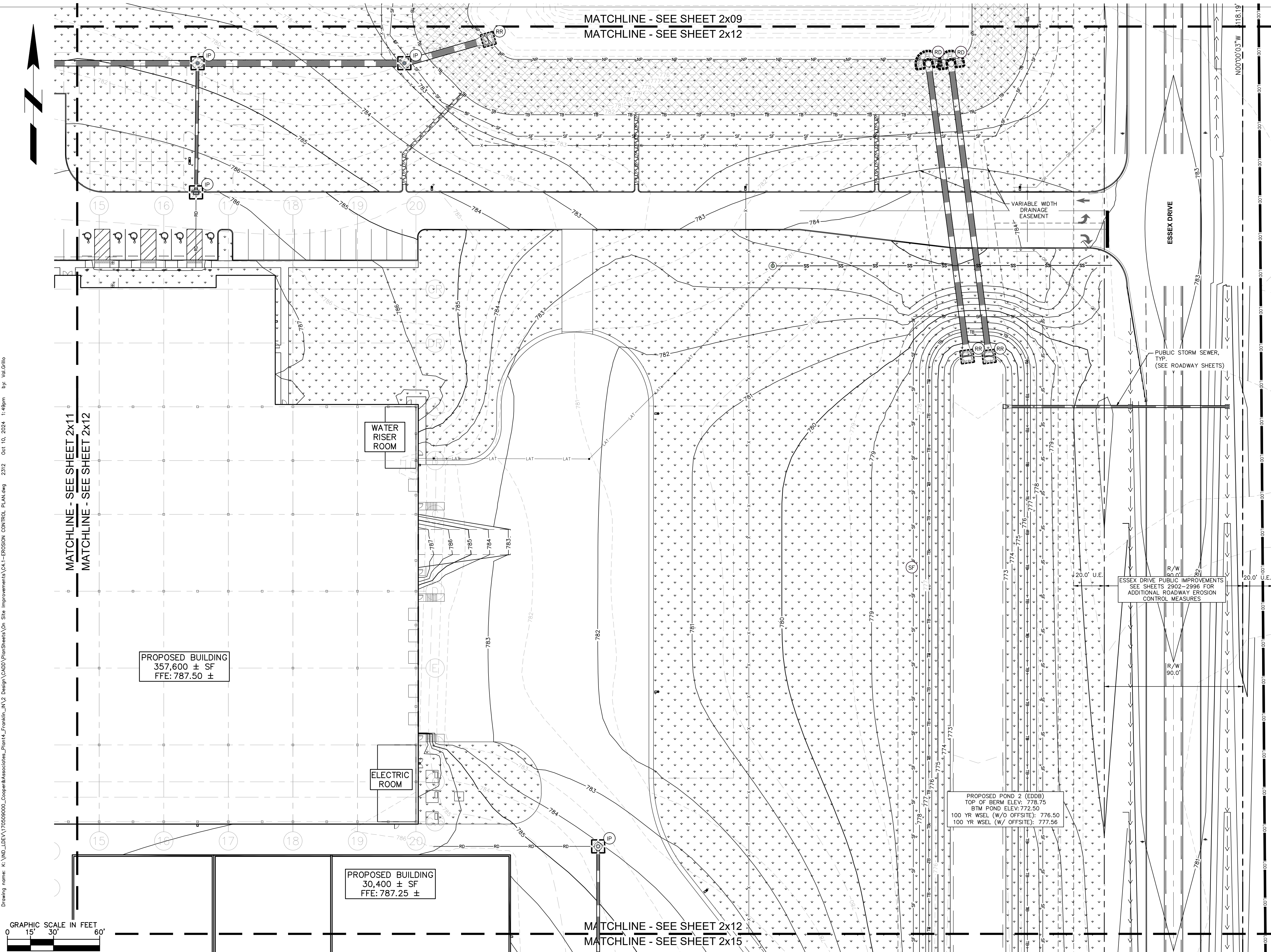
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EROSION CONTROL LEGEND	
TS	TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
EB	TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL #3)
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POST	AREA LIGHT	STORM ROOF DRAIN
SOIL BORING	ELECTRICAL BOX	STORM DRAIN MANHOLE
HANDICAP SYMBOL	ELECTRICAL HAND HOLE	STORM YARD DRAIN
SIGN	ELECTRICAL METER	FIRE DEPT CONNECTION
CABLE MANHOLE	ELECTRICAL MANHOLE	FIRE HYDRANT
CABLE PEDESTAL	ELECTRICAL MARKER	IRRIGATION VALVE
TELEPHONE PEDESTAL	ELECTRICAL TRANSFORMER	POST INDICATOR VALVE
TELEPHONE HAND HOLE	GUY POLE/WIRE	WELL
TELEPHONE MARKER	POWER POLE	WATER METER
TELEPHONE MANHOLE	TRAFFIC SIGNAL POLE	WATER VALVE
FIBER OPTIC MAKER	TRAFFIC MANHOLE	TREE / STUMP
SWALE		TOE OF BANK
FENCE LINE		TOP OF BANK
SS	SANITARY SEWER	FIB
SD	STORM DRAIN	OH
W	WATER LINE	OG
TREE LINE		UG
		TEL



PROFESSIONAL SEAL

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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

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 Cooper & Associates, LLC

Engineers - Project Managers
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 Ph. (844) 251-7823 www.quadplus.com

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 PHONE: 317-218-9560
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 KHA PROJECT # 170509000

Malarkey Roofing Products

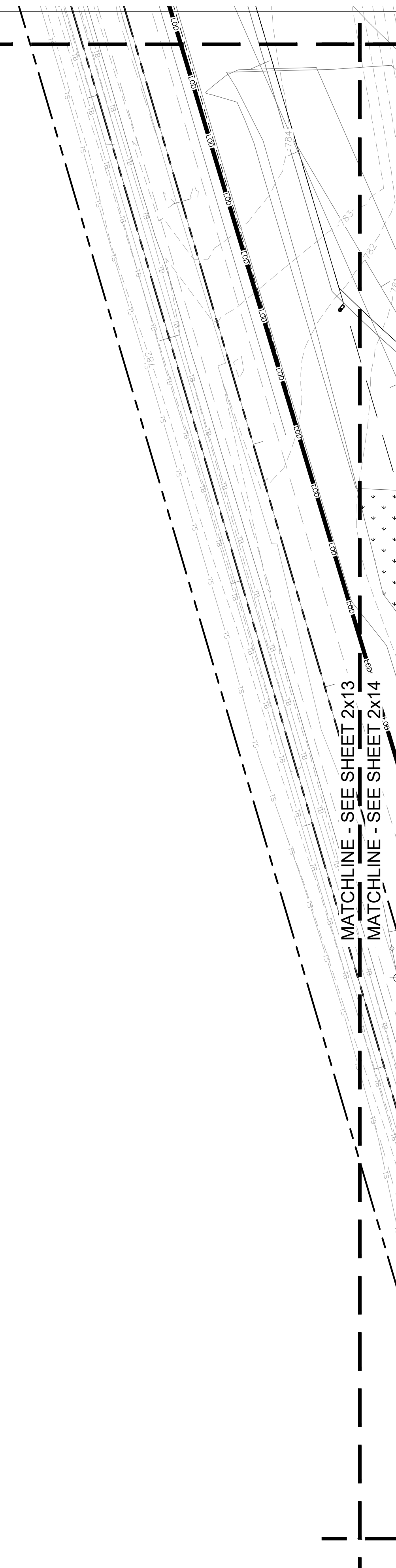
PROJ. NO. 170509000
 DWG. NO. 2312
 SHEET 0
 REV 0

PHASE 2 - FINAL BUILDOUT
 EROSION CONTROL PLAN

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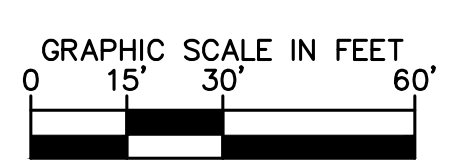
MATCHLINE - SEE SHEET 2x10
 MATCHLINE - SEE SHEET 2x13



EROSION CONTROL LEGEND	
TS	TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
EB	TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL DETAILS)
CE	CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
SF	SILT FENCE (SEE EROSION CONTROL DETAILS)
IP	AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
CW	CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
RR	RIP RAP (SEE EROSION CONTROL DETAILS)
RD	ROCK DONUT (SEE EROSION CONTROL DETAILS)
SS	TEMPORARY SOIL STOCKPILE
LD	LIMITS OF DISTURBANCE
CD	CHECK DAM
	EXISTING CONTOURS
	PROPOSED CONTOURS
NS	N.O.I. SIGN
SA	STAGING AREA
DD	DEBRIS DUMPSTER
PL	PORT-O-LET
SB	SEDIMENT BASIN
SN	SNOW FENCE
DW	DE-WATERING DEVICE

GENERAL PLAN NOTES
 REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

EXISTING LEGEND		
BOLLARD	MISC LID	YARD LIGHT
CONTROL BENCHMARK	MONITOR WELL	SANITARY CLEANOUT
ROW MONUMENT	GAS MARKER	SANITARY MANHOLE
FLAG POLE	GAS METER	VENT PIPE
MAIL BOX	GAS VALVE	STORM CURB INLET
UTILITY POLE	AC UNIT	STORM INLET
POST	AREA LIGHT	STORM ROOF DRAIN
SOIL BORING	ELECTRICAL BOX	STORM DRAIN MANHOLE
HANDICAP SYMBOL	ELECTRICAL HAND HOLE	STORM YARD DRAIN
SIGN	ELECTRICAL METER	FIRE DEPT CONNECTION
CABLE MANHOLE	ELECTRICAL MAINWOLE	FIRE HYDRANT
CABLE PEDESTAL	ELECTRICAL MARKER	IRRIGATION VALVE
TELEPHONE PEDESTAL	ELECTRICAL TRANSFORMER	POST INDICATOR VALVE
TELEPHONE HAND HOLE	GUY POLE/WIRE	WELL
TELEPHONE MARKER	POWER POLE	WATER METER
TELEPHONE MANHOLE	TRAFFIC SIGNAL POLE	WATER VALVE
FIBER OPTIC MAKER	TRAFFIC MANHOLE	TREE / STUMP
SWALE	TS	TOE OF SLOPE
FENCE LINE	TB	TOP OF BANK
SANITARY SEWER	FIB	UNDERGROUND FIBER OPTIC
STORM DRAIN	OHE	OVERHEAD ELECTRICAL
WATER LINE	GAS	UNDERGROUND GAS
TREE LINE	TEL	UNDERGROUND TELEPHONE



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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

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 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000

Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PHASE 2 - FINAL BUILDOUT
 EROSION CONTROL PLAN

PROJ. NO. 170509000
 DWG. NO. 2313
 SHEET 0
 REV 0

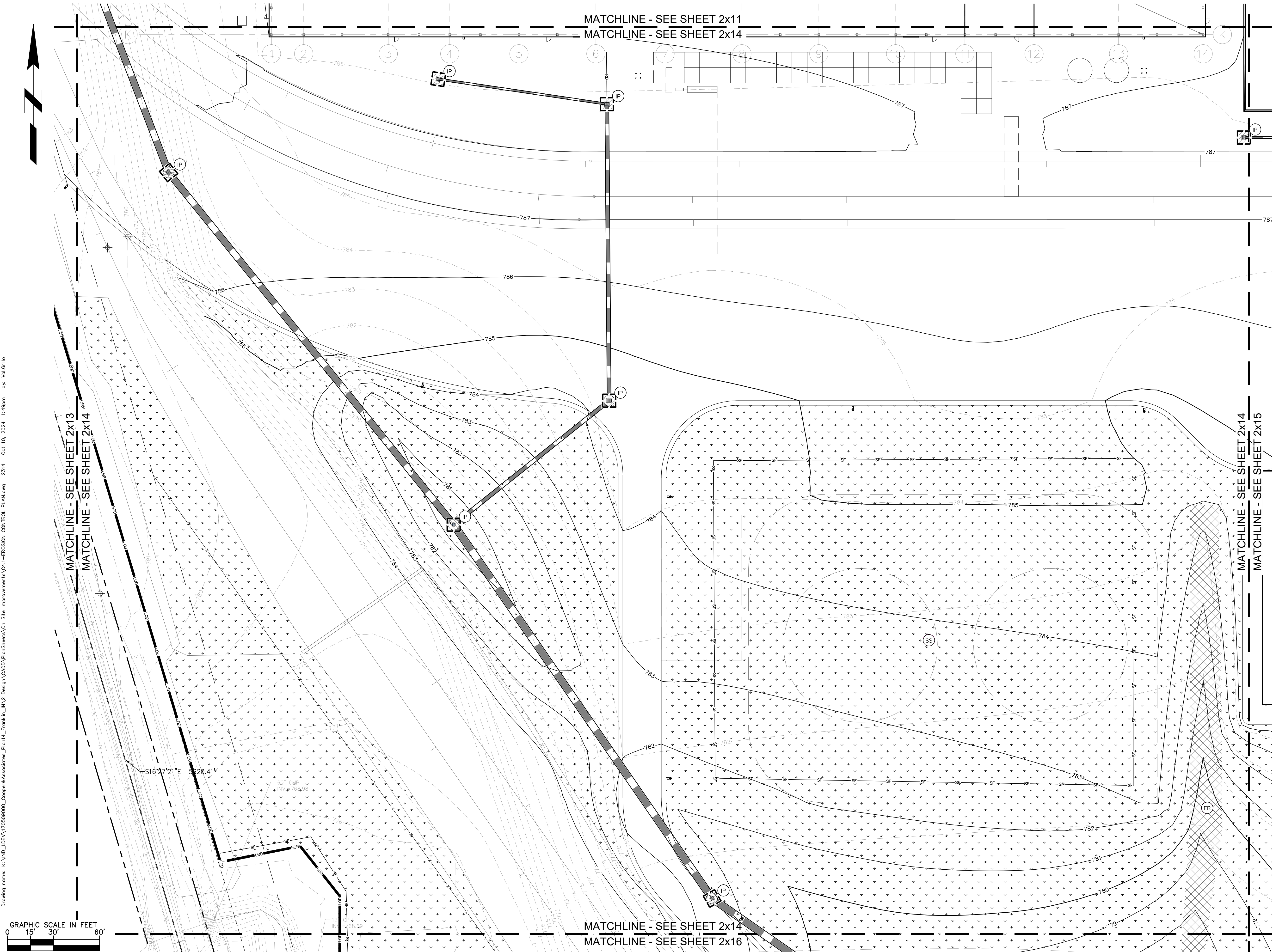
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EROSION CONTROL LEGEND	
TS	TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
EB	TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL NOTE #3)
CE	CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
SF	SILT FENCE (SEE EROSION CONTROL DETAILS)
IP	AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
CW	CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
RR	RIP RAP (SEE EROSION CONTROL DETAILS)
RD	ROCK DONUT (SEE EROSION CONTROL DETAILS)
SS	TEMPORARY SOIL STOCKPILE
LD	LIMITS OF DISTURBANCE
CD	CHECK DAM
	EXISTING CONTOURS
	PROPOSED CONTOURS
NS	N.O.I. SIGN
SA	STAGING AREA
DD	DEBRIS DUMPSTER
PL	PORT-O-LET
SB	SEDIMENT BASIN
SN	SNOW FENCE
DW	DE-WATERING DEVICE

GENERAL PLAN NOTES
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EXISTING LEGEND		
BOLLARD	MISC LID	YARD LIGHT
CONTROL BENCHMARK	MONITOR WELL	SANITARY CLEANOUT
FLAG POLE	GAS MARKER	SANITARY MANHOLE
MAIL BOX	GAS METER	VENT PIPE
UTILITY POLE	GAS VALVE	STORM CURB INLET
POST	AC UNIT	STORM INLET
SOIL BORING	AREA LIGHT	STORM ROOF DRAIN
HANDICAP SYMBOL	ELECTRICAL BOX	STORM DRAIN MANHOLE
SIGN	ELECTRICAL HAND HOLE	STORM YARD DRAIN
CABLE MANHOLE	ELECTRICAL METER	FIRE DEPT CONNECTION
TELEPHONE PEDESTAL	ELECTRICAL MAINHOLE	FIRE HYDRANT
TELEPHONE HAND HOLE	ELECTRICAL MARKER	IRRIGATION VALVE
TELEPHONE MANHOLE	ELECTRICAL TRANSFORMER	POST INDICATOR VALVE
FIBER OPTIC MAKER	GUY POLE/WIRE	WELL
SWALE	POWER POLE	WATER METER
FENCE LINE	TRAFFIC SIGNAL POLE	WATER VALVE
SANITARY SEWER	TRAFFIC MANHOLE	TREE / STUMP
STORM DRAIN	TOE OF SLOPE	
WATER LINE	TOP OF BANK	
TREE LINE	FIB	UNDERGROUND FIBER OPTIC
	OHE	OVERHEAD ELECTRICAL
	UG	UNDERGROUND GAS
	TEL	UNDERGROUND TELEPHONE



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DWG SIZE: 36" x 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
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 KHA PROJECT # 170509000

Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2314
 SHEET 0
 REV 0

TITLE - PHASE 2 - FINAL BUILDOUT
 EROSION CONTROL PLAN

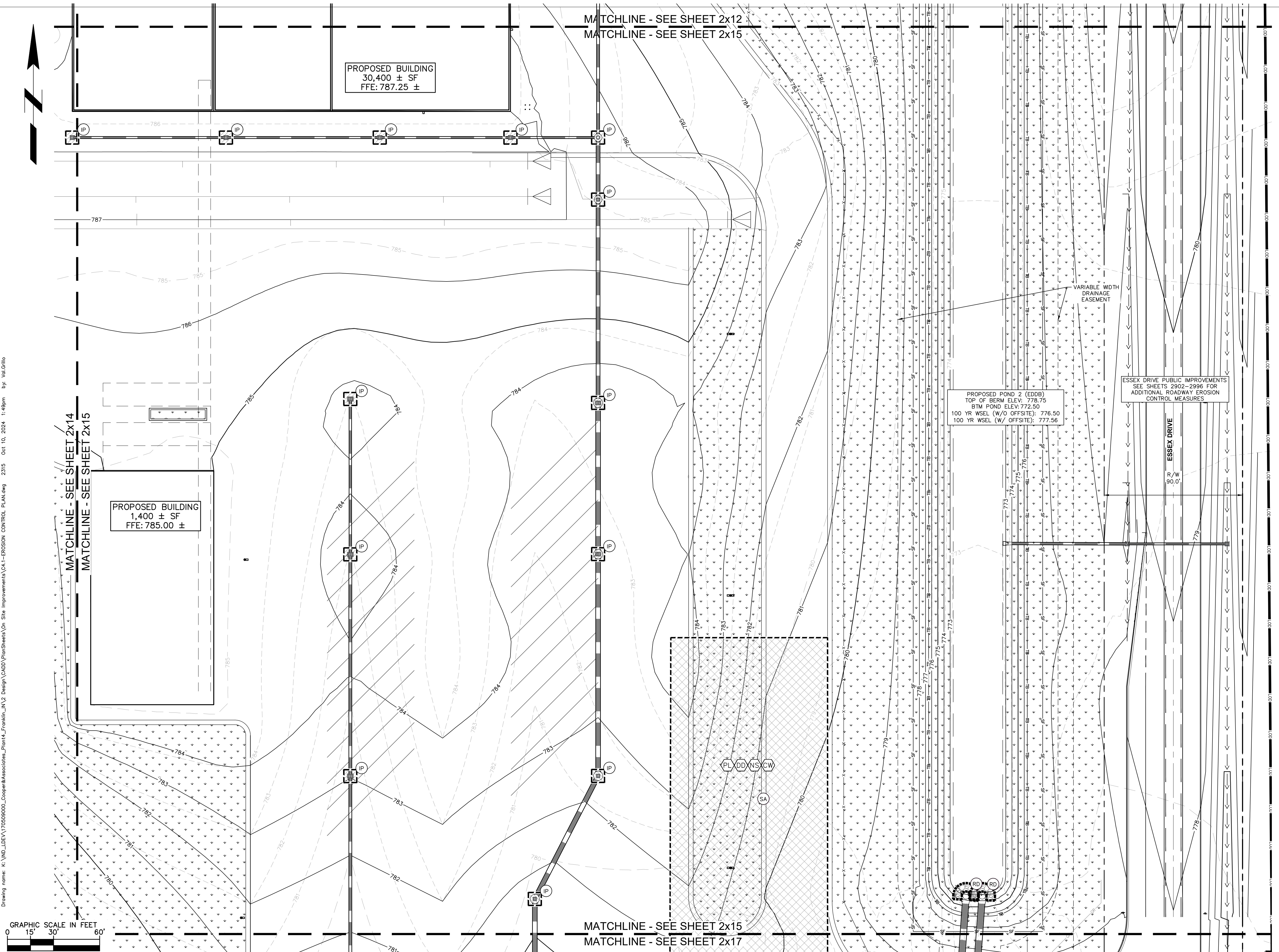
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EROSION CONTROL LEGEND	
TS	TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
EB	TEMPORARY EROSION CONTROL BLANKET (SEE TEMPORARY EROSION CONTROL NOTE #3)
CE	CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
SF	SILT FENCE (SEE EROSION CONTROL DETAILS)
IP	AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
CW	CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
RR	RIP RAP (SEE EROSION CONTROL DETAILS)
RD	ROCK DONUT (SEE EROSION CONTROL DETAILS)
SS	TEMPORARY SOIL STOCKPILE
LD	LIMITS OF DISTURBANCE
CD	CHECK DAM
	EXISTING CONTOURS
	PROPOSED CONTOURS
NS	N.O.I. SIGN
SA	STAGING AREA
DD	DEBRIS DUMPSTER
PL	PORT-O-LET
SB	SEDIMENT BASIN
SN	SNOW FENCE
DW	DE-WATERING DEVICE

GENERAL PLAN NOTES
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EXISTING LEGEND					
○	BOLLARD	○	MISC LID	○	YARD LIGHT
⊗	CONTROL BENCHMARK	⊗	MONITOR WELL	⊗	SANITARY CLEANOUT
⊗	ROW MONUMENT	⊗	GAS MARKER	⊗	SANITARY MANHOLE
⊗	FLAG POLE	⊗	GAS METER	⊗	VENT PIPE
⊗	MAIL BOX	⊗	GAS VALVE	⊗	STORM CURB INLET
⊗	UTILITY POLE	⊗	AC UNIT	⊗	STORM INLET
⊗	POST	⊗	AREA LIGHT	⊗	STORM ROOF DRAIN
⊗	SOIL BORING	⊗	ELECTRICAL BOX	⊗	STORM DRAIN MANHOLE
⊗	HANDICAP SYMBOL	⊗	ELECTRICAL HAND HOLE	⊗	STORM YARD DRAIN
⊗	SIGN	⊗	ELECTRICAL METER	⊗	FIRE DEPT CONNECTION
⊗	CABLE MANHOLE	⊗	ELECTRICAL MANHOLE	⊗	FIRE HYDRANT
⊗	CABLE PEDESTAL	⊗	ELECTRICAL MARKER	⊗	IRRIGATION VALVE
⊗	TELEPHONE PEDESTAL	⊗	ELECTRICAL TRANSFORMER	⊗	POST INDICATOR VALVE
⊗	TELEPHONE HAND HOLE	⊗	GUY POLE/WIRE	⊗	WELL
⊗	TELEPHONE MARKER	⊗	POWER POLE	⊗	WATER METER
⊗	TELEPHONE MANHOLE	⊗	TRAFFIC SIGNAL POLE	⊗	WATER VALVE
⊗	FIBER OPTIC MAKER	⊗	TRAFFIC MANHOLE	⊗	TREE / STUMP
⊗	SWALE	⊗	TOE OF SLOPE	⊗	TOE OF SLOPE
X	FENCE LINE	⊗	TOP OF BANK	⊗	TOP OF BANK
SS	SANITARY SEWER	⊗	FIB	⊗	UNDERGROUND FIBER OPTIC
SD	STORM DRAIN	⊗	OHE	⊗	OVERHEAD ELECTRICAL
W	WATER LINE	⊗	GAS	⊗	UNDERGROUND GAS
---	TREE LINE	⊗	TEL	⊗	UNDERGROUND TELEPHONE



PROFESSIONAL SEAL

 NOT APPROVED FOR CONSTRUCTION
 ANTHONY MICHAEL COOPER
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF INDIANA
 NO. 47424

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 KHA PROJECT # 170509000

Malarkey Roofing Products
 MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000	DWG. NO. 2315
SHEET 0	REV 0

TITLE - PHASE 2 - FINAL BUILDOUT
 EROSION CONTROL PLAN

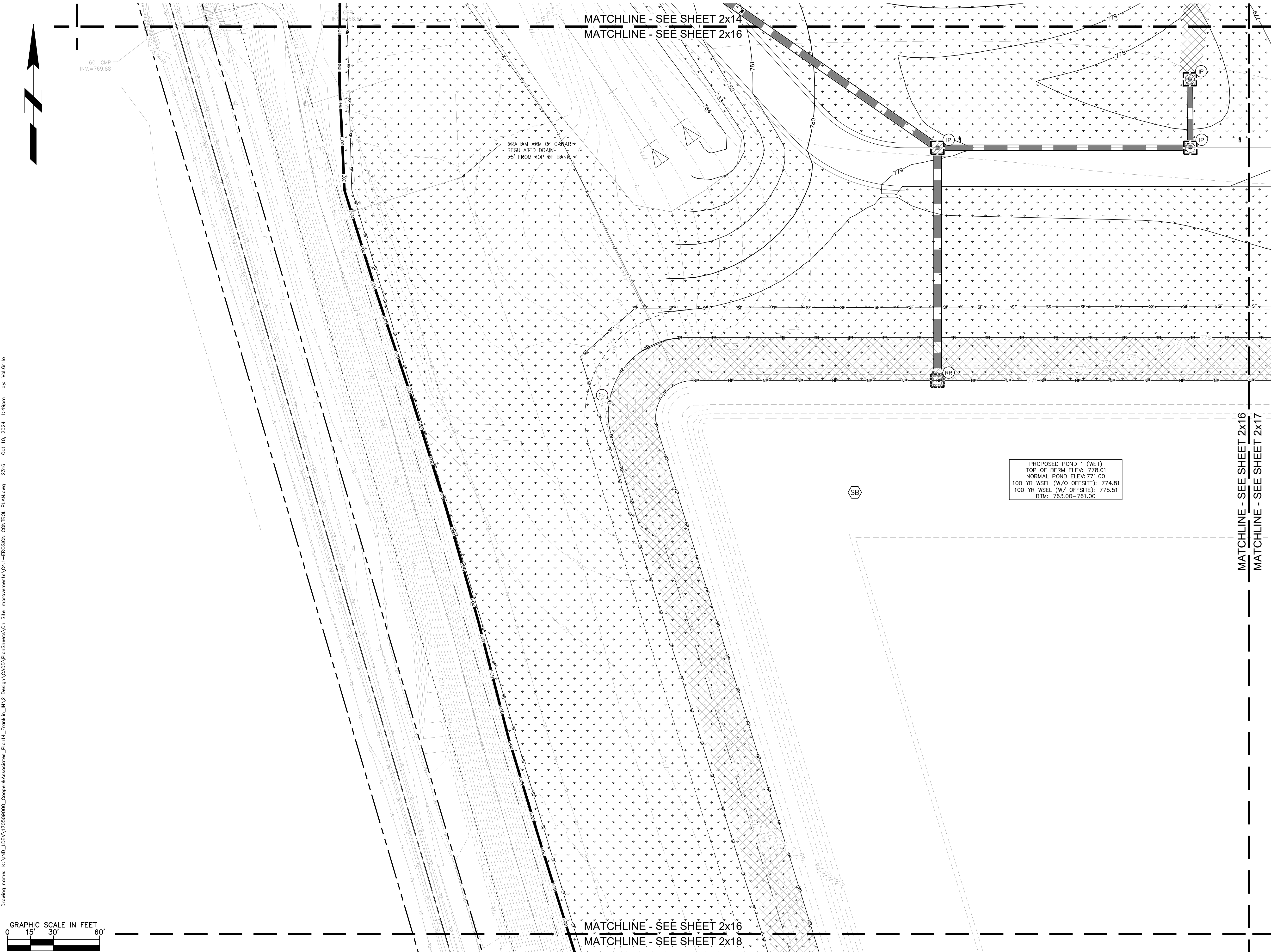
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EROSION CONTROL LEGEND	
TS	TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
EB	TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL NOTE #3)
CE	CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
SF	SILT FENCE (SEE EROSION CONTROL DETAILS)
IP	AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
CW	CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
RR	RIP RAP (SEE EROSION CONTROL DETAILS)
RD	ROCK DONUT (SEE EROSION CONTROL DETAILS)
SS	TEMPORARY SOIL STOCKPILE
LD	LIMITS OF DISTURBANCE
CD	CHECK DAM
	-620- EXISTING CONTOURS
	-620- PROPOSED CONTOURS
NS	N.O.I. SIGN
SA	STAGING AREA
DD	DEBRIS DUMPSTER
PL	PORT-O-LET
SB	SEDIMENT BASIN
SN	SNOW FENCE
DW	DE-WATERING DEVICE

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ROW MONUMENT	GAS MARKER	SANITARY MANHOLE
FLAG POLE	GAS METER	VENT PIPE
MAIL BOX	GAS VALVE	STORM CURB INLET
UTILITY POLE	AC UNIT	STORM INLET
POST	AREA LIGHT	STORM ROOF DRAIN
SOIL BORING	ELECTRICAL BOX	STORM DRAIN MANHOLE
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FIBER OPTIC MAKER	TRAFFIC MANHOLE	TREE / STUMP
SWALE	TS	TOE OF SLOPE
FENCE LINE	TB	TOP OF BANK
SANITARY SEWER	FIB	UNDERGROUND FIBER OPTIC
STORM DRAIN	OHE	OVERHEAD ELECTRICAL
WATER LINE	GAS	UNDERGROUND GAS
TREE LINE	TEL	UNDERGROUND TELEPHONE



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MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2316

TITLE - PHASE 2 - FINAL BUILDOUT
 EROSION CONTROL PLAN

SHEET 0
 REV 0

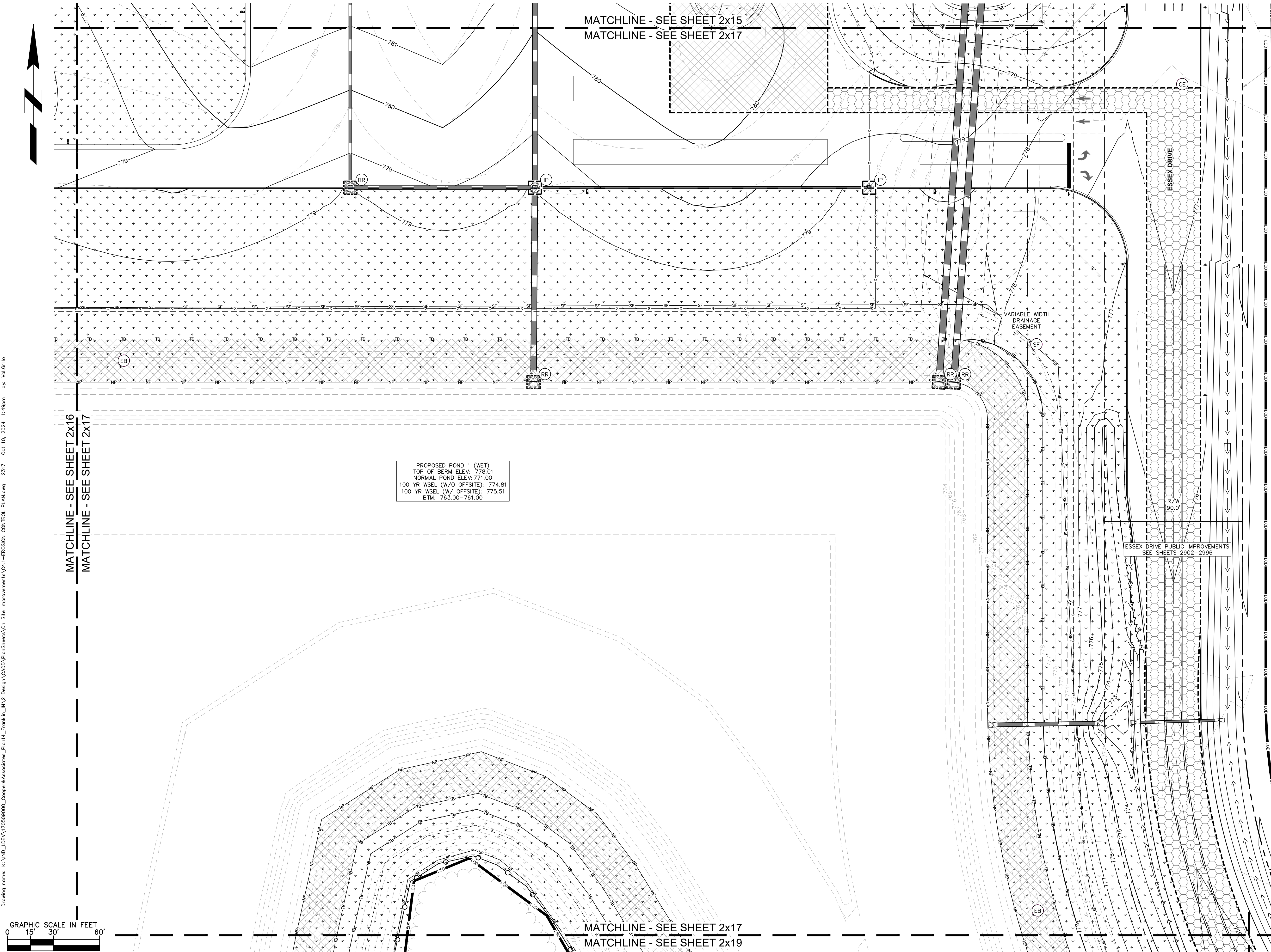
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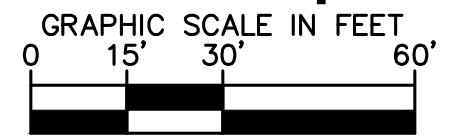
EROSION CONTROL LEGEND	
TS	TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
EB	TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL #3)
CE	CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
SF	SILT FENCE (SEE EROSION CONTROL DETAILS)
IP	AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
CW	CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
RR	RIP RAP (SEE EROSION CONTROL DETAILS)
RD	ROCK DONUT (SEE EROSION CONTROL DETAILS)
SS	TEMPORARY SOIL STOCKPILE
LD	LIMITS OF DISTURBANCE
CD	CHECK DAM
	EXISTING CONTOURS
	PROPOSED CONTOURS
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FIBER OPTIC MARKER	TRAFFIC MANHOLE	TREE / STUMP
SWALE		TOE OF SLOPE
FENCE LINE		TOP OF BANK
SS	SANITARY SEWER	FIB
SD	STORM DRAIN	OHE
W	WATER LINE	GAS
TREE LINE		TEL
		UNDERGROUND FIBER OPTIC
		UNDERGROUND ELECTRICAL
		UNDERGROUND GAS
		UNDERGROUND TELEPHONE



PROPOSED POND 1 (WET)
 TOP OF BERM ELEV: 778.01
 NORMAL POND ELEV: 771.00
 100 YR WSEL (W/O OFFSITE): 774.81
 100 YR WSEL (W/ OFFSITE): 775.51
 BTM: 763.00-761.00



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 KHA PROJECT # 170509000

Malarkey Roofing Products

MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
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TITLE- PHASE 2 - FINAL BUILDOUT
 EROSION CONTROL PLAN

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EROSION CONTROL LEGEND

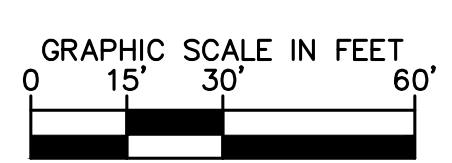
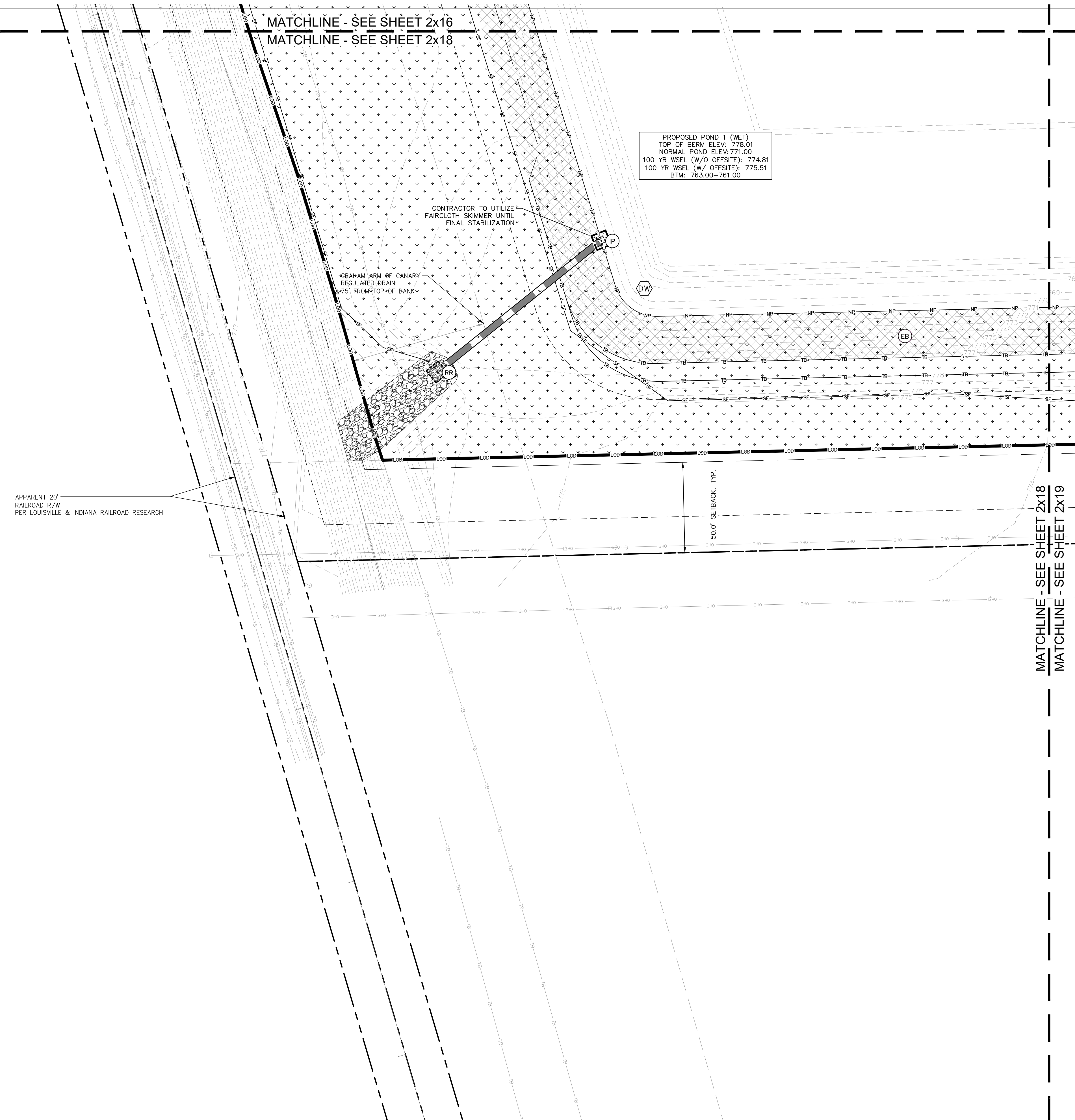
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- NS N.O.I. SIGN
- SA STAGING AREA
- DD DEBRIS DUMPSTER
- PL PORT-O-LET
- SB SEDIMENT BASIN
- SN SNOW FENCE
- DW DE-WATERING DEVICE

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EXISTING LEGEND

- BOLLARD
- CONTROL BENCHMARK
- FLAG POLE
- MAIL BOX
- UTILITY POLE
- POST
- SOIL BORING
- HANDICAP SYMBOL
- SIGN
- CABLE MANHOLE
- CABLE PEDESTAL
- TELEPHONE PEDESTAL
- TELEPHONE HAND HOLE
- TELEPHONE MARKER
- TELEPHONE MANHOLE
- FIBER OPTIC MARKER
- SWALE
- FENCE LINE
- SANITARY SEWER
- STORM DRAIN
- WATER LINE
- TREE LINE
- MISC LID
- MONITOR WELL
- GAS MARKER
- GAS METER
- GAS VALVE
- AC UNIT
- AREA LIGHT
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PHASE 2 - FINAL BUILDOUT
EROSION CONTROL PLAN

PROJ. NO. 170509000
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EROSION CONTROL LEGEND

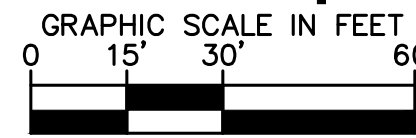
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TITLE- PHASE 2 - FINAL BUILDOUT
EROSION CONTROL PLAN

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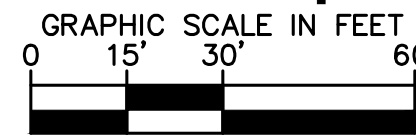
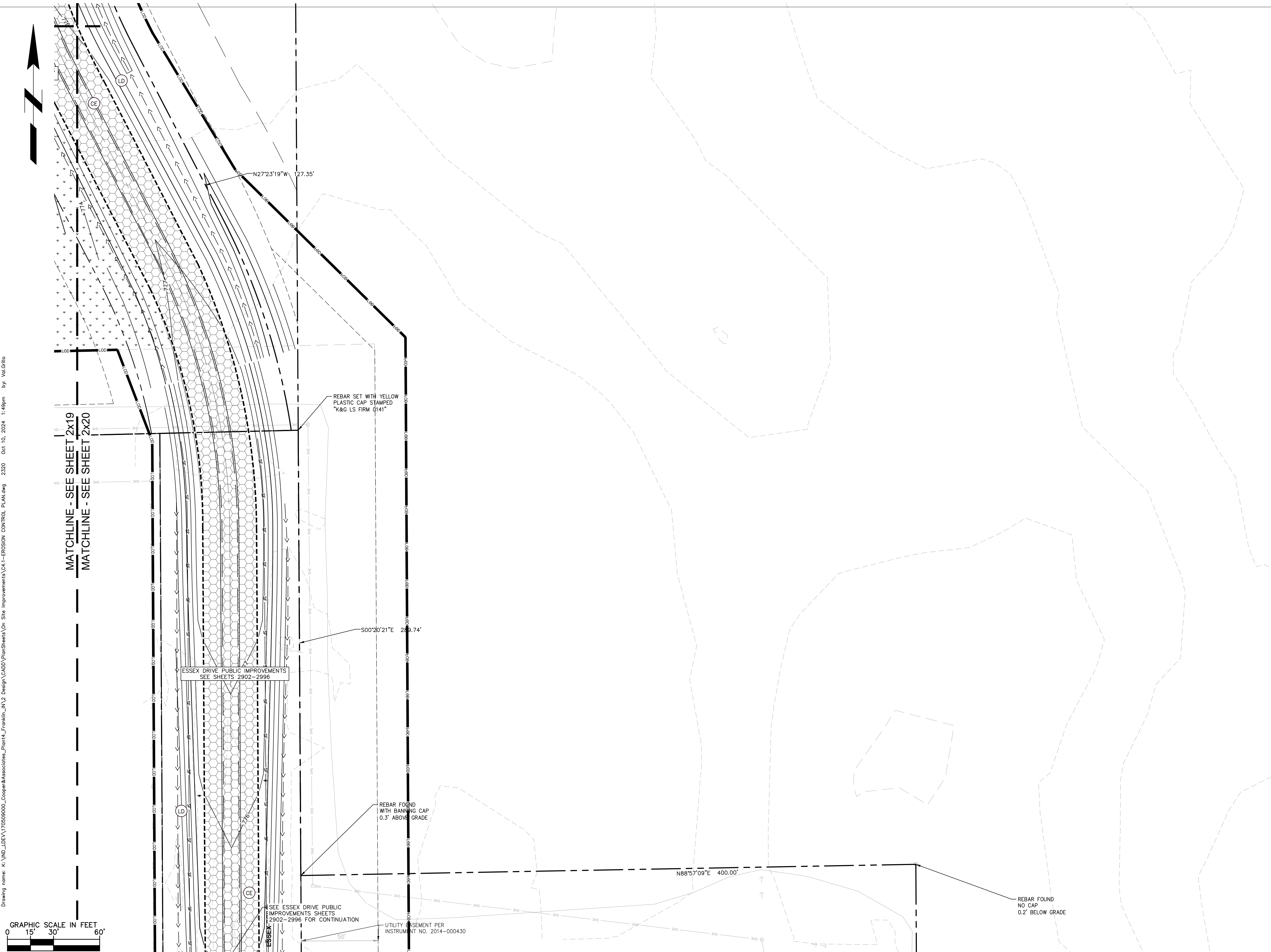
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ROW MONUMENT	GAS MARKER	SANITARY MANHOLE
FLAG POLE	GAS METER	VENT PIPE
MAIL BOX	GAS VALVE	STORM CURB INLET
UTILITY POLE	AC UNIT	STORM INLET
POST	AREA LIGHT	STORM ROOF DRAIN
SOIL BORING	ELECTRICAL BOX	STORM DRAIN MANHOLE
HANDICAP SYMBOL	ELECTRICAL HAND HOLE	STORM YARD DRAIN
SIGN	ELECTRICAL METER	FIRE DEPT CONNECTION
CABLE MANHOLE	ELECTRICAL MANHOLE	FIRE HYDRANT
CABLE PEDESTAL	ELECTRICAL MARKER	IRRIGATION VALVE
TELEPHONE PEDESTAL	ELECTRICAL TRANSFORMER	POST INDICATOR VALVE
TELEPHONE HAND HOLE	GUY POLE/WIRE	WELL
TELEPHONE MARKER	POWER POLE	WATER METER
TELEPHONE MANHOLE	TRAFFIC SIGNAL POLE	WATER VALVE
FIBER OPTIC MARKER	TRAFFIC MANHOLE	TREE / STUMP
SWALE	TS	TOE OF SLOPE
FENCE LINE	TB	TOP OF BANK
SANITARY SEWER	FIB	UNDERGROUND FIBER OPTIC
STORM DRAIN	OHE	OVERHEAD ELECTRICAL
WATER LINE	GAS	UNDERGROUND GAS
TREE LINE	TEL	UNDERGROUND TELEPHONE



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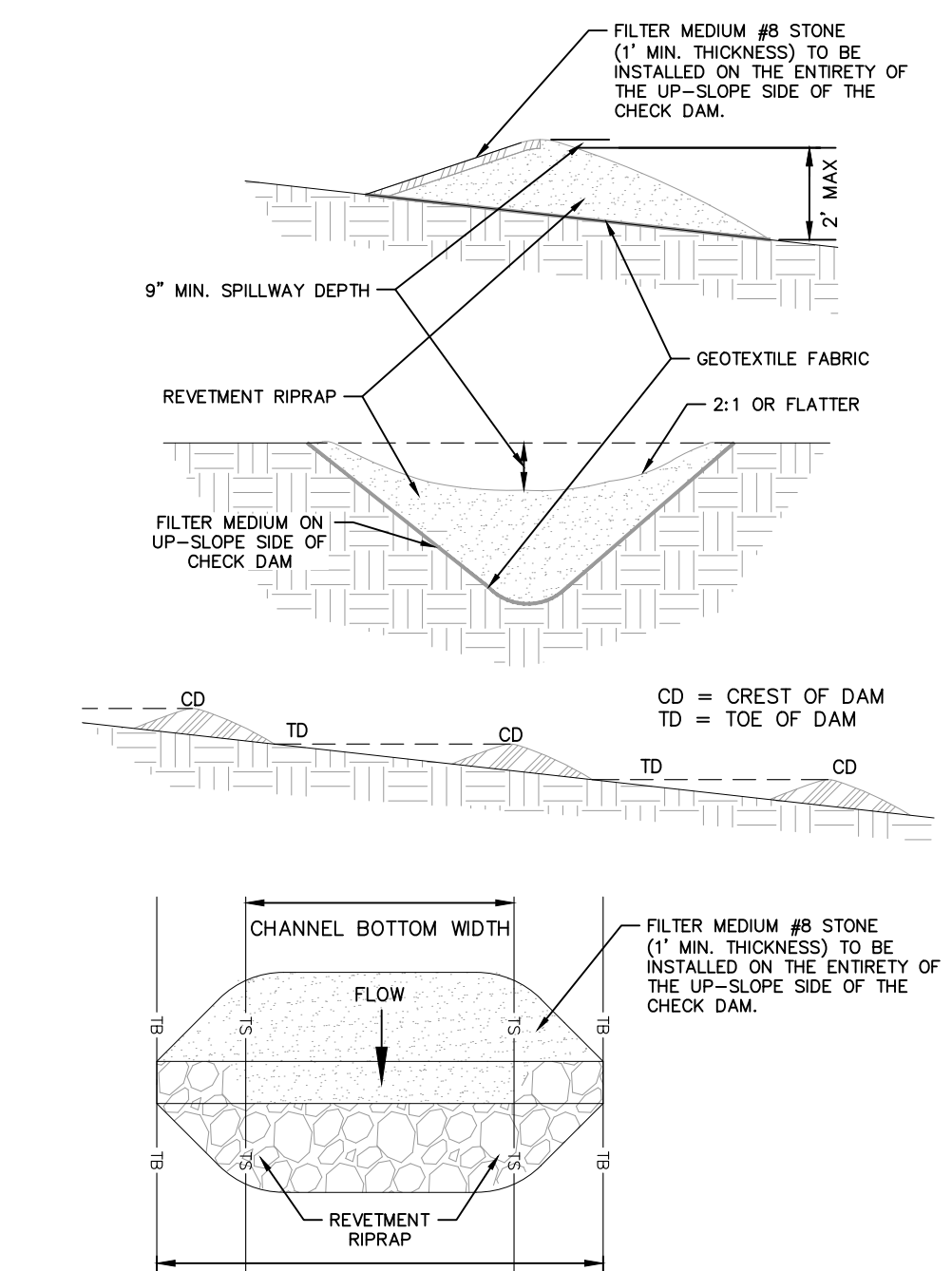
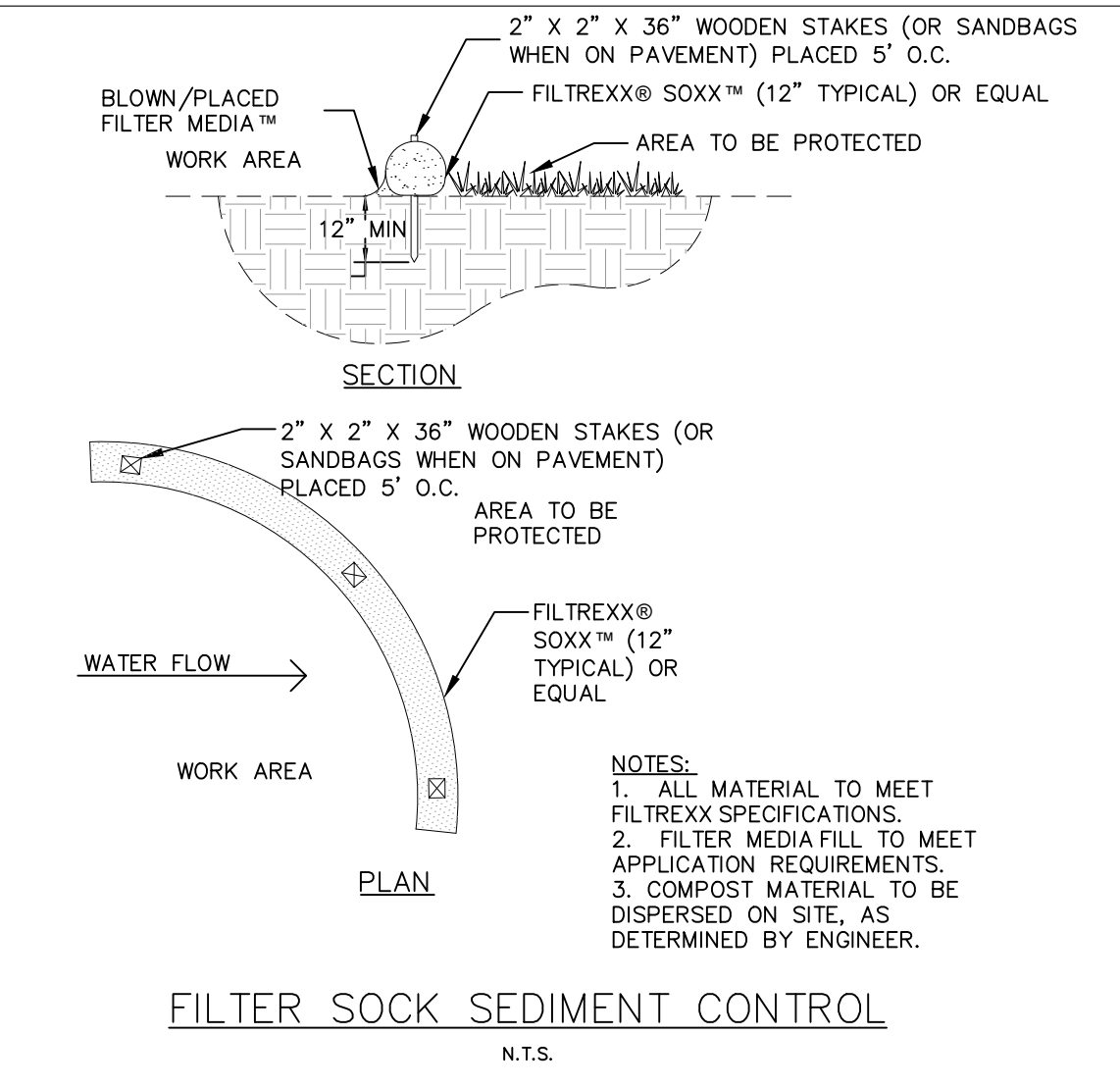
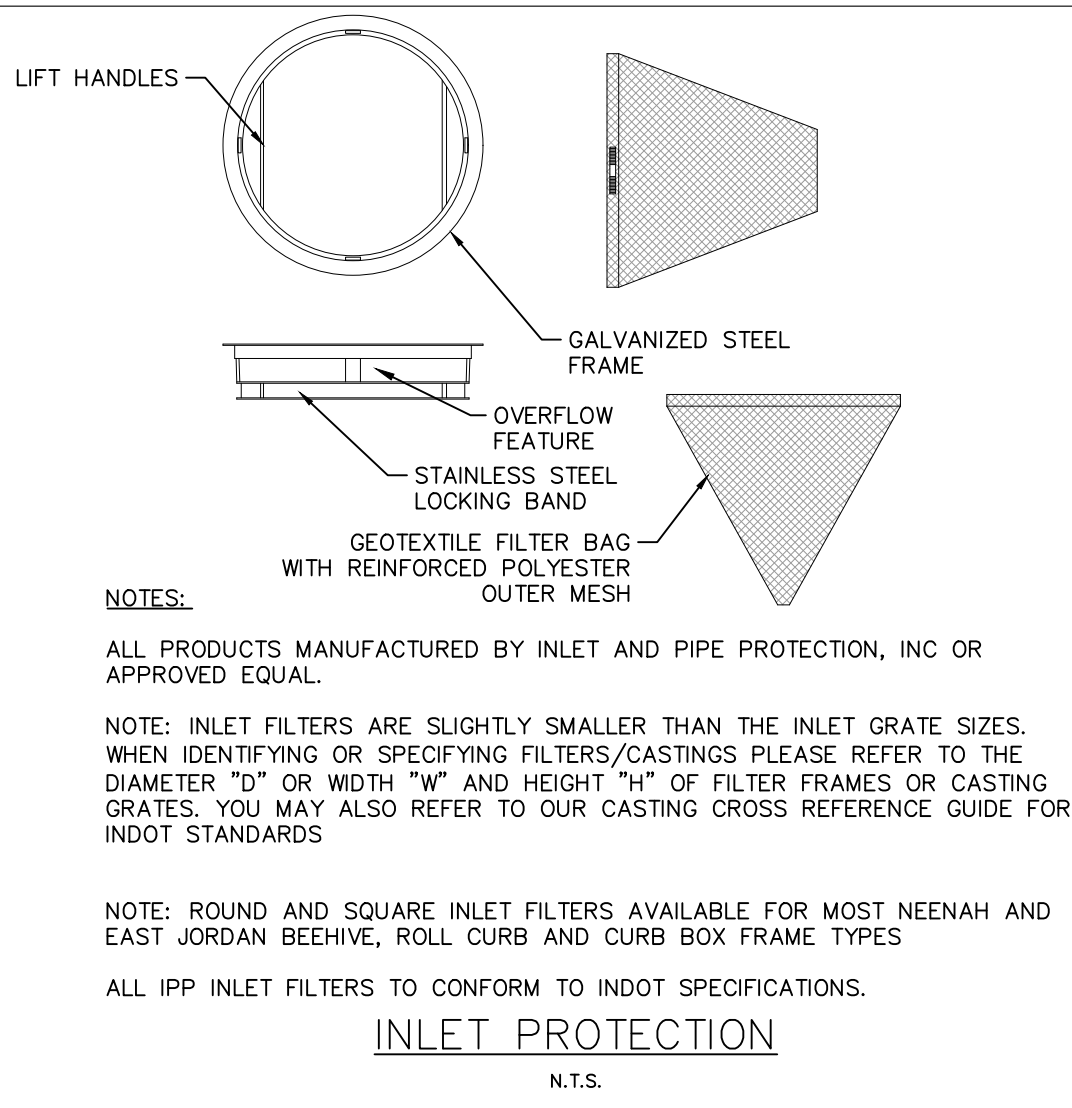
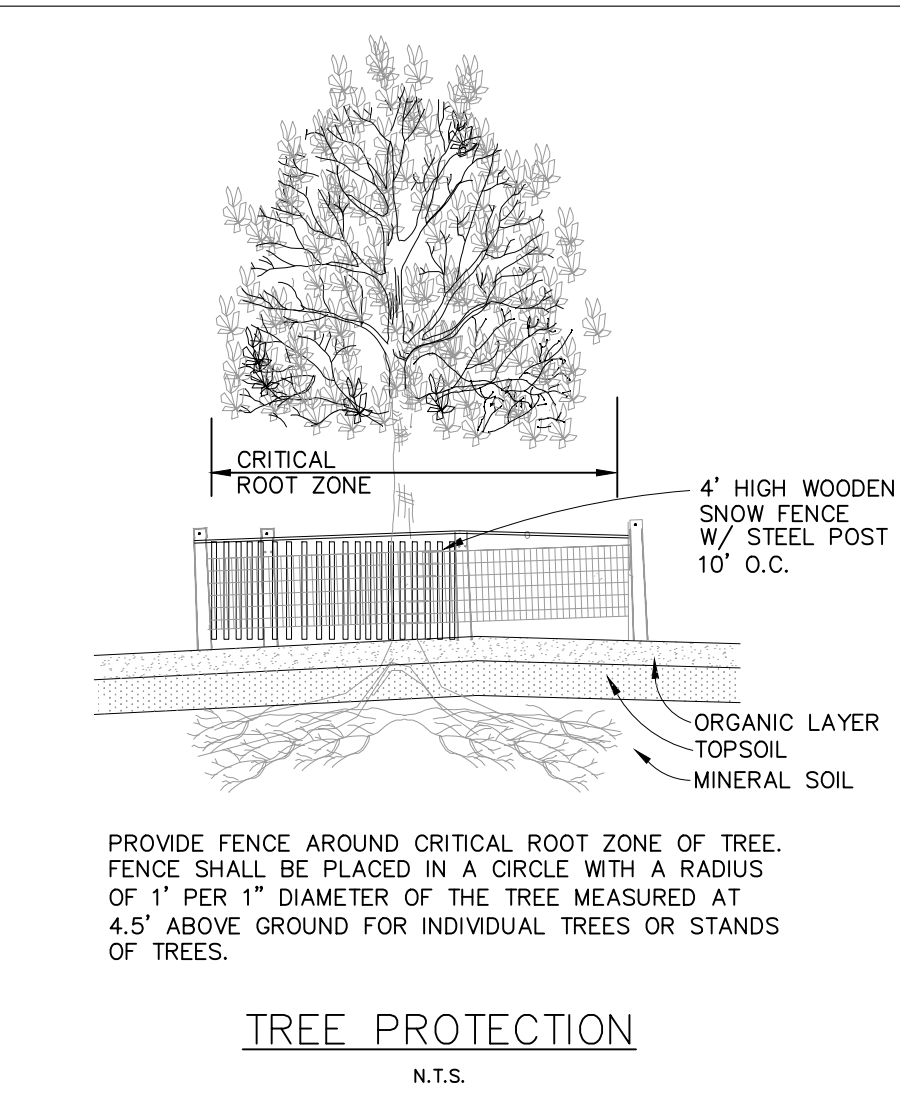
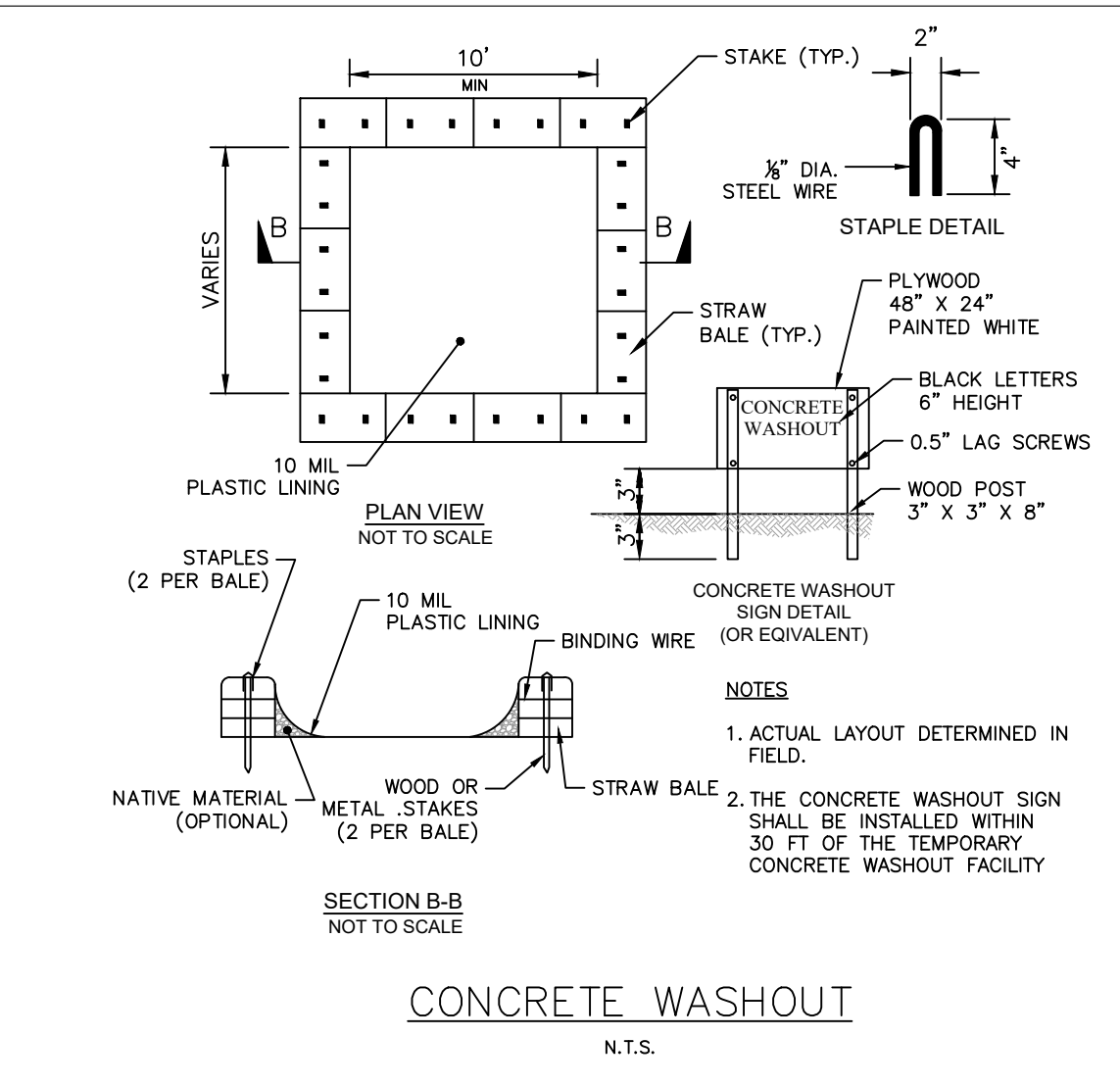
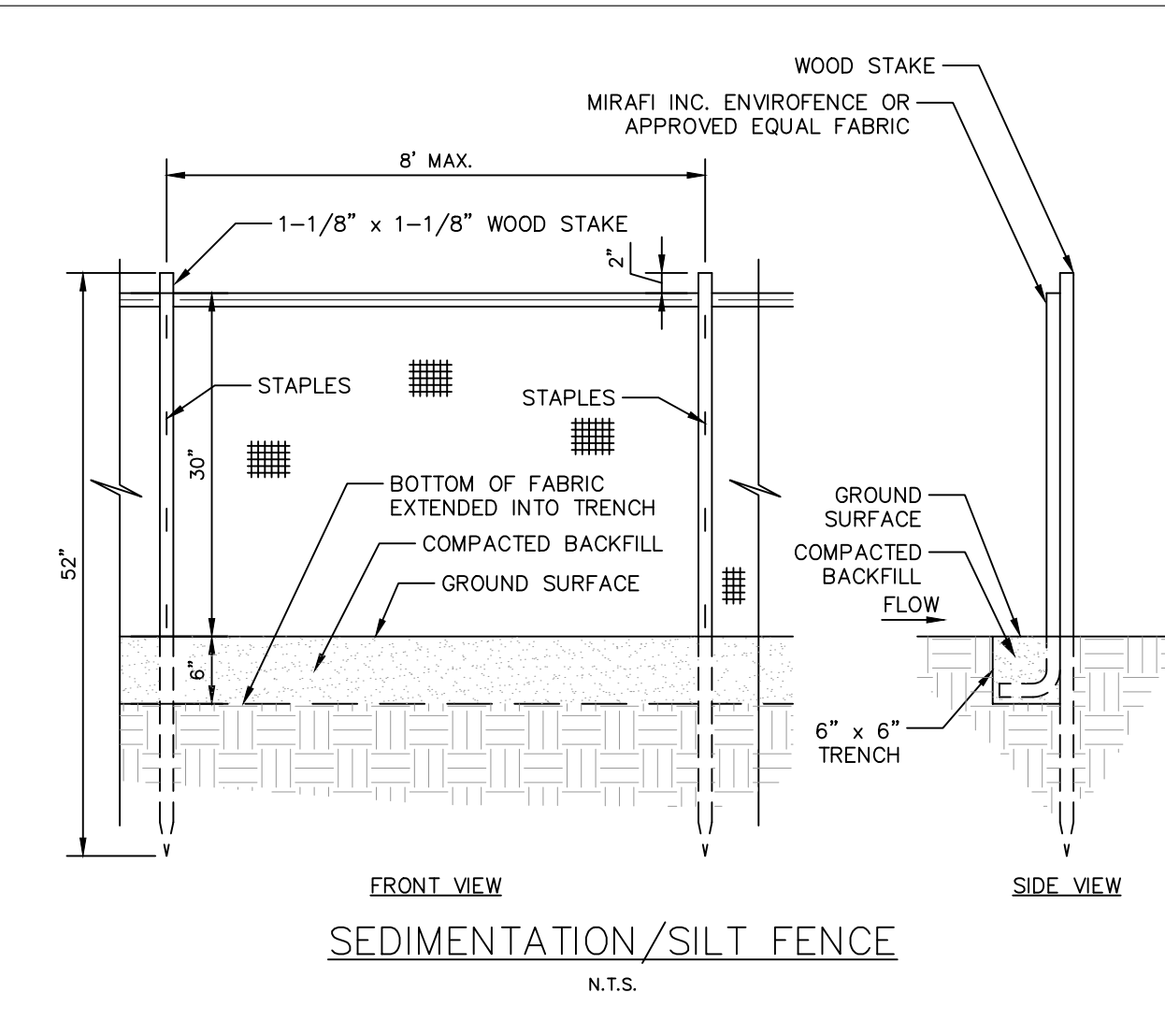
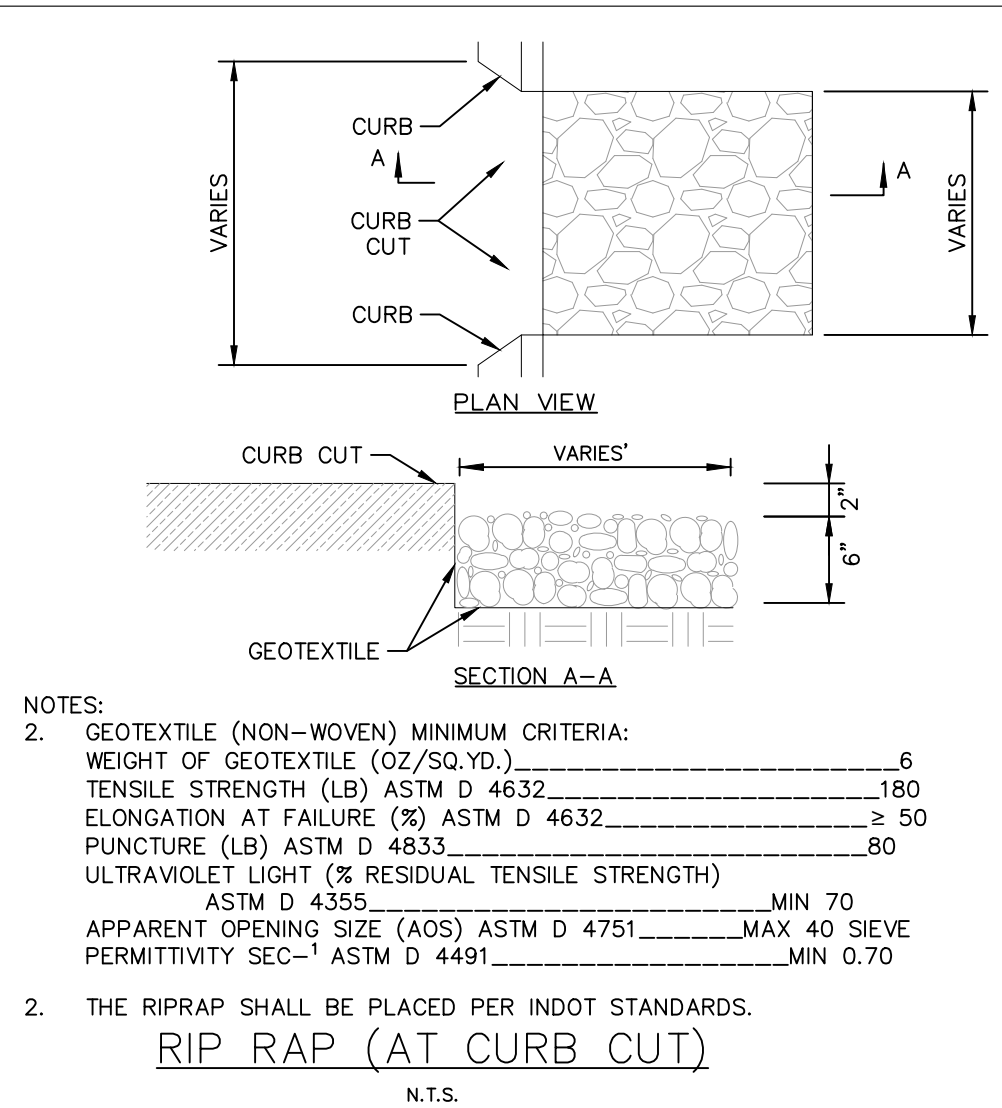
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PHASE 2 - FINAL BUILDOUT
EROSION CONTROL PLAN

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SPECIFICATIONS
 - CONTRIBUTING DRAINAGE AREA (2) TWO ACRES MAXIMUM.

RIPRAP ROCK CHECK DAM
 - DAM HEIGHT: (2) TWO FEET MAXIMUM. CENTER OF THE DAM TO BE AT LEAST NINE INCHES LOWER THAN THE POINTS OF CONTACT BETWEEN THE UPPERMOST POINTS OF THE RIPRAP DAM AND CHANNEL BANKS.
 - SIDE SLOPE: RATIO OF 2:1 OR FLATTER.
 - SPACING: TOE OF THE UPSTREAM DAM AT SAME ELEVATION AS OVERFLOW WEIR OF THE DOWNSTREAM DAM.
 - DO NOT USE CHECK DAMS WITHIN PERENNIAL STREAMS.

OVERFLOW AREAS
 - STABILIZED TO REDUCE SCOUR/EROSION ALONG SIDES AND BELOW THE DAM.

FILTER MEDIUM
 - PLACED ON UP-SLOPE SIDE OF DAM.
 - HEIGHT: TO BASE OF OVERFLOW WEIR NOTCH.

MATERIALS
 - GEOTEXTILE FABRIC (8 OUNCE OR HEAVIER; NON-WOVEN).
 - INDOT REVEMENT RIPRAP FOR DAM.
 - INDOT CA NO. 5 AGGREGATE (USE AS FILTER MEDIUM (AGGREGATE MUST BE WELL-GRADED)).
 - NOTE: INDOT CA NO. 8 AGGREGATE IS ACCEPTABLE IF NO. 5 IS NOT AVAILABLE. THE USE OF NO. 8 AGGREGATE MAY RESULT IN MORE FREQUENT OVERTOPPING OF THE STRUCTURE AND WILL INCREASE THE FREQUENCY OF STRUCTURE MAINTENANCE.

INSTALLATION
 1. LAY OUT THE LOCATION OF THE CHECK DAM.
 2. EXCAVATE A CUTOFF TRENCH INTO THE CHANNEL BOTTOM AND DITCH BANKS, EXTENDING IT A MINIMUM OF 18 INCHES BEYOND THE TOP OF THE DITCH BANK.
 3. INSTALL AND ANCHOR FILTER FABRIC IN THE CHANNEL AND CUTOFF TRENCH.
 4. PLACE RIPRAP IN THE CUTOFF TRENCH AND CHANNEL TO THE LINES AND DIMENSIONS SHOWN IN THE CONSTRUCTION PLANS. THE CENTER OF EACH DAM MUST BE AT LEAST NINE INCHES LOWER THAN THE UPPERMOST POINTS OF CONTACT BETWEEN THE RIPRAP DAM AND CHANNEL BANKS.
 5. EXTEND THE RIPRAP AT LEAST 18 INCHES BEYOND THE TOP OF THE CHANNEL BANKS TO KEEP OVERFLOW FROM ERODING AREAS ADJACENT TO THE CHANNEL BANKS BEFORE IT RE-ENTERS THE CHANNEL.
 6. PLACE FILTER MEDIUM (INDOT CA NO. 5 AGGREGATE) ON THE UP-SLOPE SIDE OF THE DAM. PLACE FILTER MEDIUM OVER THE ENTIRE FACE OF THE DAM UP TO THE BASE OF THE OVERFLOW WEIR NOTCH.
 7. STABILIZE THE CHANNEL ABOVE THE UPPERMOST DAM.
 8. INSTALL AN EROSION-RESISTANT LINING IN THE CHANNEL BELOW THE LOWERMOST DAM. THE LINING SHOULD EXTEND A MINIMUM DISTANCE OF SIX FEET BELOW THE DAM.
 9. ADDITIONAL SEDIMENT STORAGE CAN BE PROVIDED BY EXCAVATING A SMALL SEDIMENT TRAP ON THE UPSTREAM SIDE OF THE CHECK DAM.

MAINTENANCE
 - INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
 - IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, INSTALL AN EROSION-RESISTANT LINER IN THAT PORTION OF THE CHANNEL.
 - ADD RIPRAP AND AGGREGATE AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION OF THE DAMS.
 - WHEN DAMS ARE NO LONGER NEEDED, REMOVE THE RIPRAP AND AGGREGATE AND STABILIZE THE CHANNEL, USING AN EROSION-RESISTANT LINING IF NECESSARY. (RIPRAP AND AGGREGATE FROM THE DAM MAY BE REMOVED OR UTILIZED TO STABILIZE THE CHANNEL.)
 - REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE DAM TO MAINTAIN CHANNEL CAPACITY, ALLOW DRAINAGE THROUGH THE DAM, AND PREVENT LARGE FLOW FROM DISPLACING SEDIMENT.

SPECIFICATIONS CAPACITY
 - PEAK RUNOFF FROM A 10-YEAR FREQUENCY, 24-HOUR STORM EVENT OR THE DESIGN DISCHARGE OF THE WATER CONVEYANCE STRUCTURE, WHICHEVER IS GREATER.
 - MAX VELOCITY TEN FEET PER SECOND.

APRON
 - ALIGNED STRAIGHT WITH CHANNEL FLOW. IF A CURVE IS NECESSARY TO ALIGN THE APRON WITH THE RECEIVING STREAM, LOCATE THE CURVE IN THE UPSTREAM SECTION OF THE APRON.
 - (AT) THICKNESS
 --- 1.2 TIMES THE MAXIMUM STONE DIAMETER FOR A D50 STONE SIZE OF 15 INCHES OR LARGER.
 --- 1.5 TIMES THE MAXIMUM STONE DIAMETER FOR A D50 STONE SIZE OF 15 INCHES OR LESS.

MATERIALS
 - RIPRAP
 --- HARD, ANGULAR, HIGHLY WEATHER RESISTANT.
 --- SPECIFIC GRAVITY OF AT LEAST 2.5.
 --- SIZE AND GRADATION THAT WILL WITHSTAND VELOCITIES OF STORM WATER DISCHARGE FLOW DESIGN.
 --- WELL-GRADED MIXTURE OF STONE WITH 50 PERCENT OF THE STONE PIECES, BY WEIGHT, LARGER THAN THE D50 SIZE AND THE DIAMETER OF THE LARGEST STONE EQUAL TO 1.5 TIMES THE D50 SIZE.
 - GEOTEXTILE FABRIC OR WELL-GRADED AGGREGATE (INDOT COARSE AGGREGATE NUMBER 9, 11, OR 12).

INSTALLATION
 1. DIVERT SURFACE WATER RUNOFF AROUND THE STRUCTURE DURING CONSTRUCTION SO THAT THE SITE CAN BE PROPERLY DETERMINED FOR FOUNDATION PREPARATION.
 2. EXCAVATE FOUNDATION AND APRON AREA SUBGRADE BELOW DESIGN ELEVATION TO ALLOW FOR THIS THICKNESS OF FILTER MEDIUM AND RIPRAP.
 3. COMPACT ANY FILL USED IN SUBGRADE SURROUNDING UNDISTURBED SOIL MATERIAL.
 4. SMOOTH SUBGRADE ENOUGH TO PROTECT GEOTEXTILE FABRIC FROM TEARING.
 5. PLACE GEOTEXTILE FABRIC OR AGGREGATE BEDDING MATERIAL (FOR STABILIZATION AND FILTRATION) ON THE COMPACTED AND SMOOTHED FOUNDATION.
 6. INSTALL RIPRAP TO THE LINES AND ELEVATIONS SHOWN IN THE CONSTRUCTION PLANS. BLEND RIPRAP SMOOTHLY TO SURROUNDING GRADE. IF THE CHANNEL IS WELL DEFINED, EXTEND THE APRON ACROSS THE CHANNEL BOTTOM AND UP THE CHANNEL BANKS TO AN ELEVATION OF SIX INCHES ABOVE THE MAXIMUM TALL WATER DEPTH OR THE TOP OF THE BANK, WHICHEVER IS LESS.
 7. IF GEOTEXTILE FABRIC TEARS WHEN PLACING RIPRAP, REPAIR IMMEDIATELY BY LAYING AND STAPLING A PIECE OF FABRIC OVER DAMAGED AREA, OVERLAPPING THE UNDAIMAGED AREAS BY AT LEAST 12 INCHES.
 8. CONSTRUCT A SMALL PLUNGE POOL WITHIN THE OUTLET APRON. (RIPRAP APRONS MUST BE LEVEL WITH OR SLIGHTLY LOWER THAN THE RECEIVING CHANNEL AND SHOULD NOT PRODUCE AN OVERFALL OR RESTRICT FLOW OF THE WATER CONVEYANCE STRUCTURE.)

MAINTENANCE
 - CHECK FOR EROSION OR SCOURING AROUND SIDES OF THE APRON; REPAIR IMMEDIATELY.
 - CHECK FOR PIPING OR UNDERCUTTING; REPAIR IMMEDIATELY.
 - INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
 - INSPECT FOR STONE DISPLACEMENT; REPLACE STONES ENSURING PLACEMENT AT FINISHED GRADE.

TABLE 1. SIZING FOR FLOW DISSIPATORS AT CULVERT PIPE OUTLETS

PIPE SIZE	(AT) MEDIAN RIP RAP DIAMETER	(AW) APRON WIDTH*	(AL) APRON LENGTH**
8 IN.	6 IN. MIN.	2 TO 3 FT.	5 TO 7 FT.
12 IN.	6 IN. MIN.	3 TO 4 FT.	6 TO 10 FT.
15 IN.	6 IN. MIN.	4 TO 6 FT.	6 TO 12 FT.
18 IN.	6 IN. MIN.	4 TO 6 FT.	8 TO 16 FT.
21 IN.	6 IN. MIN.	6 TO 8 FT.	8 TO 16 FT.
24 IN.	9 IN. MIN.	6 TO 8 FT.	12 TO 18 FT.
30 IN.	9 IN. MIN.	8 TO 10 FT.	14 TO 20 FT.
36 IN.	9 IN. MIN.	10 TO 12 FT.	16 TO 22 FT.
42 IN.	9 IN. MIN.	12 TO 14 FT.	18 TO 24 FT.
48 IN.	12 IN. MIN.	12 TO 14 FT.	18 TO 26 FT.
54 IN.	12 IN. MIN.	14 TO 16 FT.	22 TO 28 FT.
60 IN.	12 IN. MIN.	15 TO 17 FT.	22 TO 32 FT.
66 IN.	12 IN. MIN.	17 TO 19 FT.	24 TO 36 FT.
72 IN.	12 IN. MIN.	18 TO 20 FT.	26 TO 40 FT.
84 IN.	18 IN. MIN.	21 TO 23 FT.	30 TO 44 FT.

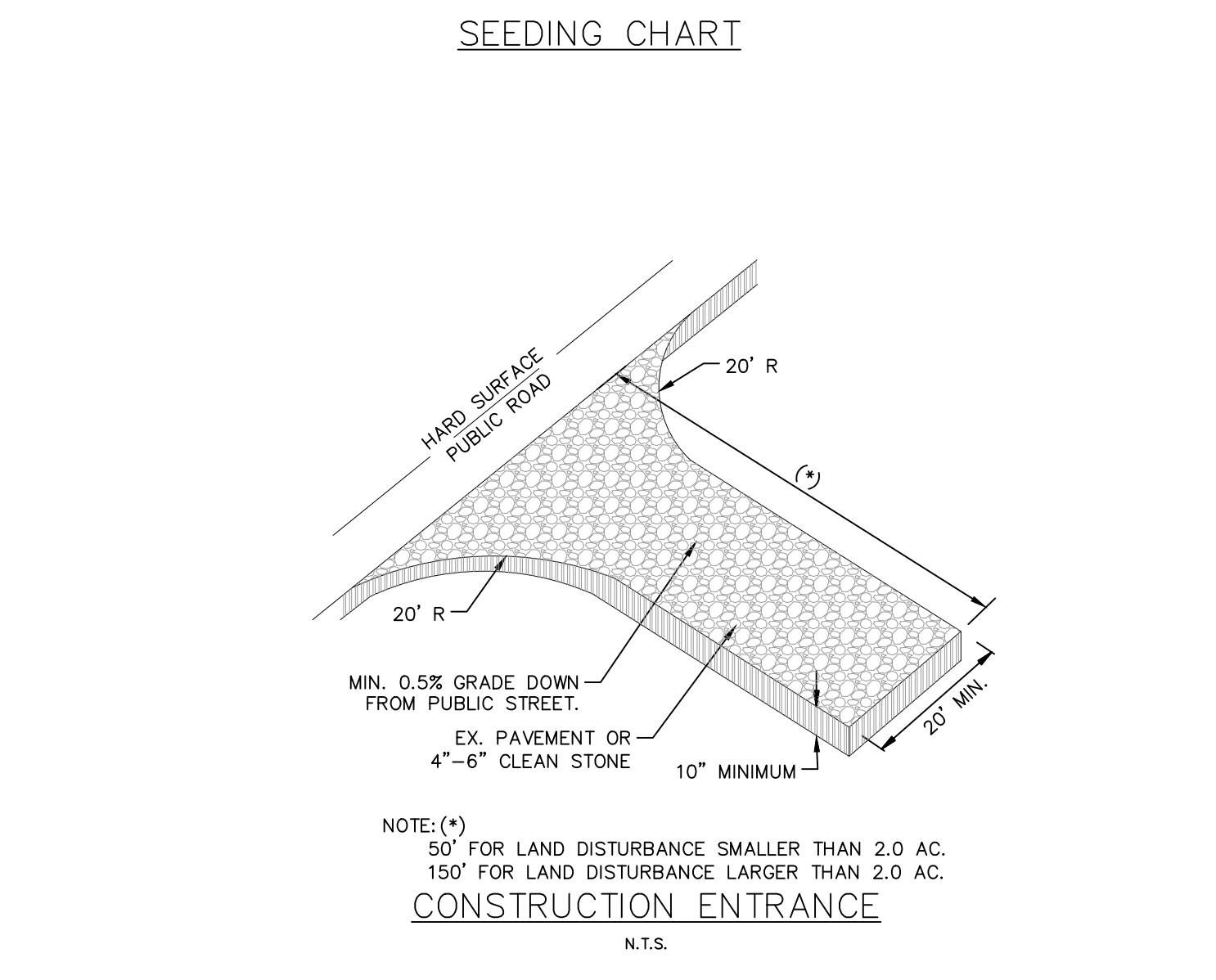
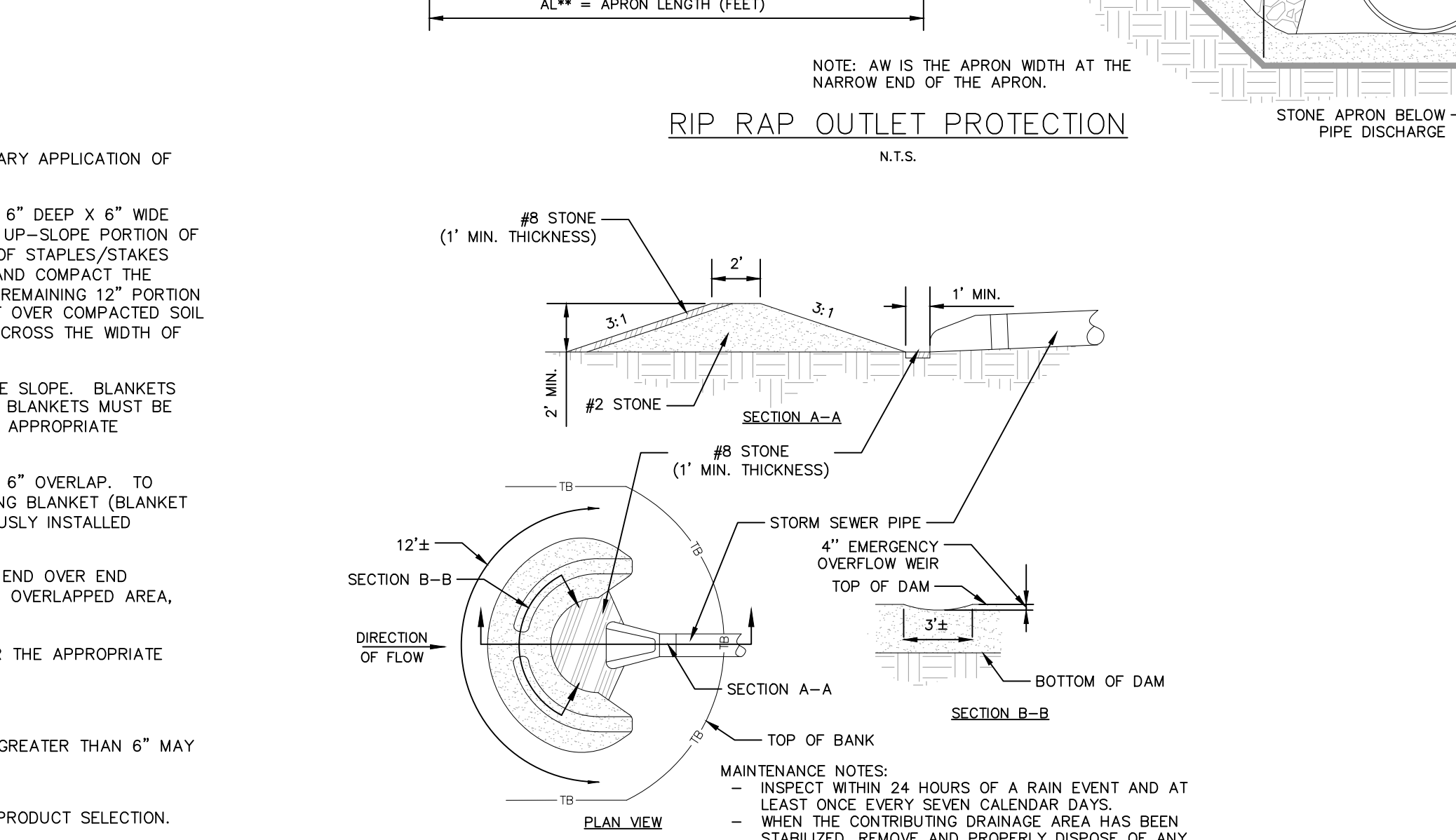
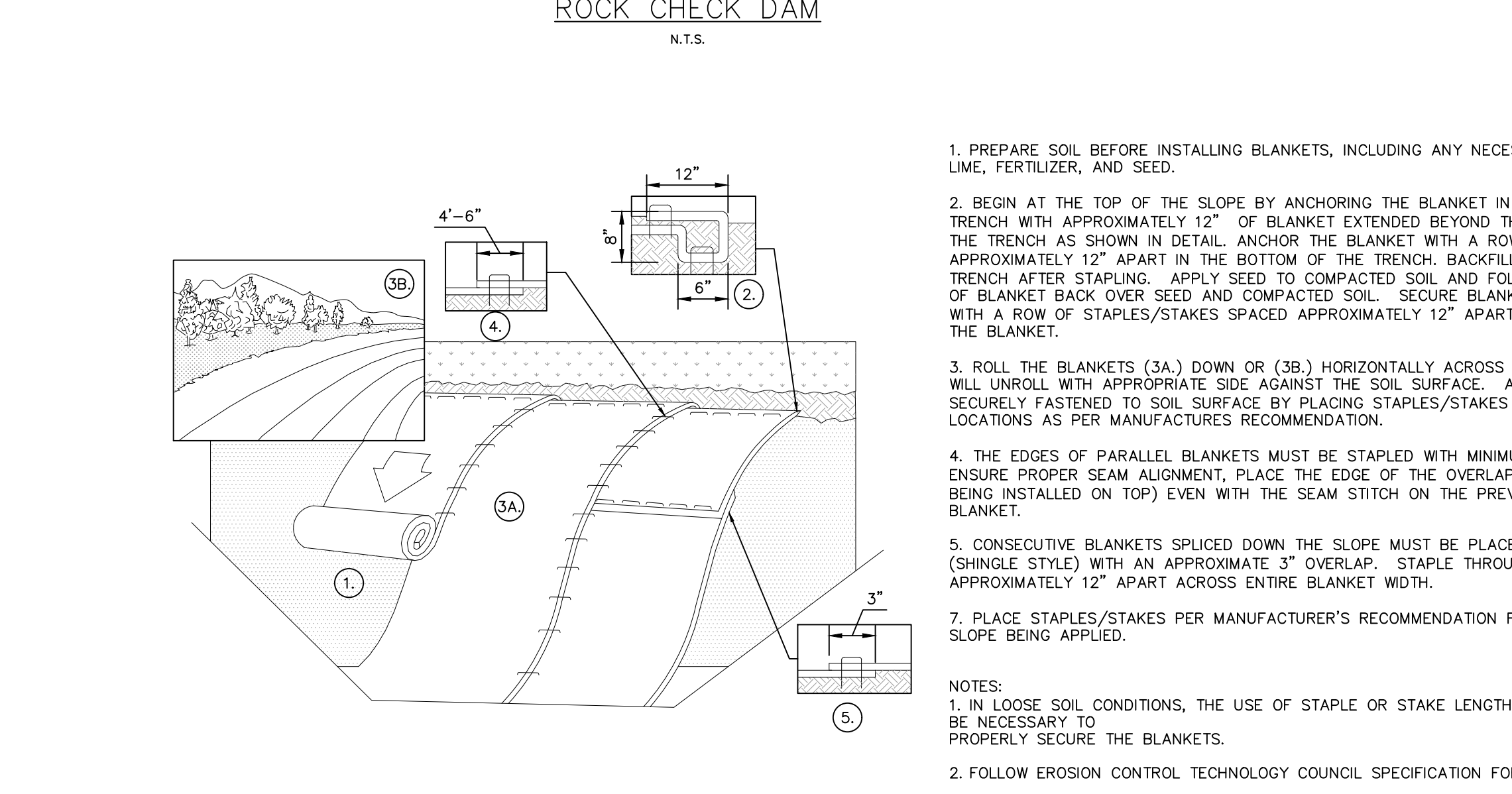
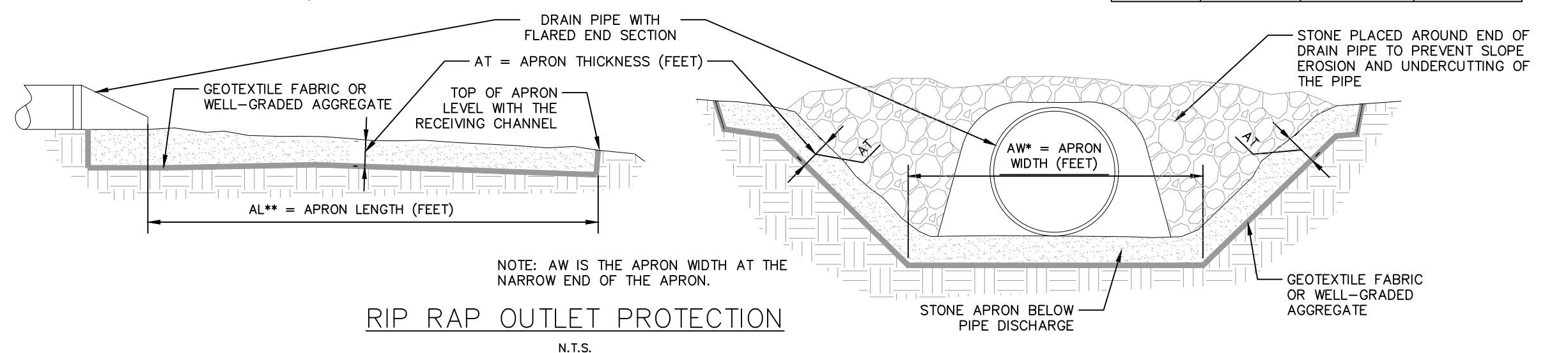
STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A			*		A*				
DORMANT SEEDING	B											B
TEMPORARY SEEDING			C					D				
SODDING				E	**							
MULCHING	F											

A KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE
 D WHEAT OR CEREAL RYE 150 LBS/ACRE
 * IRRIGATION NEEDED DURING JUNE AND AUGUST

B KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE
 E SOD
 ** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD DURING ANY PART OF THE YEAR

C SPRING OATS 100 LBS/ACRE
 F STRAW MULCH 2 TONS/ACRE

SEEDING CHART



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DWG SIZE: 36" x 24"

NOTES:
 1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
 2. FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION.



PROFESSIONAL SEAL
 ANTHONY MICHAEL COOPER
 REGISTERED PROFESSIONAL ENGINEER
 NO. 170509000
 STATE OF INDIANA

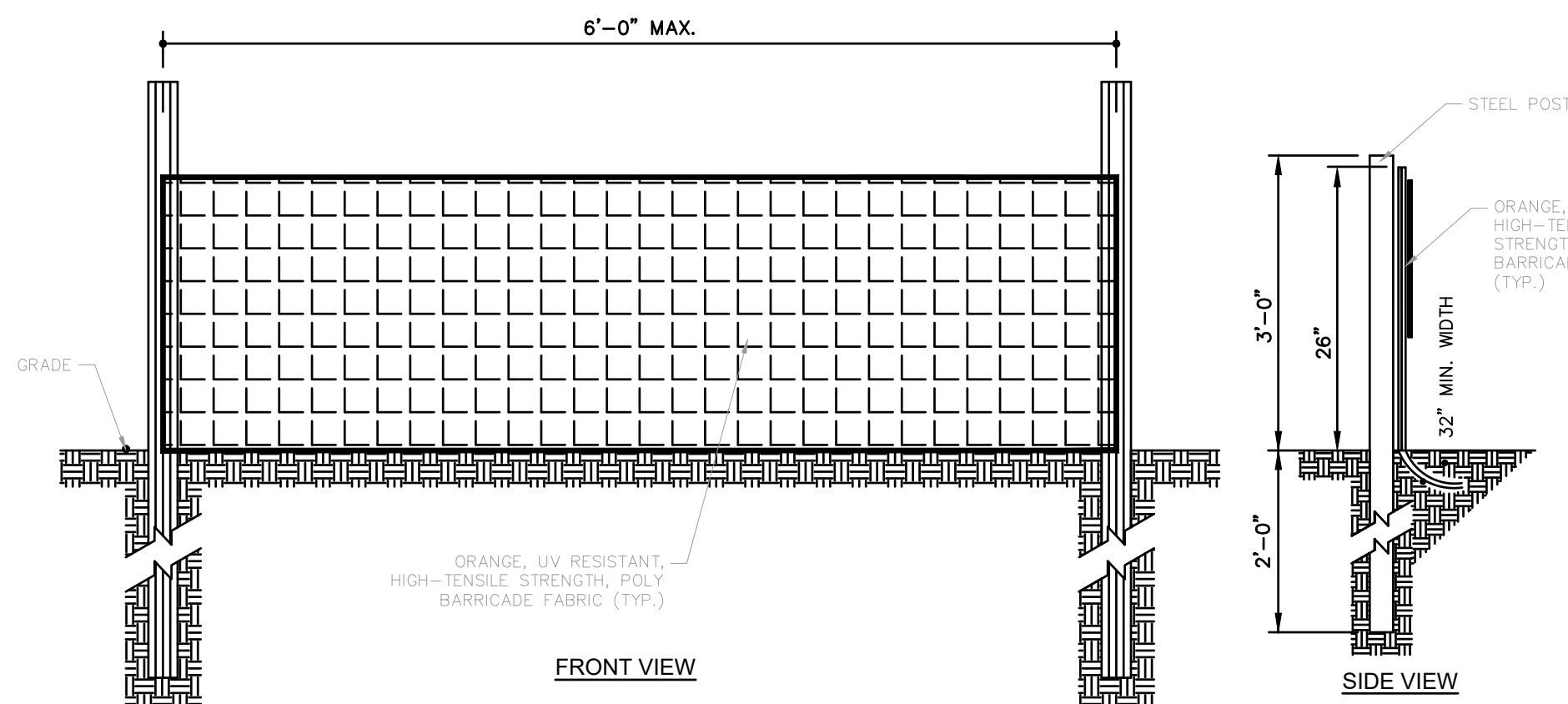
REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
 DATE : 10/10/24

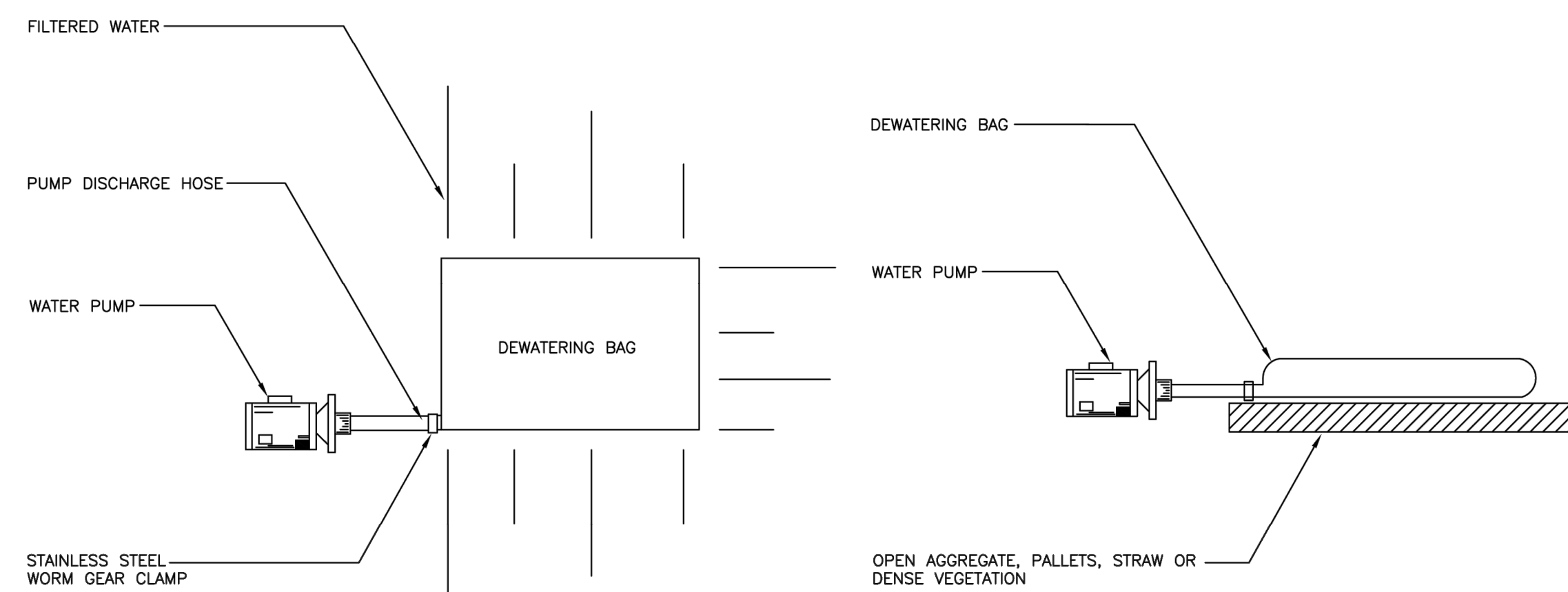
Quad Plus
 Cooper & Associates, LLC
 Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

Malarkey Roofing Products
 MALARKEY,IND FRANKLIN,IN
 PHASE 2 - FINAL BUILDOUT
 EROSION CONTROL DETAILS
 PROJ. NO. 170509000
 DWG. NO. 2321
 SHEET 0

Kimley-Horn
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 500 EAST 96TH STREET, SUITE 300,
 INDIANAPOLIS, IN 46240
 PHONE: 317-218-9560
 WWW.KIMLEY-HORN.COM
 KHA PROJECT # 170509000



SNOW FENCE
N.T.S.



DEWATERING FILTRATION BAG SIZE	MAXIMUM GALLON PER MINUTE CAPACITY
4' x 6'	228
7.5' x 7.5'	534
10' x 10'	950
10' x 15'	1,425
15' x 15'	2,137
15' x 30'	4,275
15' x 65'	9,262

INSTALLATION AND MAINTENANCE GUIDELINES

INSTALLATION: PLACE LIFTING STRAPS (NOT INCLUDED) UNDER THE UNIT TO FACILITATE REMOVAL AFTER USE. UNFOLD D2 DEWATERING BAG ON A STABILIZED AREA OVER DENSE VEGETATION, STRAW OR OTHER COVER. PLACE BAG OVER OPEN GRADED STONE TO ACHIEVE MAXIMUM FILTRATION AND DRAINAGE. INSERT DISCHARGE HOSE FROM PUMP INTO D2 DEWATERING BAG A MINIMUM OF SIX INCHES AND TIGHTLY SECURE WITH STAINLESS STEEL WORM GEAR CLAMP TO PREVENT WATER FROM FLOWING OUT OF THE UNIT WITHOUT BEING FILTERED. MAINTENANCE: REPLACE THE UNIT WHEN 1/2 FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE OF THE PUMP DISCHARGE TO AN IMPRACTICAL RATE.

DISCLAIMER:
D2 LAND & WATER RESOURCE, INC. ASSUMES NO RESPONSIBILITY FOR THE DRAWINGS AND CALCULATIONS IT PROVIDES AS THEY MAY BE INTERPRETED AS A GENERAL INDICATION TO SUGGEST THE PROPER USE OF THE PRODUCTS.

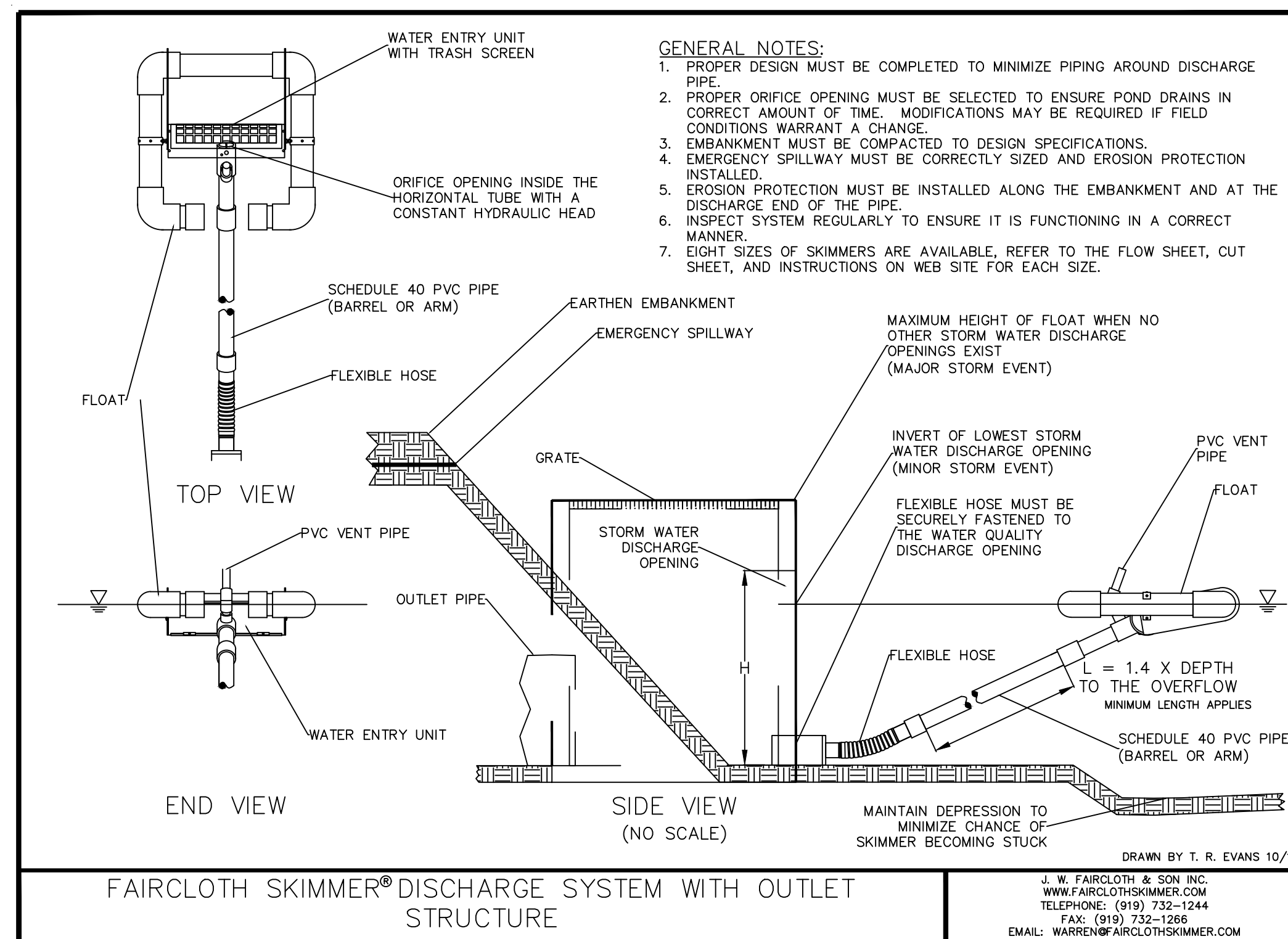


A PRODUCT OF:
D2 LAND & WATER RESOURCE, INC.
2600 BLOYD AVE. PH: (800) 597-2180
INDIANAPOLIS, IN 46218 FAX: (317) 917-2181

DESCRIPTION:
NON-WOVEN DEWATERING BAG STANDARD DETAIL AND SIZING CHART

CLIENT:
DATE ISSUED: 08/26/16
DRAWN BY: JAR
CHK'D BY: JAB
SCALE: N.T.S.

DRAWING NAME:
D2 DEWATERING BAG
DETAIL A01



GENERAL NOTES:

1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

FAIRCLOTH SKIMMER® DISCHARGE SYSTEM WITH OUTLET STRUCTURE

J. W. FAIRCLOTH & SON, INC.
WWW.FAIRCLOTHSKIMMER.COM
TELEPHONE: (919) 732-1244
FAX: (919) 732-1266
EMAIL: WARREN@FAIRCLOTHSKIMMER.COM

PROFESSIONAL SEAL



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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

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KHA PROJECT # 170509000

Malarkey Roofing Products
MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
DWG. NO. 2322
SHEET 0
REV 0

PHASE 2 - FINAL BUILDOUT
EROSION CONTROL DETAILS

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GENERAL PROJECT INFORMATION

SITE NAME
THE AREA SCHEDULED FOR CONSTRUCTION IS KNOWN AS **"MALARKEY IND"** (HEREINAFTER REFERRED TO AS THE "PROJECT").

PROJECT LOCATION
THE PROJECT IS LOCATED IN THE **FRANKLIN, JOHNSON COUNTY, INDIANA.**
ADDRESS: **3540 ESSEX DRIVE, FRANKLIN, IN 46131**
LATITUDE: **39° 31'43.13"N**
LONGITUDE: **86° 3'51.21"W**

OWNER'S INFORMATION
NAME: **MALARKEY ROOFING**
ADDRESS: **2200 ELLIS ROAD NEW LENOX, IL 60451**
REPRESENTATIVE: **DAVE WACHSMUTH**
TELEPHONE: **(503) 283-1191**

DEVELOPER'S INFORMATION
NAME: **COOPER & ASSOCIATES LLC**
ADDRESS: **2200 ELLIS ROAD NEW LENOX, IL 60451**
REPRESENTATIVE: **SANJAY GURAC P.H.D., P.E**
TELEPHONE: **(815) 740-0860**

ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS - SECTION A

A1 INDEX SHOWING LOCATIONS OF REQUIRED PLAN ELEMENTS
REFER TO THE FOLLOWING LIST FOR LOCATIONS OF REQUIRED PLAN ELEMENTS

2000 TITLE SHEET	A2, A5
21XX SERIES EXISTING CONDITIONS AND DEMOLITIONS	A13, A15, A16
22XX SERIES SITE PLAN(S)	A6, A28
23XX SERIES EROSION CONTROL PLAN(S)	A12, A25, A28, A29
24XX SERIES GRADING PLAN(S)	A24, A28
25XX SERIES UTILITY PLAN(S)	A26, A27, A28

A2 VICINITY MAP
REFER TO 2000 THE TITLE SHEET.

A3 PROJECT DESCRIPTION
CONSTRUCTION OF A **+357,600 SF TYPE OF INDUSTRIAL BUILDING ON ±137.98 ACRES.** THE PROJECT IS LOCATED IN SECTION **34** OF T13N, R4E, IN **FRANKLIN, JOHNSON COUNTY, IN.**

A4 LATITUDE AND LONGITUDE
REFER TO **2000 TITLE SHEET** OR REFER TO THE **PROJECT LOCATION ABOVE.**

A5 LEGAL DESCRIPTION OF THE PROJECT SITE
REFER TO 2000 TITLE SHEET.

A6 11"x17" PLAT
REFER TO 22XX SERIES SITE PLAN(S).

A7 100-YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES
THE PROJECT SITE IS LOCATED WITHIN MULTIPLE FIRM PANEL AREAS WHICH ARE PART OF ZONE "X" DEFINED AS AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN. FIRM MAP PANELS **18081C0137D DATED AUGUST 02, 2007, 18081C0139E AND 18081C0143E DATED JANUARY 29, 2021.**

THE PROJECT SITE IS LOCATED IN VARIOUS ZONES AS SHOWN ON THE FIRMETTE ON 2000 TITLE SHEET.

A8 ADJACENT LANDUSE, INCLUDING UPSTREAM WATERSHED

ADJACENT LANDUSE, INCLUDING UPSTREAM WATERSHED

NORTH: **AGRICULTURE**
SOUTH: **INDUSTRIAL**
EAST: **AGRICULTURE**
WEST: **AGRICULTURE AND INDUSTRIAL**

A9 IDENTIFICATION OF U.S. EPA APPROVED OR ESTABLISHED TMDL
THE PROJECT IS **LOCATED WITHIN CANARY DITCH-YOUNGS CREEK (051202040603)** WATERSHED INCLUDED IN THE 303(D) LIST. THE WATER BODY IS IMPAIRED WITH FULL BODY CONTACT BY THE POLLUTANT E. COLI.

A10 IDENTIFICATION OF RECEIVING WATERS
THE PROJECT SITE DISCHARGES **SOUTHWEST** TO REGULATED DRAIN WHICH LTIMELY DISCHARGES INTO CANARY DITCH.

A11 IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303(D) LIST OF IMPAIRED WATERS
THE PROJECT SITE DIRECTLY DISCHARGES INTO **GRAHAM REGULATED DRAIN** WHICH ULTIMATELY DISCHARGES INTO **CANARY DITCH (INW0463, T1007)** WHICH IS INCLUDED IN THE 303(D) LIST.

A12 SOILS MAP INCLUDING SOIL DESCRIPTIONS AND LIMITATIONS
THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) NATURAL RESOURCES CONSERVATION SERVICE (NRCS) WEB SOIL SURVEY OF **JOHNSON COUNTY, INDIANA,** INDICATES THAT **JOHNSON COUNTY, INDIANA,** INDICATES THAT **BROOKSTON SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES (B), CROSBY SILT LOAM, FINE-LOAMY SUBSOIL, 0 TO 2 PERCENT SLOPES (CRA), CROSBY MIAMI SILT LOAM, 2 TO 4 PERCENT SLOPES, ERODED (CSB2), FOX COMPLEX, 6 TO 12 PERCENT SLOPES, ERODED (FXC2), MIAMI SILT LOAM, 2 TO 4 PERCENT SLOPES, ERODED (MMB2) AND CROSBY SILT LOAM, FINE-LOAMY SUBSOIL-URBAN LAND COMPLEX, 0 TO 2 PERCENT SLOPES (YCLA)** SOILS ARE THE PREDOMINANT SOILS WITHIN THE PROJECT SITE. CONTRACTOR TO FOLLOW GEOELECTICAL ENGINEER'S RECOMMENDATIONS FOR SOIL REMEDIATION AS REQUIRED. REFER TO SHEET 2000 - TITLE SHEET FOR SOILS MAP.

A13 LOCATION AND NAME OF ALL WETLANDS, LAKES AND WATER COURSES ON AND ADJACENT TO THE PROJECT SITE
EXISTING WETLANDS **DO** EXIST WITHIN THE PROJECT SITE. THE IDENTIFIED AREA WILL BE PROTECTED AND LEFT UNDISTURBED.

A14 STATE / FEDERAL WATER QUALITY PERMITS
ADDITIONAL STATE / FEDERAL PERMITS **ARE NOT** REQUIRED FOR THIS PROJECT.

A15 IDENTIFICATION OF EXISTING VEGETATIVE COVER
THE PROJECT SITE IS **PREDOMINATELY UNDEVELOPED.**

A16 EXISTING SITE TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS
THE EXISTING TOPOGRAPHY WITHIN THE PROJECT SITE IS SHOWN ON THE 21XX EXISTING CONDITIONS AND DEMOLITION PLAN(S).

A17 LOCATIONS WHERE RUNOFF ENTERS THE PROJECT SITE
SIGNIFICANT OFFSITE RUNOFF AREA ENTERS THE PROJECT SITE FROM THE **NORTH VIA AN EXISTING 12" CULTURED UNDER PAUL HAND BLVD.**

A18 SPECIFIC POINTS WHERE EXISTING STORMWATER DISCHARGE WILL LEAVE THE PROJECT SITE
IN THE EXISTING CONDITION, THE SITE DRAINS **SOUTHWEST TO AN UNNAMED TRIBUTARY WHICH DRAINS INTO GRAHAM REGULATED DRAIN.**

A19 LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE
REFER TO THE 21XX EXISTING CONDITIONS AND DEMOLITION PLAN(S) FOR LOCATIONS OF EXISTING STRUCTURES.

A20 EXISTING PERMANENT RETENTION OR DETENTION FACILITIES

AT COMPLETION OF THE PREVIOUS MASS GRADING PHASE, THERE WILL BE A TOTAL OF THREE, INNERCONNECTED DETENTION FACILITIES TO THE EAST OF THE PROJECT SITE.

A21 IDENTIFICATION OF POTENTIAL DISCHARGES TO GROUND WATER
RUNOFF **WILL NOT** BE DISCHARGED TO GROUND WATER.

A22 PROJECT AREA
137.98± ACRES

A23 EXPECTED LAND DISTURBANCE AREA
137.98± ACRES

A24 PROPOSED FINAL TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS
THE PROPOSED TOPOGRAPHY WITHIN THE PROJECT SITE IS SHOWN ON 24XX SERIES GRADINGS AND DRAINAGE PLAN(S).

A25 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS
REFER TO 23XX SERIES EROSION CONTROL PLAN(S) FOR APPROXIMATE LIMITS OF DISTURBANCE.

A26 LOCATIONS, SIZE AND DIMENSIONS OF PROPOSED STORMWATER SYSTEMS
REFER TO 25XX SERIES UTILITY PLAN(S) AND PROFILE SHEET(S) FOR INFORMATION ON THE PROPOSED STORM SEWER SYSTEM.

A27 SPECIFIC POINTS WHERE PROPOSED STORMWATER DISCHARGE WILL LEAVE THE PROJECT SITE
STORMWATER RUNOFF FOR THE PROPOSED **357,300 SF STRUCTURE** WILL DRAIN VIA SHEET AND SHALL LOW CONCENTRATED FLOW INTO STORM STRUCTURES WHERE IT WILL BE CONVEYED TO THE PROPOSED **DETENTION PONDS ON THE EAST AND SOUTH** SIDE OF THE SITE. THE **DETENTION POND** WILL DISCHARGE TO THE **SOUTHWEST TO GRAHAM DITCH.**

A28 LOCATION OF ALL LOTS AND PROPOSED SITE IMPROVEMENTS
REFER TO 22XX SERIES SITE PLAN(S).

A29 LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL AREAS
PROPOSED STOCKPILE LOCATIONS ARE SHOWN ON 23XX SERIES EROSION CONTROL PLAN(S).

A30 CONSTRUCTION SUPPORT ACTIVITIES
REFER TO 23XX SERIES EROSION CONTROL PLAN(S) FOR THE LOCATIONS OF ALL CONSTRUCTION SUPPORT ACTIVITIES ASSOCIATED WITH THIS PROJECT INCLUDING THE STAGING AREA, DEBRIS DUMPSTER, PORT-O-LET, CONCRETE WASHOUT, NO SIGN, AND CONSTRUCTION ENTRANCE.

A31 LOCATION OF IN-STREAM ACTIVITIES
THIS PROJECT **DOES** INCLUDES WORK WITHIN A STREAM WITH THE PROPOSED OUTFALL CONNECTING INTO GRAHAM REGULATED DRAIN.

SWPPP - CONSTRUCTION - SECTION B

B1 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES
THE FOLLOWING POTENTIAL POLLUTANT SOURCES MAY BE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AT THE PROJECT SITE:

B2 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS (AT ALL POINTS OF INGRESS AND EGRESS)
REFER TO 23XX SERIES EROSION CONTROL PLAN(S) FOR THE PROPOSED LOCATION OF THE CONSTRUCTION ENTRANCE(S). ENTRANCE(S) SHALL BE INSTALLED PRIOR TO ANY SITE WORK.

B3 TEMPORARY AND PERMANENT SURFACE STABILIZATION SPECIFICATIONS
TEMPORARY SURFACE STABILIZATION
1. TEMPORARY SEEDING
1.1. TEMPORARY SEEDING IS THE PLANTING OF FAST-GROWING GRASSES TO HOLD DOWN THE SOILS IN DISTURBED AREAS SO THAT THEY ARE LESS LIKELY TO BE CARRIED OFFSITE BY STORMWATER RUNOFF OR WIND. WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY CEASES ON ANY PARTICULAR AREA, ALL DISTURBED GROUND WHERE THERE WILL NOT BE CONSTRUCTION FOR LONGER THAN 7 DAYS MUST BE SEEDDED WITH FAST-GERMINATING TEMPORARY SEED AND PROTECT WITH MULCH. IN THE EVENT OF SNOW COVER, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE THEREAFTER. REFER TO PLANTING PLAN OR SEED CHART FOR RECOMMENDED SEED MIXTURE.
1.2. ANNUAL RYEGRASS SHALL BE USED FROM MARCH THROUGH NOVEMBER. MIXTURE SHALL BE APPLIED AT THE RATE OF 40 LB/ACRE.
1.3. SPRING MIX SHALL BE USED FROM MARCH THROUGH MAY. THIS MIXTURE SHALL BE APPLIED AT THE RATE OF 150 LB/ACRE. THIS MIX SHALL CONSIST OF OATS.
1.4. FALL MIX SHALL BE USED FROM SEPTEMBER THROUGH NOVEMBER. THIS MIXTURE SHALL BE APPLIED AT A RATE OF 150 LB/ACRE. THIS MIX SHALL CONSIST OF WINTER WHEAT.
PERMANENT SURFACE STABILIZATION
THE PURPOSE OF SOIL STABILIZATION IS TO PREVENT SOIL FROM LEAVING THE SITE. IN THE NATURAL CONDITION, SOIL IS STABILIZED BY NATIVE VEGETATION. HOWEVER, HIS PRIMARY TECHNIQUE TO BE USED AT THIS SITE FOR STABILIZING SITE SOIL WILL BE TO PROVIDE A PROTECTIVE COVER OF TURF GRASS, PAVEMENT, OR BUILDING.

1. STEPS IN INSTALLING AND MAINTAINING PERMANENT SURFACE STABILIZATION MEASURES.
1.1. SOIL PREPARATION - LOOSEN SOIL TO A DEPTH OF 6 INCHES. IF SOIL AMENDMENTS / FERTILIZERS ARE REQUIRED, APPLY AT MANUFACTURERS RECOMMENDED APPLICATION RATE
1.2. FERTILIZER FOR LAWNS - PROVIDE A FAST-RELEASE FERTILIZER FOR LAWN APPLICATIONS.
1.3. FERTILIZER FOR TREES / SHRUBS - PROVIDE A SLOW-RELEASE GRANULAR FERTILIZER FOR TREE / SHRUB APPLICATIONS.
1.4. REMOVE TRASH, DEBRIS, STONES LARGER THAN 1 INCH IN DIAMETER, AND OTHER OBJECTS THAT MAY INTERFERE WITH PLANT ESTABLISHMENT. FINE GRADE SOIL SURFACE TO A SMOOTH FINISH, APPLY SEED USING A SPREADER OR SEEDING MACHINE AND DO NOT SEED WHEN WIND VELOCITIES ARE IN EXCESS OF 5 MPH. WHEN SOWING, APPLY IN TWO DIRECTIONS THAT ARE PERPENDICULAR TO EACH OTHER.
1.5. RAKE SEED LIGHTLY INTO THE TOP 1/8 INCH OF SOIL. ROLL LIGHTLY, AND WATER WITH A FINE SPRAY.
1.6. PROTECT FRESHLY SOWN SEED BY INSTALLING A LAYER OF CLEAN, SEED-FREE STRAW MULCH UNIFORMLY TO PROVIDE A BLANKET NOT LESS THAN 1 1/2 INCHES THICK.
1.7. GENTLY WATER AREA TO KEEP STRAW MOIST UNTIL THE SEEDS HAVE ESTABLISHED.

B4 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS

DIVERSION SWALES, EROSION CONTROL BLANKET, ROCK DONUTS AND CHECK DAMS, AND TEMPORARY SEDIMENT BASINS WILL BE USED TO CONTROL SEDIMENT IN CONCENTRATED FLOW AREAS. SEE EROSION CONTROL PLAN SHEETS FOR LOCATIONS OF THESE MEASURES. EROSION CONTROL MEASURES ARE TO BE INSPECTED AFTER EVERY MAJOR RAINFALL EVENT TOTALING 1/2" OF RAIN OR MORE AND A MINIMUM OF ONCE A WEEK.

WATER REMOVED FROM TRAPS, BASINS, AND OTHER HOLDING DEPRESSIONS OR EXCAVATIONS MUST FIRST PASS THROUGH A SEDIMENT CONTROL AND/OR FILTRATION DEVICE. WHEN DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION.

SILT FENCES AND STRAW BALES ARE NOT AN ACCEPTABLE MEASURES FOR CONCENTRATED FLOW PROTECTION.

B5 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS

REFER TO 23XX SERIES EROSION CONTROL PLAN(S) FOR SHEET FLOW AREAS TO BE PROTECTED BY SEEDING, MULCHING, SILT FENCE OR HYDROSEEDING. IF CONCENTRATED FLOW IS EXPERIENCED DUE TO INTERIM GRADING DURING CONSTRUCTION, CONTRACTOR SHALL UTILIZE EROSION CONTROL BLANKETS AND ROCK DONUTS AT INLET LOCATIONS TO SLOW RUNOFF AND REDUCE THE POTENTIAL FOR EROSION AND SEDIMENTATION.

B6 RUNOFF CONTROL MEASURES
REFER TO 23XX SERIES EROSION CONTROL PLAN(S) FOR RUNOFF CONTROL MEASURES.

B7 STORM WATER OUTLET PROTECTION SPECIFICATIONS
PERMANENT RIP RAP WILL BE PROVIDED AT THE PROPOSED STORM WATER OUTLETS AS SHOWN ON 23XX SERIES EROSION CONTROL PLAN(S).

B8 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS
RIP RAP AND TEMPORARY EROSION CONTROL BLANKET WILL BE UTILIZED TO PREVENT GRADE DESTABILIZATION. REFER TO 23XX SERIES EROSION CONTROL PLAN(S) AND EROSION CONTROL DETAILS FOR LOCATIONS.

B9 DEWATERING APPLICATIONS AND MANAGEMENT METHODS
IF THE DETENTION BASIN(S) ARE EXCAVATED PRIOR TO THE INSTALLATION OF THE STORMWATER OUTFALL PIPES, CONTRACTOR SHALL DEWATER BASIN(S) AS NECESSARY BY ROUTING FLOW THROUGH FILTER BAGS AND DISCHARGING TO THE GROUND SURFACE. CONTRACTOR SHALL MONITOR FLOW PATH DOWN TO OUTFALL TO ENSURE EROSION DOES NOT OCCUR.

B10 MEASURES UTILIZED FOR WORK WITHIN WATERBODIES
NO WORK IS BEING PROPOSED WITHIN ANY WATERBODIES.

B11 MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE
INSPECTION SCHEDULE / REPORTING

1. ALL DISTURBED AREAS WITHIN THE PROJECT SITE, INCLUDING ALL EROSION AND SEDIMENT CONTROL DEVICES, SHALL BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT TOTALING 1/2" OF RAIN OR MORE.
2. INSPECTIONS AND WRITTEN REPORTS SHALL BE PREPARED BY A QUALIFIED PERSON WHO IS FAMILIAR WITH THIS SWPPP, THE PROJECT, AND THE EPA NPDES STORM WATER GENERAL PERMIT. PAPER COPIES OF INSPECTIONS SHALL BE KEPT ON-SITE FOR INSPECTION BY LOCAL AND STATE OFFICIALS.
3. INSPECTION REPORTS SHALL INCLUDE:
3.1. TYPE OF INSPECTION
3.2. FIELD OBSERVATIONS
3.3. ACTIONS TAKEN AS A RESULT OF INSPECTION RESULTS
3.4. OVERALL ASSESSMENT OF SWPPP COMPLIANCE
3.5. THE CONTRACTOR SHALL KEEP A COPY OF THE REPORTS ONSITE AND PERMANENTLY FOR A PERIOD OF 2 YEARS FOLLOWING CONSTRUCTION.
4. CONSTRUCTION ENTRANCE
4.1. VERIFY ADEQUATE STONE COVERAGE
4.2. VERIFY CONSTRUCTION ACTIVITIES ARE NOT TRACKING SITE SOIL OUT ONTO ADJACENT ROADWAYS
5. CONCRETE WASHOUT
5.1. INSPECT DAILY AS WASHOUT CONTAINERS ARE BEING USED AND AFTER EACH STORM EVENT.
5.2. INSPECT THE SYSTEM FOR LEAKS OR SPILLS. DISCONTINUE USE IF UNITS ARE OVERFLOWING OR LEAKING. IMMEDIATELY INSTALLED "CLOSED" SIGN, COVER AND PUMP FLUIDS TO ADDITIONAL CONTAINERS OR REMOVE FROM THE SITE FOR PROPER DISPOSAL FOR TREATMENT OR REUSE AT THE CONCRETE PLANT.
5.3. MAINTAIN ALL WEATHER ACCESS TO THE CONTAINMENT FACILITY TO MINIMIZE TRACKING.
5.4. INSPECT THE WATERPROOF LINING FOR FAILURE, INCLUDING TEARS AND PUNCTURES OR SLIDE DOWN FROM CONTAINMENT STRUCTURE WALLS.
5.5. WHEN CONTAINMENTS REACH 75 PERCENT OF CAPACITY OR ACCORDING TO THE CONTAINMENT FILL LEVEL REQUIREMENTS, DISCONTINUE USE WITH SIGNAGE IDENTIFYING "CLOSED", AND INSTALL OR BRING IN ADDITIONAL CONTAINMENTS PRIOR TO CREATING ADDITIONAL CEMENTITIOUS WASHWATER.
6. MATERIAL STORAGE
6.1. VERIFY MATERIAL STORAGE AREAS ARE PROTECTED FROM RAINFALL
6.2. VERIFY FLOOD IS NOT LEAKING FROM THE AREA
6.3. OFFSITE STORAGE AREAS ARE TO BE CONSIDERED PART OF THE PROJECT
7. SOIL STABILIZATION
7.1. VERIFY THAT SEEDED AREAS EXHIBIT HEALTHY PLANT ESTABLISHMENT
7.2. THE SITE HAS ACHIEVED FINAL STABILIZATION ONCE ALL AREAS ARE EITHER COVERED BY PAVEMENT OR HAVE REACHED 70% OF THE VEGETATION DENSITY. THIS VEGETATION DENSITY MUST BE MAINTAINED IN ORDER TO REMAIN CATEGORIZED AS FINAL STABILIZATION. MEASURES MUST BE TAKEN TO REACH THIS LEVEL. IF STANDARD PROCEDURES DO NOT YIELD ADEQUATE PLANT ESTABLISHMENT.
8. EROSION AND SEDIMENT CONTROL INSPECTIONS - THE FOLLOWING IS A LIST OF INSPECTION / MAINTENANCE PRACTICES THAT SHOULD BE CONDUCTED FOR EACH CONTROL MEASURE:
9. GEOTEXTILES/EROSION CONTROL MATS - MISSING / LOOSE MATS SHALL BE REPLACED AND REINSTALLED PER MANUFACTURERS RECOMMENDATION.
9.1. INLET PROTECTION - INLET PROTECTION MEASURES SHALL BE ROUTINELY INSPECTED AND ACCUMULATED SEDIMENT SHALL BE REMOVED TO ENSURE PROPER OPERATION.
9.2. DIVERSION SWALES - REMOVE ACCUMULATED DEBRIS THAT REDUCES THE HYDRAULIC CAPACITY OF THE SWALE.
9.3. MULCHING - APPLY ADDITIONAL MULCH TO SPARSE OR BARE SPOTS.
9.4. SEDIMENT TRAP - REMOVE ACCUMULATED SEDIMENT TO ENSURE PROPER OPERATION.
9.5. SEDIMENT BASIN - REMOVE ACCUMULATED SEDIMENT TO ENSURE PROPER OPERATION.
9.6. SILT FENCE - REMOVE ACCUMULATED SEDIMENT THAT POSES A THREAT TO THE STABILITY OF THE FENCE (4 FEET OF FENCE)
9.7. CONSTRUCTION ENTRANCE - REDRESS ENTRANCE WITH ADDITIONAL STONE PERIODICALLY TO MAINTAIN FUNCTIONALITY.
9.8. VEGETATION - ENSURE NEWLY SEEDDED AREAS ARE PROTECTED FROM EROSION.
9.9. GOOD HOUSEKEEPING - VERIFY THAT LITTER, MISCELLANEOUS CONSTRUCTION DEBRIS, CONSTRUCTION RELATED CHEMICALS, AND OTHER POTENTIALLY HARMFUL MATERIALS ARE PROPERLY STORED, COVERED, AND/OR DO NOT HAVE THE POTENTIAL TO ENTER THE STORM SEWER SYSTEM.
10. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, DOWNSTREAM SEDIMENT MUST BE REMOVED IMMEDIATELY TO REDUCE THE RISK OF ADVERSE IMPACTS.
11. BASED ON THE ACTUAL CONDITIONS OBSERVED ONSITE, ANY NECESSARY MODIFICATIONS TO THE PROJECT SWPPP SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS OF THE INSPECTION. ALL MODIFICATIONS TO THE SWPPP SHALL

BE RECORDED BY THE CONTRACTOR AND SHALL BE PROVIDED UPON REQUEST.
12. IT IS THE OPERATOR'S SOLE RESPONSIBILITY TO ENSURE THE EROSION AND SEDIMENT CONTROL MEASURES ONSITE ARE SUFFICIENT TO MEET THE REQUIREMENTS OF THE EPA NPDES STORM WATER DISCHARGE PERMIT. IF ADDITIONAL MEASURES ARE REQUIRED, THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING SUCH MEASURES.
NOTICE OF TERMINATION (NOT)
13. COMPLIANCE WITH THE GENERAL CONSTRUCTION PERMIT IS THE RESPONSIBILITY OF THE OPERATOR / PERMITTEE WHO SUBMITTED THE NOI UNTIL A NOTICE OF TERMINATION (NOT) HAS BEEN PROCESSED. THE PERMITTEE'S AUTHORIZATION TO DISCHARGE UNDER THE GENERAL CONSTRUCTION PERMIT TERMINATES AT MIDNIGHT OF THE DAY THE NOI IS SIGNED
14. ALL PERMITTEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER ONE OR MORE OF THE FOLLOWING CONDITIONS HAVE BEEN MET:
14.1. FINAL STABILIZATION HAS BEEN ACHIEVED ONSITE
14.2. ANOTHER OPERATOR / PERMITTEE HAS ASSUMED CONTROL OVER THE AREAS OF THE SITE THAT HAVE YET TO ACHIEVE FINAL STABILIZATION
14.3. 13.3. IN RESIDENTIAL CONSTRUCTION OPERATIONS, TEMPORARY STABILIZATION HAS BEEN COMPLETED AND THE RESIDENCE HAS BEEN TRANSFERRED TO THE HOMEOWNER.

B12 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND DISTURBING ACTIVITIES

1. FILE THE CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) WITH IDEM AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION.
2. INSTALL CONSTRUCTION ENTRANCE.
3. INSTALL SILT FENCE AND INLET PROTECTION AT INLETS.
4. POST NO SIGN AT ENTRANCE.
5. DESIGNATE A PERSON TO BE RESPONSIBLE FOR SITE INSPECTIONS AFTER EACH RAINFALL AND A MINIMUM OF 1 TIME PER WEEK.
6. INSTALL STAGING AREA, FUELING STATION, MATERIAL STORAGE AREA, CONCRETE WASHOUT, AND PORT-O-LET.
7. STRIP TOPSOIL AND STOCKPILE.
8. REMOVE PAVEMENT AND OTHER ITEMS SHOWN TO BE DEMOLISHED.
9. ROUGH GRADE THE PROJECT SITE. SEED DISTURBED AREAS IMMEDIATELY FOLLOWING ROUGH GRADING. AREAS THAT WILL NOT BE DISTURBED AGAIN SHOULD BE PERMANENTLY SEEDDED. NO UN-VEGETATED AREAS SHALL BE LEFT UNSEED FOR MORE THAN 7 DAYS. TEMPORARY OR PERMANENT STABILIZATION METHODS MUST BE INITIATED BY END OF THE SEVENTH DAY THAT AN AREA HAS BEEN IDLE AND COMPLETED WITHIN 14 DAYS.
10. BEGIN SITE CONSTRUCTION.
11. INSTALL UNDERGROUND UTILITIES. EROSION CONTROL MEASURES SHALL BE INSTALLED AT NEW DRAIN INLET LOCATIONS IMMEDIATELY UPON INSTALLATION.
12. FINAL GRADE THE SITE.
13. PAVING OPERATIONS. EROSION CONTROL MEASURES SHALL BE LEFT IN-PLACE UNTIL THE SITE VEGETATION HAS ESTABLISHED.
14. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AT THE CONCLUSION OF THE PROJECT AS DIRECTED BY THE COUNTY AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT.
15. LEAVE PERMANENT EROSION CONTROL MEASURES IN PLACE.

NOTE: THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION OF ANY ADDITIONAL CONSTRUCTION METHODS THAT WOULD BE NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

B13 EROSION & SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS

THE ENTIRE PROJECT SITE IS UNDER THE SAME OWNER, THERE ARE NOT ANY INDIVIDUAL BUILDING LOTS.

B14 MATERIAL HANDLING AND SPILL PREVENTION PLAN

1. SOIL TRACKING
1.1. CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE SITE AT THE STABILIZED CONSTRUCTION ENTRANCE. A WHEEL WASH SHALL BE USED BY THE CONTRACTOR IF REQUESTED BY THE MUNICIPALITY. PRIOR TO LEAVING THE SITE, THE PURPOSE IS TO TRAP DUST AND MUD THAT WOULD OTHERWISE BE CARRIED OFF-SITE BY CONSTRUCTION TRAFFIC. ALL DIRT TRACKED OUT PUBLIC AND PRIVATE STREETS SHALL BE CLEANED BY THE END OF DAY AT A MINIMUM.
2. DUST CONTROL
2.1. WATER TRUCKS WILL BE USED AS NEEDED DURING CONSTRUCTION TO REDUCE DUST GENERATED ON THE SITE. DUST CONTROL MUST BE PROVIDED BY THE GENERAL CONTRACTOR TO A DEGREE THAT IS IN COMPLIANCE WITH APPLICABLE LOCAL AND STATE DUST CONTROL REGULATIONS. AFTER CONSTRUCTION, THE SITE WILL BE STABILIZED (AS DESCRIBED ELSEWHERE), WHICH WILL REDUCE THE POTENTIAL FOR DUST GENERATION.
3. WATER SOURCE
3.1. NON-STORMWATER COMPONENTS OF SITE DISCHARGE MUST BE CLEAN WATER. WATER USED FOR CONSTRUCTION, WHICH DISCHARGES FROM THE SITE MUST ORIGINATE FROM A PUBLIC WATER SUPPLY OR PRIVATE WELL APPROVED BY THE STATE HEALTH DEPARTMENT. WATER USED FOR CONSTRUCTION THAT DOES NOT ORIGINATE FROM AN APPROVED PUBLIC SUPPLY MUST NOT DISCHARGE FROM THE SITE. IT CAN BE RETAINED IN THE PONDS UNTIL IT INFILTRATES AND EVAPORATES.
4. CONCRETE WASTE FROM CONCRETE READY-MIX TRUCKS
4.1. DISCHARGE OF EXCESS OR WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS WILL BE ALLOWED ON THE CONSTRUCTION SITE, BUT ONLY IN SPECIFICALLY DESIGNATED DIKED AREAS THAT HAVE BEEN PREPARED TO PREVENT CONTACT BETWEEN THE CONCRETE AND/OR WASH WATER AND STORMWATER THAT WILL BE DISCHARGED FROM THE SITE OR IN LOCATIONS WHERE WASTE CONCRETE CAN BE PLACED INTO FORMS TO MAKE RIPRAP OR OTHER USEFUL CONCRETE PRODUCTS. THE CURED RESIDUE FROM THE CONCRETE WASHOUT DIKED AREAS SHALL BE DISPOSED IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS. THE JOBSITE SUPERINTENDENT IS RESPONSIBLE FOR ASSURING THAT THESE PROCEDURES ARE FOLLOWED.
5. FUEL TANKS
5.1. TEMPORARY ON-SITE FUEL TANKS FOR CONSTRUCTION VEHICLES SHALL MEET ALL STATE AND FEDERAL REGULATIONS. TANKS SHALL HAVE APPROVED SPILL CONTAINMENT WITH THE CAPACITY REQUIRED BY THE APPLICABLE REGULATIONS. THE TANK SHALL BE IN SOUND CONDITION FREE OF RUST OR OTHER DAMAGE WHICH MIGHT COMPROMISE CONTAINMENT. HOSES, VALVES, FITTINGS, CAPS, FILLER NOZZLES, AND ASSOCIATED HARDWARE SHALL BE MAINTAINED IN PROPER WORKING CONDITION AT ALL TIMES.
6. MASONRY WASTES
6.1. CLEANING MASONRY TOOLS AND EQUIPMENT GENERATES A VARIETY OF WASTES. EXCESS CEMENT AND RINSE WATER ARE TWO EXAMPLES. SWEEP STREETS, GUTTERS, ALLEYS, AND SIDEWALKS RATHER THAN HOSING, REUSE AND RECYCLE MATERIALS IF POSSIBLE AND COLLECT AND PROPERLY DISPOSE OF WASTE.
7. SANITARY FACILITIES
7.1. ALL PERSONNEL INVOLVED WITH CONSTRUCTION ACTIVITIES MUST COMPLY WITH STATE AND LOCAL SANITARY OR SEPTIC SYSTEM REGULATIONS. TEMPORARY SANITARY FACILITIES WILL BE PROVIDED AT THE SITE THROUGHOUT THE CONSTRUCTION PHASE. THEY MUST BE UTILIZED BY ALL CONSTRUCTION PERSONNEL AND WILL BE SERVICED BY A COMMERCIAL OPERATOR.
8. DUMPSTERS (LIDS AND LEAKS)
8.1. WHEN WATER ENTERS THE DUMPSTER, IT CAN PICK UP POLLUTANTS FROM THE WASTE AND LEAK OUT AND EVENTUALLY ENTER THE STORM SEWER SYSTEM. TO PREVENT THIS, DUMPSTER LIDS MUST REMAIN CLOSED AT ALL TIMES AND DUMPSTERS MUST BE INSPECTED FOR LEAKS. NEVER PLACE HAZARDOUS WASTES IN A DUMPSTER OR TRASH BIN. DO NOT HOSE OUT THE DUMPSTER INTERIOR OR LOADING DOCKS. APPLY ABSORBENT OVER ANY FLUIDS SPILLED IN THE DUMPSTER. CHECK LOADING AND UNLOADING EQUIPMENT REGULARLY FOR LEAKS.
9. VEHICLE AND EQUIPMENT LEAKS
9.1. VEHICLES AND CONSTRUCTION EQUIPMENT CONTAIN VARIOUS LIQUID POLLUTANTS THAT MAY LEAK AND ENTER THE STORM SEWER SYSTEM. TO PREVENT THIS, LOOK FOR AND REPORT LEAKS ON VEHICLES WHEN FUEL IS TRANSFERRED FROM A FUEL TANK TO A FUEL TANK. COVER STORM DRAINS IN THE VICINITY DURING THE TRANSFER. CLEAN UP SMALL SPILLS WITH ABSORBENT MATERIALS RATHER THAN HOSING DOWN THE AREA. REMOVE THE ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF IN TRASH.
10. EQUIPMENT MAINTENANCE
10.1. EQUIPMENT REQUIRES MAINTENANCE METHODS THAT CAN PRODUCE POLLUTANTS THAT WILL ENTER THE STORM SEWER SYSTEM IF NOT PROPERLY CLEANED. KEEP ACCURATE MAINTENANCE LOGS AND UP TO DATE INVENTORY OF MATERIALS. PERFORM MAINTENANCE IN COVERED, DESIGNATED SERVICE BAYS WHERE SPILLS AND LEAKS CAN BE PROPERLY CONTAINED. RECYCLE SPENT FLUIDS - DO NOT DUMP DOWN THE DRAIN OR IN THE TRASH. AVOID HOSING DOWN WORK AREAS - USE RAGS FOR SMALL SPILLS, A DAMP MOP FOR GENERAL CLEANUP, AND DRY ABSORBENT FOR LARGER SPILLS.
11. CHEMICALS USED IN CONSTRUCTION

11.1. THE CONSTRUCTION PROCESS REQUIRES THE USE OF MANY CHEMICALS INCLUDING PAINT, SOLVENTS, AND FERTILIZERS. IT IS IMPORTANT TO HANDLE THESE CHEMICALS APPROPRIATELY TO PREVENT CONTAMINATION OF THE STORM SEWER SYSTEM. FIT OIL AND CHEMICAL STORAGE CONTAINERS WITH SECONDARY CONTAINMENT STRUCTURES TO CONTAIN SPILLED MATERIALS. IT IS PREFERABLE TO STORE MATERIALS INDOORS BUT IF THERE IS ONLY AN OUTDOOR STORAGE AREA AVAILABLE, KEEP MATERIALS COVERED TO PREVENT RAIN FROM CONTACTING THE MATERIAL. COVER AND/OR CONTAIN STOCKPILES OR RAW MATERIALS (I.E. SALT, SOIL) TO PREVENT POLLUTED STORMWATER RUNOFF.
12. SPILL CLEANUP PROCEDURES
12.1. IF A SPILL OCCURS, NOTIFY THE KEY SPILL RESPONSE PERSONNEL. IF THE MATERIAL IS HAZARDOUS, CONTACT THE LOCAL FIRE DEPARTMENT. NEVER WASH A SPILL INTO THE STORM DRAIN OR LEAVE IT WITHOUT CLEANING IT UP. CONTAIN SPILLS AND BLOCK THE NEARBY STORM DRAIN. CLEAN UP NON-HAZARDOUS SPILLS BY USING A RAG, DAMP CLOTH, OR ABSORBENT MATERIALS.
12.2. IN CASE OF HAZARDOUS MATERIAL SPILLS, CONTACT THE CORRESPONDING AGENCY. THE INDIANA DEPARTMENT OF ENVIRONMENTAL SPILL RESPONSE LINE CAN BE CONTACTED 24 HOURS-A-DAY, 7 DAYS-A-WEEK AT (317) 233-7745, OR CALL 911.

B15 MATERIAL HANDLING AND STORAGE PROCEDURES

CONTRACTOR TO STORE MATERIALS APPROPRIATELY TO PREVENT CONTAMINATION OF STORMWATER RUNOFF. FIT OIL AND CHEMICAL STORAGE CONTAINERS WITH SECONDARY CONTAINMENT STRUCTURES TO CONTAIN SPILLED MATERIALS. IT IS PREFERABLE TO STORE MATERIALS INDOORS BUT IF THERE IS ONLY AN OUTDOOR STORAGE AREA AVAILABLE, KEEP MATERIALS COVERED TO PREVENT RAIN FROM CONTACTING THE MATERIAL. COVER AND/OR CONTAIN STOCKPILES OR RAW MATERIALS (I.E. SALT, SOIL) TO PREVENT POLLUTED STORMWATER RUNOFF. MATERIAL HANDLING AND STORAGE LOCATIONS ARE PROVIDED ON C4.X SERIES EROSION CONTROL PLAN(S).

SWPPP - POST CONSTRUCTION - SECTION C

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE
POTENTIAL POLLUTANTS GENERATED DUE TO THIS PROJECT INCLUDE:
1. LITTER FROM USERS.
2. AUTOMOBILE FLUIDS FROM VEHICLES.

C2 DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER QUALITY MEASURES

PROPOSED WET DETENTION POND:
- **WET DETENTION PONDS DETAIN STORM WATER RUNOFF LONG ENOUGH FOR CONTAMINATED SEDIMENTS TO SETTLE AND REMAIN IN THE POND AND ALLOW THE WATER IN THE POND TO BE DISPLACED BY THE NEXT RAIN EVENT. THE SEDIMENTATION PROCESS REMOVES PARTICULATE, ORGANIC MATTER, AND METALS FROM THE WATER WHILE NUTRIENTS ARE REMOVED THROUGH BIOLOGICAL UPTAKE. BY CAPTURING AND RETAINING RUNOFF, WET PONDS CONTROL BOTH STORM WATER QUALITY AND QUANTITY.**
GOOD HOUSEKEEPING MEASURES:
- **GOOD HOUSEKEEPING MEASURES SUCH AS REGULAR STREET SWEEPING AND, INSTALLATION OF TRASH RECEPTACLES, AND REDUCTION IN FERTILIZER OVERSPRAY CAN BE INCORPORATED BY THE OWNER AND/OR OCCUPANT.**

C3 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE
THE FOLLOWING ITEMS ARE STORMWATER QUALITY MEASURES THAT WILL BE INSTALLED DURING CONSTRUCTION. THESE ITEMS WILL REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETED AND ARE CONSIDERED TO SERVE ON INCIDENTAL FUNCTION AS POST-CONSTRUCTION STORMWATER QUALITY BMPS.

PROPOSED WET DETENTION POND:
- **WET DETENTION PONDS DETAIN STORM WATER RUNOFF LONG ENOUGH FOR CONTAMINATED SEDIMENTS TO SETTLE AND REMAIN IN THE POND AND ALLOW THE WATER IN THE POND TO BE DISPLACED BY THE NEXT RAIN EVENT. THE SEDIMENTATION PROCESS REMOVES PARTICULATE, ORGANIC MATTER, AND METALS FROM THE WATER WHILE NUTRIENTS ARE REMOVED THROUGH BIOLOGICAL UPTAKE. BY CAPTURING AND RETAINING RUNOFF, WET PONDS CONTROL BOTH STORM WATER QUALITY AND QUANTITY.**
GOOD HOUSEKEEPING MEASURES:
- **GOOD HOUSEKEEPING MEASURES SUCH AS REGULAR STREET SWEEPING AND, INSTALLATION OF TRASH RECEPTACLES, AND REDUCTION IN FERTILIZER OVERSPRAY CAN BE INCORPORATED BY THE OWNER AND/OR OCCUPANT.**

C4 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION

WET DETENTION POND:
- **THE PROPOSED WET DETENTION PONDS WILL BE VARYING LENGTHS AND SIZES. ALL POND LOCATIONS CAN BE FOUND ON SHEETS 2301-2320**
DRY DETENTION POND (EXTENDED DRY DETENTION BASIN):
- **THE PROPOSED DRY DETENTION POND WILL BE VARYING LENGTHS AND SIZES. THE POND LOCATION CAN BE FOUND ON THE GRADING AND DRAINAGE PLAN.**

C5 DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST-CONSTRUCTION STORMWATER QUALITY MEASURES
MAINTENANCE REQUIREMENTS FOR THE STORMWATER QUALITY MEASURES WHICH REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETE ARE DESCRIBED BELOW. REFER TO THE BMP OPERATIONS AND MAINTENANCE MANUAL FOR MORE DETAILED MAINTENANCE REQUIREMENTS.
WET DETENTION POND:
- **INSPECT PERIODICALLY AS NEEDED OR AT LEAST EVERY SIX MONTHS. SEDIMENT SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH ALL APPLICABLE LAWS. AREAS THAT SHOW SIGN OF EROSION SHALL BE STABILIZED WITH EROSION CONTROL BLANKET AND/OR SEED AS NECESSARY.**
DETENTION PONDS (WET & DRY):
- **INSPECT PERIODICALLY AS NEEDED OR AT LEAST EVERY SIX MONTHS. SEDIMENT SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH ALL APPLICABLE LAWS. AREAS THAT SHOW SIGN OF EROSION SHALL BE STABILIZED WITH EROSION CONTROL BLANKET AND/OR SEED AS NECESSARY.**

C6 ENTITY RESPONSIBLE FOR OPERATIONS AND MAINTENANCE OF POST CONSTRUCTION STORMWATER MEASURES

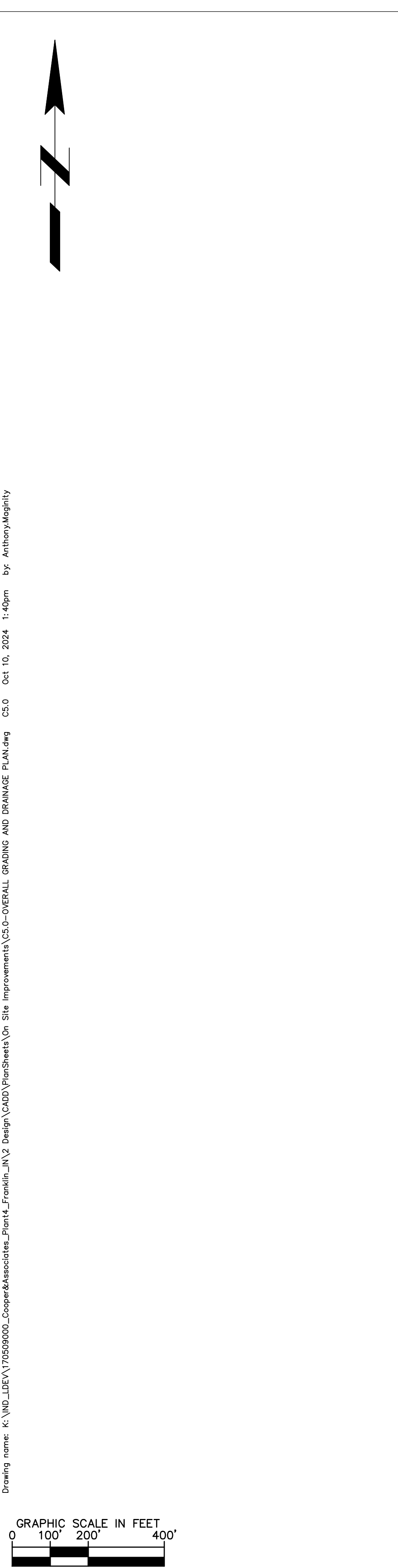
NAME: **SAME AS OWNER**

ADDRESS:

REPRESENTATIVE:

TELEPHONE:

Kimley»Horn
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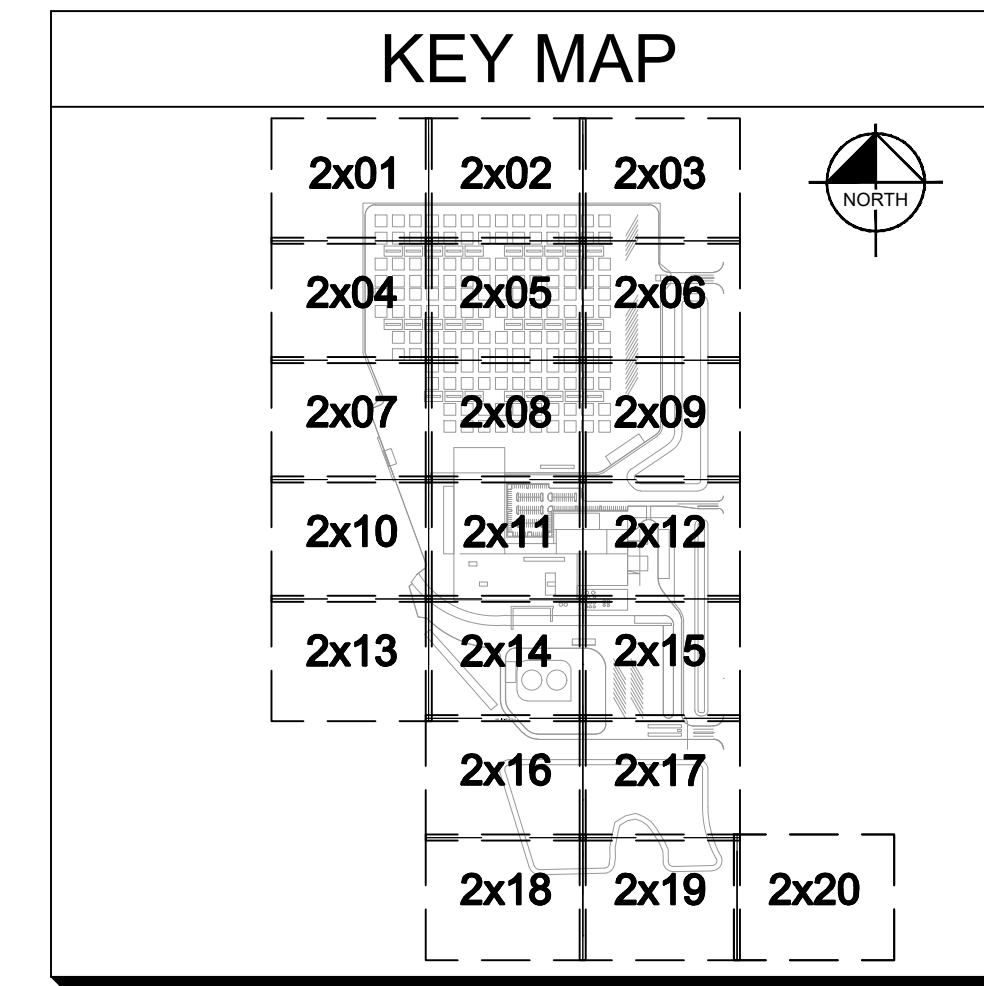


EXISTING LEGEND

○ BOLLARD	○ MISC LID	○ YARD LIGHT
○ CONTROL BENCHMARK	○ MONITOR WELL	○ SANITARY CLEANOUT
○ FLAG POLE	○ GAS MARKER	○ SANITARY MANHOLE
○ MAIL BOX	○ GAS METER	○ VENT PIPE
○ UTILITY POLE	○ GAS VALVE	○ STORM CURB INLET
○ POST	○ AC UNIT	○ STORM INLET
○ SOIL BORING	○ AREA LIGHT	○ STORM ROOF DRAIN
○ HANDICAP SYMBOL	○ ELECTRICAL BOX	○ STORM DRAIN MANHOLE
○ SIGN	○ ELECTRICAL HAND HOLE	○ STORM YARD DRAIN
○ CABLE MANHOLE	○ ELECTRICAL METER	○ FIRE DEPT CONNECTION
○ CABLE PEDESTAL	○ ELECTRICAL MANHOLE	○ FIRE HYDRANT
○ TELEPHONE PEDESTAL	○ ELECTRICAL MARKER	○ IRRIGATION VALVE
○ TELEPHONE HAND HOLE	○ ELECTRICAL TRANSFORMER	○ POST INDICATOR VALVE
○ TELEPHONE MARKER	○ GUY POLE/WIRE	○ WELL
○ TELEPHONE MANHOLE	○ POWER POLE	○ WATER METER
○ FIBER OPTIC MAKER	○ TRAFFIC SIGNAL POLE	○ WATER VALVE
○ SWALE	○ TS	○ TREE / STUMP
○ FENCE LINE	○ TB	○ TOE OF SLOPE
○ SS	○ FIB	○ UNDERGROUND FIBER OPTIC
○ SD	○ OHE	○ OVERHEAD ELECTRICAL
○ W	○ GAS	○ UNDERGROUND GAS
○ TREE LINE	○ TEL	○ UNDERGROUND TELEPHONE

GRADING LEGEND

XXX.XX	FINISHED GRADE SPOT ELEVATION
TC XXX.XX	TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
FL XXX.XX	FLOW LINE SPOT ELEVATION
ME XXX.XX	MATCH EXISTING SPOT ELEVATION
FF XXX.XX	FINISHED FLOOR SPOT ELEVATION
FG XXX.XX	FINISHED GRADE NEAR BUILDING SPOT ELEVATION
TW XXX.XX	TOP OF WALL SPOT ELEVATION
BW XXX.XX	BOTTOM OF WALL SPOT ELEVATION
R XXX.XX	RIM ELEVATION
STR XX	STRUCTURE ID & RIM ELEVATION
STR XX INV XXX.XX	STRUCTURE ID & INVERT ELEVATION
620	PROPOSED CONTOUR
—	RIDGE LINE
X XXX%	SLOPE AND FLOW DIRECTION
←	100-YEAR OVERLAND OVERFLOW ROUTE
←	DETENTION BASIN 100-YEAR EMERGENCY PROPOSED SWALE
—	PROPOSED STORM SEWER
—	PROPOSED STORM STRUCTURES
—	PROPOSED SANITARY MANHOLE
—	PROPOSED STORM/SANITARY CLEANOUT
—	PROPOSED WATER STRUCTURES
—	PROPOSED LIGHT POLES
—	PROPOSED TRANSFORMER PAD



BENCHMARKS

ORIGINATING BENCHMARK: JOHNSON COUNTY BENCHMARK #18 - BRASS DISK AT SOUTHEAST CORNER OF COUNTY ROAD 100 NORTH AND BETTY LANE, LOCATED IN THE SOUTHEAST QUARTER OF SECTION 8, T12N, R5E
 NORTHING= 1547267.68
 EASTING= 237515.676
 ELEVATION=721.00

TEMPORARY BENCHMARKS:
 (LOCATIONS SHOWN ON SURVEY)

TBM #1 CONCRETE NAIL IN NORTH SIDE OF PAUL HAND BOULEVARD NEAR NORTHWEST CORNER OF SURVEY PARCEL
 NORTHING= 1561726.71
 EASTING= 213870.32
 ELEVATION=786.52

TBM #2 CONCRETE NAIL IN NORTH SIDE OF PAUL HAND BOULEVARD NEAR NORTHEAST CORNER OF NORTHEAST QUARTER OF SECTION 34
 NORTHING= 1561777.73
 EASTING= 216053.82
 ELEVATION=788.36

TBM #3 CONCRETE NAIL IN SOUTH SIDE OF PAUL HAND BOULEVARD JUST WEST OF ITS INTERSECTION WITH GRAHAM ROAD
 NORTHING=1561772.48
 EASTING= 217349.78
 ELEVATION=781.20

TBM #4 REBAR SET IN GRASSY KNOLL LOCATED 1080± SOUTH OF PAUL HAND BOULEVARD AND 1355± WEST OF GRAHAM ROAD
 NORTHING=1560687.81
 EASTING=216059.99
 ELEVATION=784.00

TBM #5 MAG NAIL IN EAST SIDE OF GRAHAM ROAD 2005± SOUTH OF ITS INTERSECTION WITH PAUL HAND BOULEVARD
 NORTHING= 1559781.17
 EASTING= 217434.23
 ELEVATION= 776.19

TBM #6 TOP NORTH/NORTHEAST FLANGE BOLT ON FIRE HYDRANT AT NORTH END OF ESSEX DRIVE
 NORTHING=1557689.53
 EASTING=216071.89
 ELEVATION=775.65

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

PROFESSIONAL SEAL

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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY	SCALE: AS NOTED
								DRWN.: VG
								CHKD.: AMM
								APPD.:
								APPD.:
								DATE : 10/10/24

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MALARKEY,IND FRANKLIN,IN

PROJ. NO. 170509000
 DWG. NO. 2400
 SHEET 0
 REV 0

TITLE- PHASE 2 - FINAL BUILDOUT
 OVERALL GRADING AND DRAINAGE PLAN

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GRADING LEGEND

- FINISHED GRADE SPOT ELEVATION
- TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FLOW LINE SPOT ELEVATION
- MATCH EXISTING SPOT ELEVATION
- FINISHED FLOOR SPOT ELEVATION
- FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- BOTTOM OF WALL SPOT ELEVATION
- RIM ELEVATION
- STRUCTURE ID & RIM ELEVATION
- STRUCTURE ID & INVERT ELEVATION
- PROPOSED CONTOUR
- RIDGE LINE
- SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER STRUCTURES
- PROPOSED LIGHT POLES
- PROPOSED TRANSFORMER PAD

GENERAL PLAN NOTES

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 KHA PROJECT # 170509000



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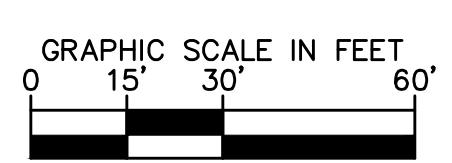
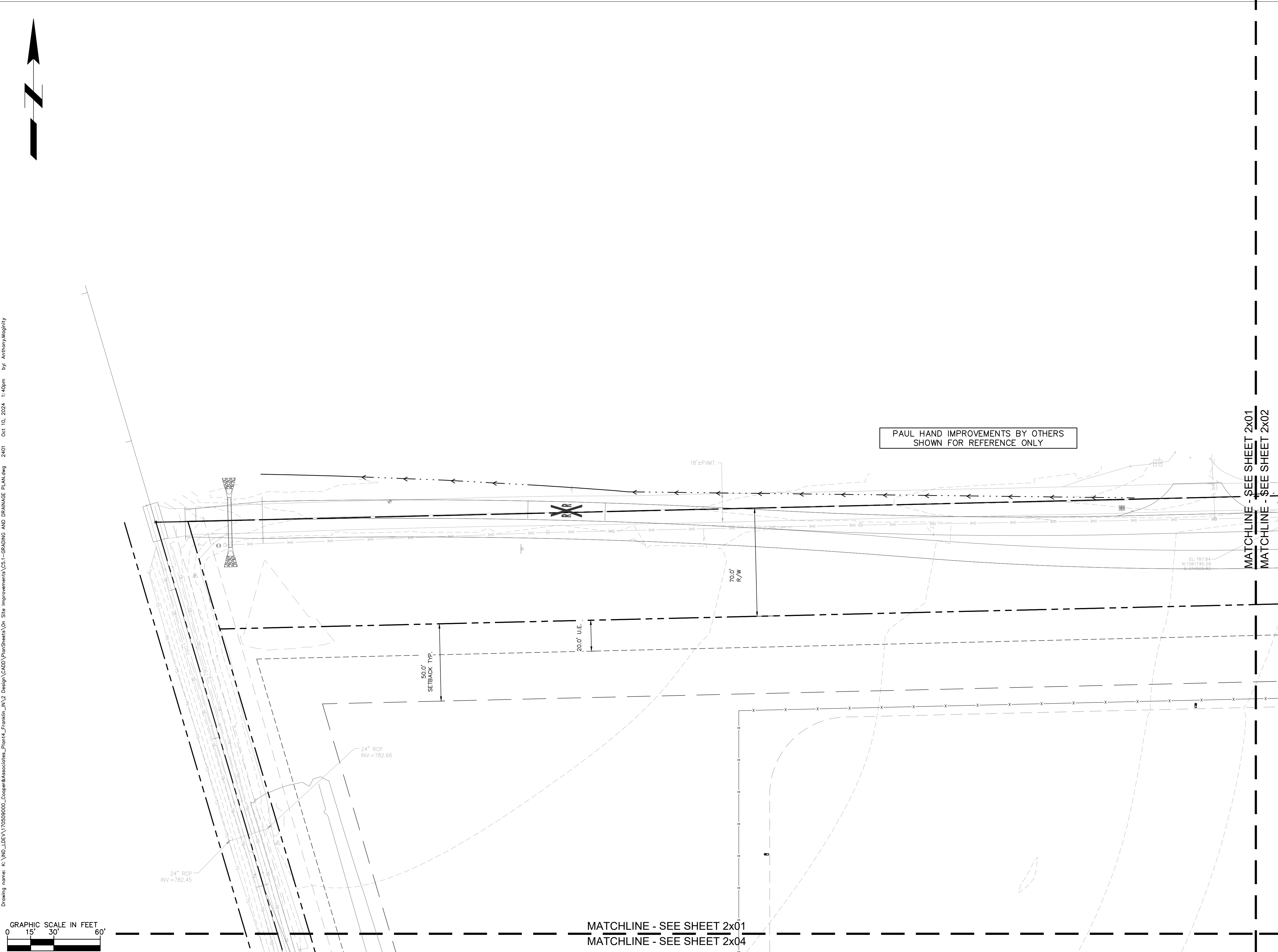
PROJ. NO.
170509000

DWG. NO.
2401

SHEET
 PHASE 2 - FINAL BUILDOUT
 GRADING AND DRAINAGE PLAN

REV
0

PAUL HAND IMPROVEMENTS BY OTHERS
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PROFESSIONAL SEAL

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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

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 Cooper & Associates, LLC

Engineers - Project Managers
 2200 Ellis Road, New Lenox, Illinois, 60451
 Ph. (844) 251-7823 www.quadplus.com

SCALE: AS NOTED
 DRWN.: VG
 CHKD.: AMM
 APPD.:
 APPD.:
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GRADING LEGEND

- FINISHED GRADE SPOT ELEVATION
- TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FLOW LINE SPOT ELEVATION
- MATCH EXISTING SPOT ELEVATION
- FINISHED FLOOR SPOT ELEVATION
- FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- BOTTOM OF WALL SPOT ELEVATION
- RIM ELEVATION
- STRUCTURE ID & RIM ELEVATION
- STRUCTURE ID & INVERT ELEVATION
- PROPOSED CONTOUR
- RIDGE LINE
- SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER STRUCTURES
- PROPOSED LIGHT POLES
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MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

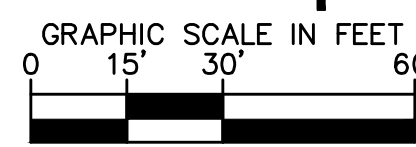
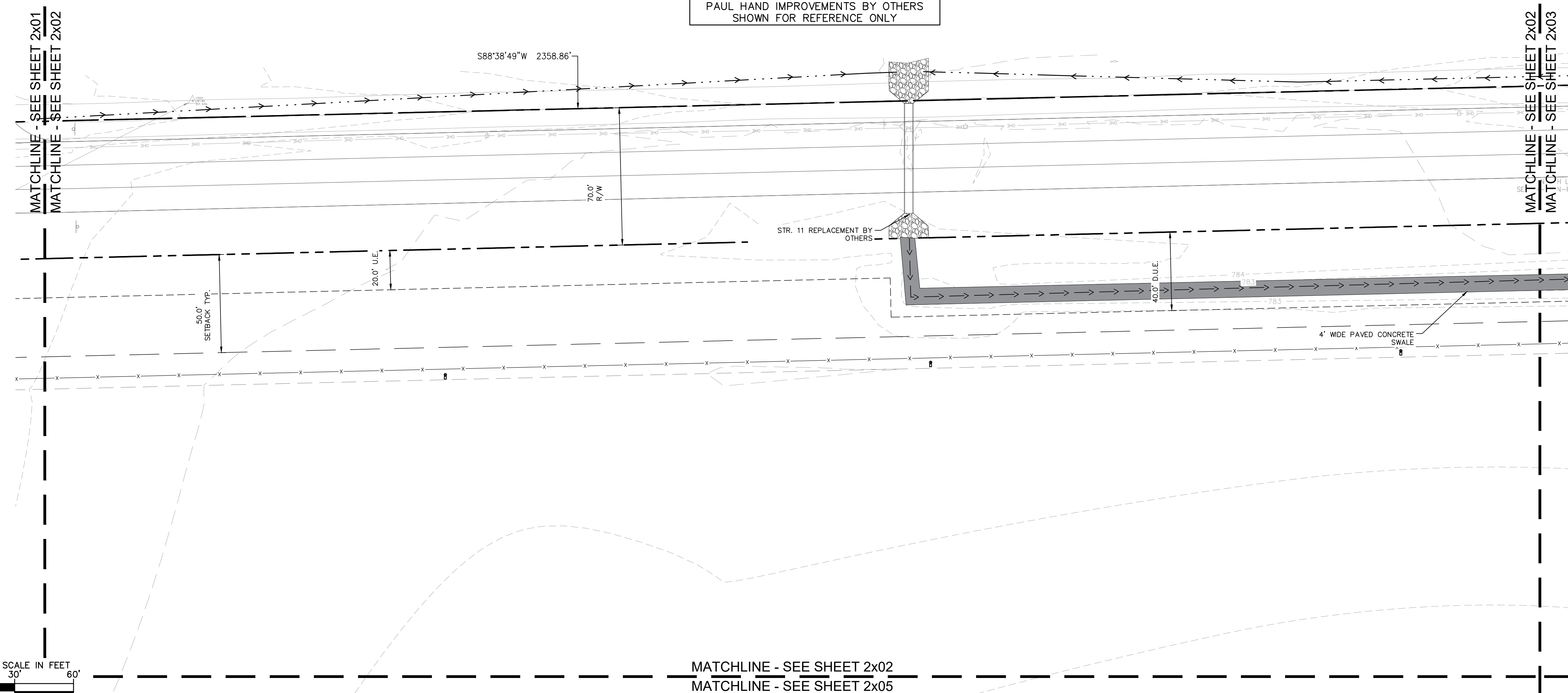
DWG. NO.
2402

TITLE - PHASE 2 - FINAL BUILDOUT
GRADING AND DRAINAGE PLAN

SHEET
REV 0

PAUL HAND BOULEVARD
(C.R. 400 N)

PAUL HAND IMPROVEMENTS BY OTHERS
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MATCHLINE - SEE SHEET 2x02
MATCHLINE - SEE SHEET 2x05

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 DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

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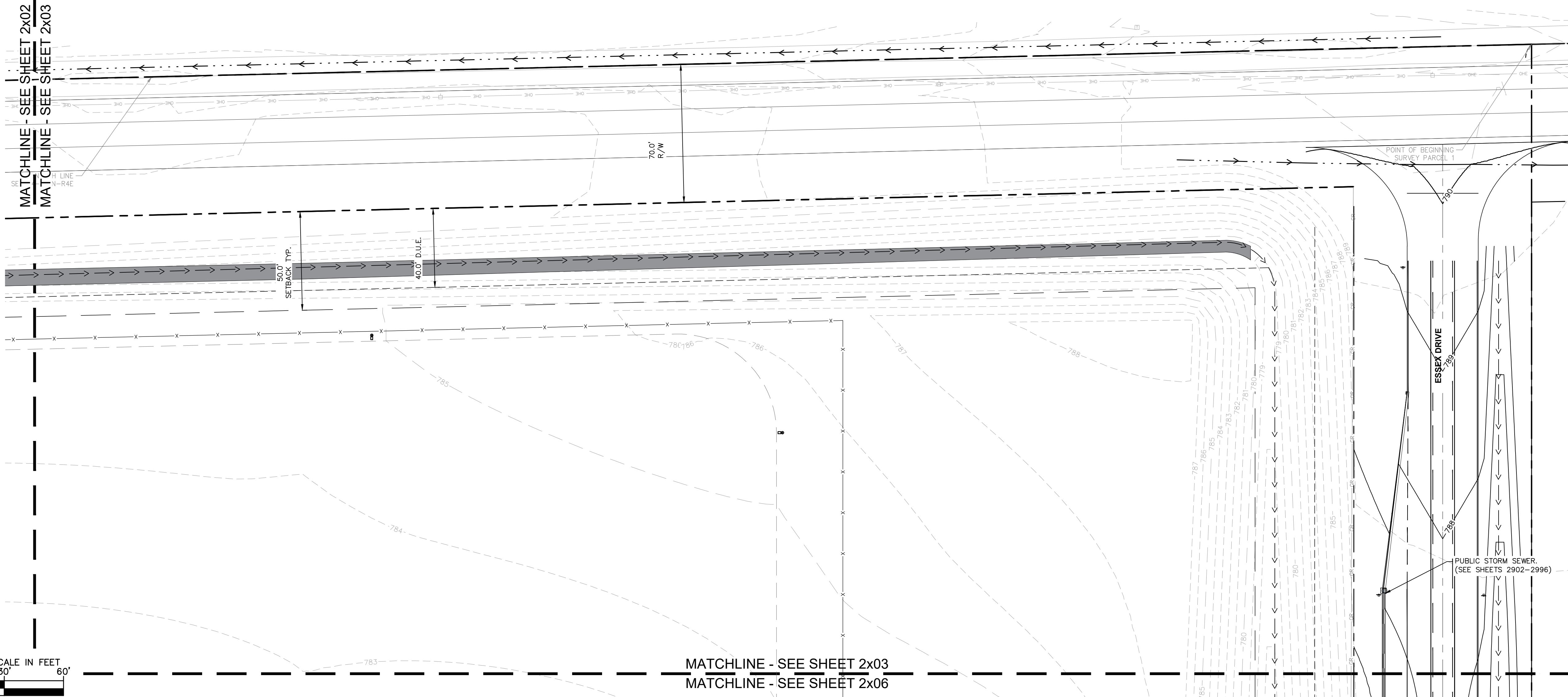


GRADING LEGEND

- FINISHED GRADE SPOT ELEVATION
- TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FLOW LINE SPOT ELEVATION
- MATCH EXISTING SPOT ELEVATION
- FINISHED FLOOR SPOT ELEVATION
- FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- BOTTOM OF WALL SPOT ELEVATION
- RIM ELEVATION
- STRUCTURE ID & RIM ELEVATION
- STRUCTURE ID & INVERT ELEVATION
- PROPOSED CONTOUR
- RIDGE LINE
- SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER STRUCTURES
- PROPOSED LIGHT POLES
- PROPOSED TRANSFORMER PAD

PAUL HAND IMPROVEMENTS BY OTHERS
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MATCHLINE - SEE SHEET 2x02
MATCHLINE - SEE SHEET 2x03



MATCHLINE - SEE SHEET 2x03
MATCHLINE - SEE SHEET 2x06

GENERAL PLAN NOTES

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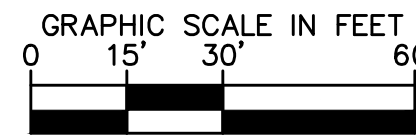
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TITLE- PHASE 2 - FINAL BUILDOUT
GRADING AND DRAINAGE PLAN

PROJ. NO.
170509000
DWG. NO.
2403
SHEET
REV 0



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DWG SIZE: 36" X 24"

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APPD.:
DATE : 10/10/24



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GRADING LEGEND

- FINISHED GRADE SPOT ELEVATION
- TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FLOW LINE SPOT ELEVATION
- MATCH EXISTING SPOT ELEVATION
- FINISHED FLOOR SPOT ELEVATION
- FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- BOTTOM OF WALL SPOT ELEVATION
- RIM ELEVATION
- STRUCTURE ID & RIM ELEVATION
- STRUCTURE ID & INVERT ELEVATION
- PROPOSED CONTOUR
- RIDGE LINE
- SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER STRUCTURES
- PROPOSED LIGHT POLES
- PROPOSED TRANSFORMER PAD

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MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2404

SHEET
 TITLE - PHASE 2 - FINAL BUILDOUT
 GRADING AND DRAINAGE PLAN

REV
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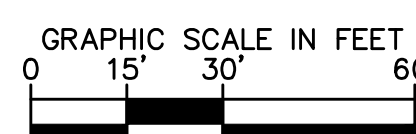
MATCHLINE - SEE SHEET 2x01
 MATCHLINE - SEE SHEET 2x04

APPROXIMATE LOCATION 20
 TELEPHONE EASEMENT
 PER INSTRUMENT NO. 2015-002501

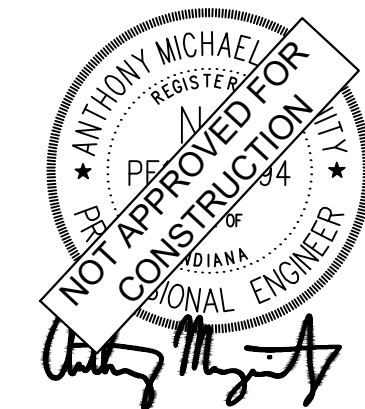
APPARENT 20'
 RAILROAD R/W

MATCHLINE - SEE SHEET 2x04
 MATCHLINE - SEE SHEET 2x07

MATCHLINE - SEE SHEET 2x04
 MATCHLINE - SEE SHEET 2x05



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GRADING LEGEND

- FINISHED GRADE SPOT ELEVATION
- TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FLOW LINE SPOT ELEVATION
- MATCH EXISTING SPOT ELEVATION
- FINISHED FLOOR SPOT ELEVATION
- FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- BOTTOM OF WALL SPOT ELEVATION
- RIM ELEVATION
- STRUCTURE ID & RIM ELEVATION
- STRUCTURE ID & INVERT ELEVATION
- PROPOSED CONTOUR
- RIDGE LINE
- SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
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- PROPOSED LIGHT POLES
- PROPOSED TRANSFORMER PAD

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PROJ. NO.
170509000

DWG. NO.
2405

TITLE - PHASE 2 - FINAL BUILDOUT
 GRADING AND DRAINAGE PLAN

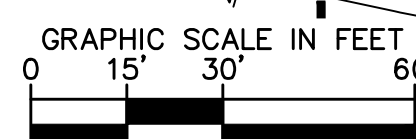
SHEET
REV 0

MATCHLINE - SEE SHEET 2x02
 MATCHLINE - SEE SHEET 2x05

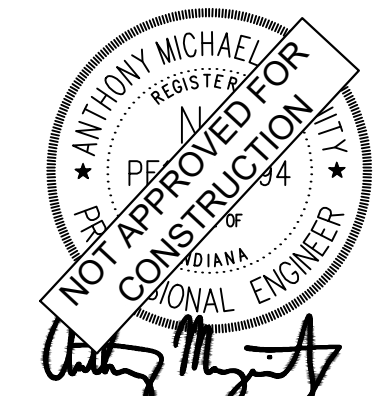
MATCHLINE - SEE SHEET 2x04
 MATCHLINE - SEE SHEET 2x05

MATCHLINE - SEE SHEET 2x05
 MATCHLINE - SEE SHEET 2x06

MATCHLINE - SEE SHEET 2x05
 MATCHLINE - SEE SHEET 2x08



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REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
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 CHKD.: AMM
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 APPD.:
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GRADING LEGEND

- XXX.XX FINISHED GRADE SPOT ELEVATION
- TC XXX.XX TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FL XXX.XX FLOW LINE SPOT ELEVATION
- ME XXX.XX MATCH EXISTING SPOT ELEVATION
- FF XXX.XX FINISHED FLOOR SPOT ELEVATION
- FG XXX.XX FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TW XXX.XX TOP OF WALL SPOT ELEVATION
- BW XXX.XX BOTTOM OF WALL SPOT ELEVATION
- R XXX.XX RIM ELEVATION
- STR XX R XXX.XX STRUCTURE ID & RIM ELEVATION
- STR XX INV XXX.XX STRUCTURE ID & INVERT ELEVATION
- 620 PROPOSED CONTOUR
- RIDGE LINE
- XXX SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
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MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2406

TITLE- PHASE 2 - FINAL BUILDOUT
GRADING AND DRAINAGE PLAN

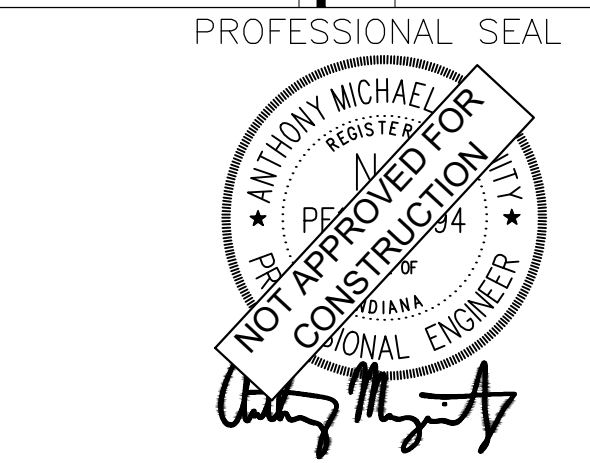
SHEET
REV 0

MATCHLINE - SEE SHEET 2x03
 MATCHLINE - SEE SHEET 2x06

MATCHLINE - SEE SHEET 2x05
 MATCHLINE - SEE SHEET 2x06

MATCHLINE - SEE SHEET 2x06
 MATCHLINE - SEE SHEET 2x09

GRAPHIC SCALE IN FEET
 0 15' 30' 60'



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SCALE: AS NOTED
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GRADING LEGEND

- FINISHED GRADE SPOT ELEVATION
- TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FLOW LINE SPOT ELEVATION
- MATCH EXISTING SPOT ELEVATION
- FINISHED FLOOR SPOT ELEVATION
- FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- BOTTOM OF WALL SPOT ELEVATION
- RIM ELEVATION
- STRUCTURE ID & RIM ELEVATION
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- PROPOSED LIGHT POLES
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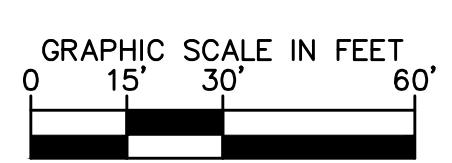
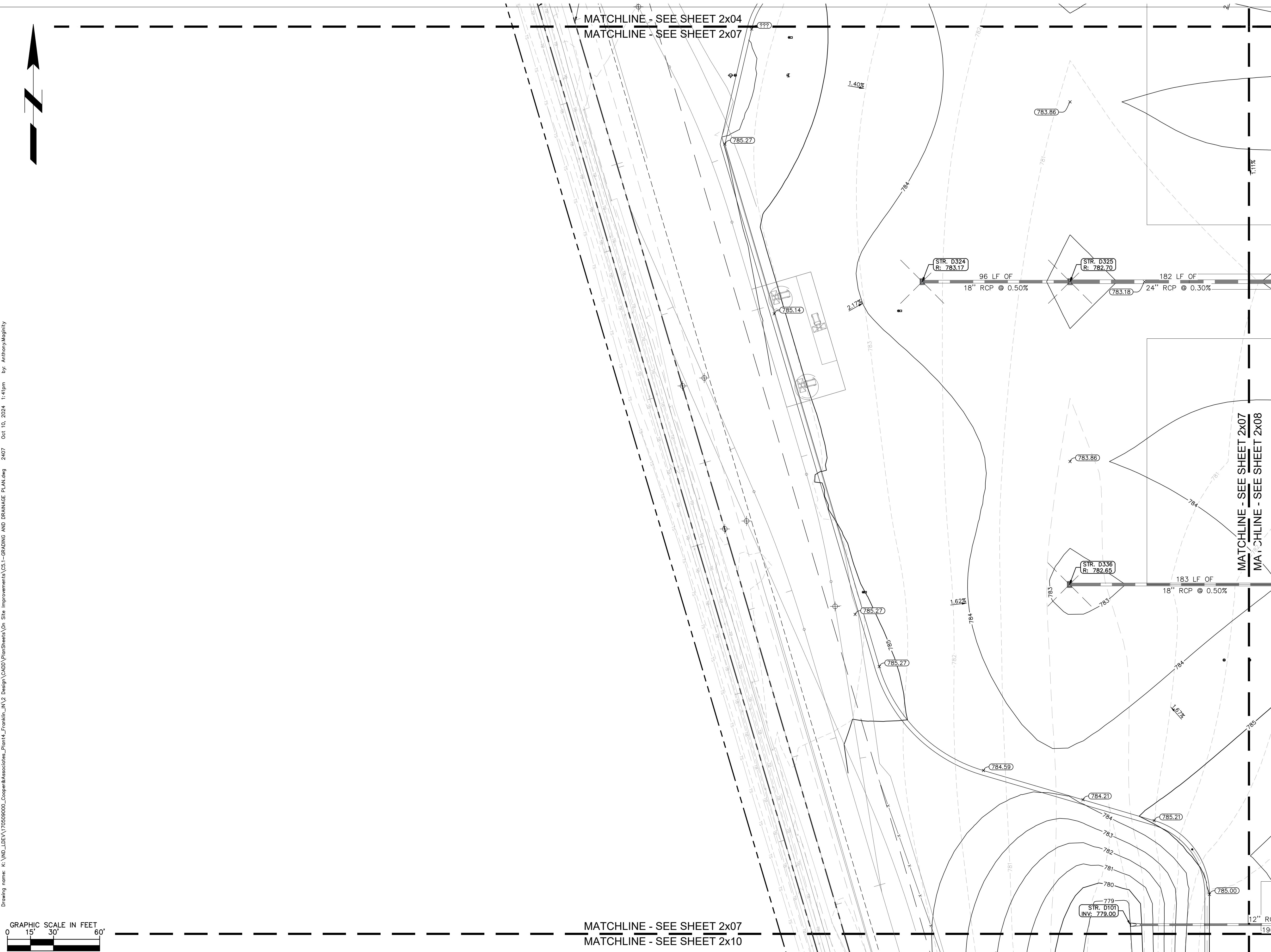
MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2407

TITLE - PHASE 2 - FINAL BUILDOUT
GRADING AND DRAINAGE PLAN

SHEET
REV 0



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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
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GRADING LEGEND

- XXXX.XX FINISHED GRADE SPOT ELEVATION
- TC XXX.XX
BC XXX.XX TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FL XXX.XX FLOW LINE SPOT ELEVATION
- ME XXX.XX MATCH EXISTING SPOT ELEVATION
- FF XXX.XX FINISHED FLOOR SPOT ELEVATION
- FG XXX.XX FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TW XXX.XX TOP OF WALL SPOT ELEVATION
- BW XXX.XX BOTTOM OF WALL SPOT ELEVATION
- R XXX.XX RIM ELEVATION
- STR XX
R XXX.XX STRUCTURE ID & RIM ELEVATION
- STR XX
INV XXX.XX STRUCTURE ID & INVERT ELEVATION
- 620 PROPOSED CONTOUR
- RIDGE LINE
- X.XX% SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY
- PROPOSED SWALE
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER STRUCTURES
- PROPOSED LIGHT POLES
- PROPOSED TRANSFORMER PAD

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)



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500 EAST 96TH STREET, SUITE 300,
INDIANAPOLIS, IN 46240
PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM
KHA PROJECT # 170509000



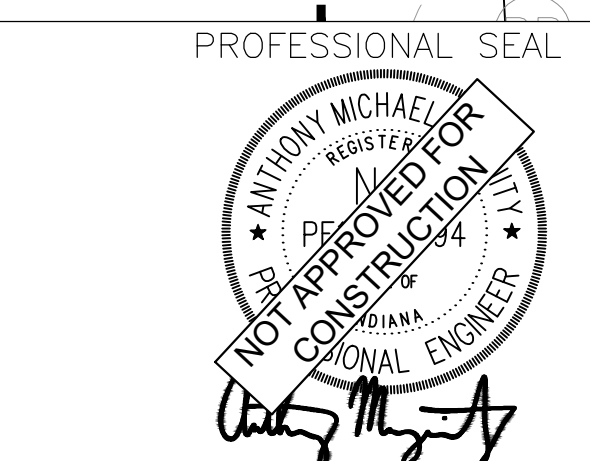
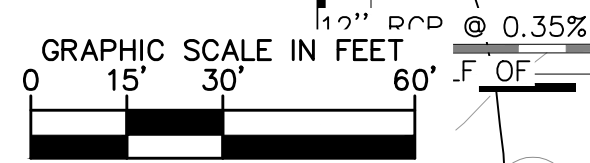
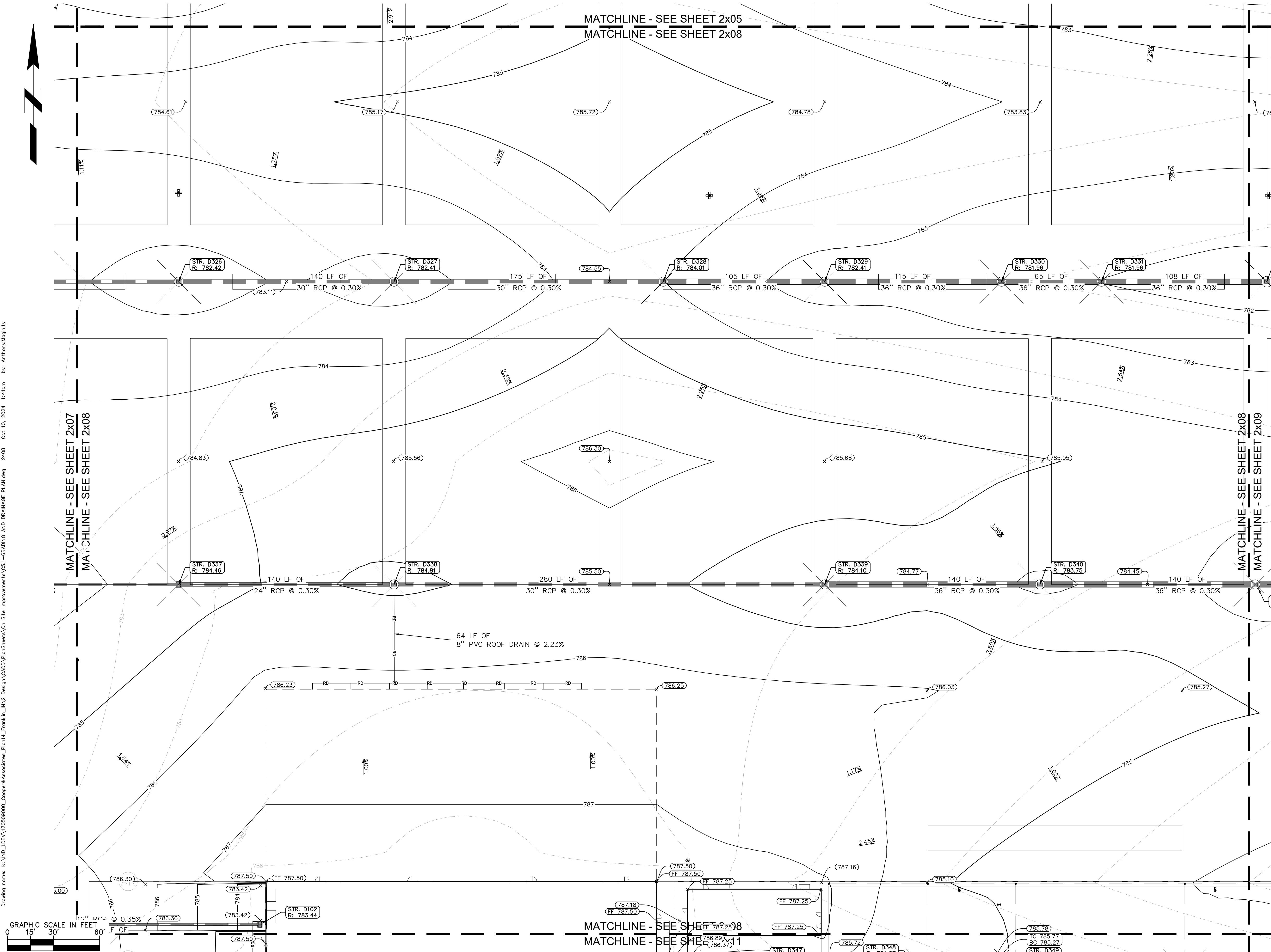
MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2408

SHEET
REV 0

TITLE- PHASE 2 - FINAL BUILDOUT
GRADING AND DRAINAGE PLAN



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DWG SIZE: 36" X 24"

REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY

SCALE: AS NOTED
DRWN.: VG
CHKD.: AMM
APPD.:
APPD.:
DATE : 10/10/24



Engineers - Project Managers
2200 Ellis Road, New Lenox, Illinois, 60451
Ph. (844) 251-7823 www.quadplus.com



GRADING LEGEND

- FINISHED GRADE SPOT ELEVATION
- TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
- FLOW LINE SPOT ELEVATION
- MATCH EXISTING SPOT ELEVATION
- FINISHED FLOOR SPOT ELEVATION
- FINISHED GRADE NEAR BUILDING SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- BOTTOM OF WALL SPOT ELEVATION
- RIM ELEVATION
- STRUCTURE ID & RIM ELEVATION
- STRUCTURE ID & INVERT ELEVATION
- PROPOSED CONTOUR
- RIDGE
- SLOPE AND FLOW DIRECTION
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- DETENTION BASIN 100-YEAR EMERGENCY
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 KHA PROJECT # 170509000



MALARKEY,IND FRANKLIN,IN

PROJ. NO.
170509000

DWG. NO.
2409

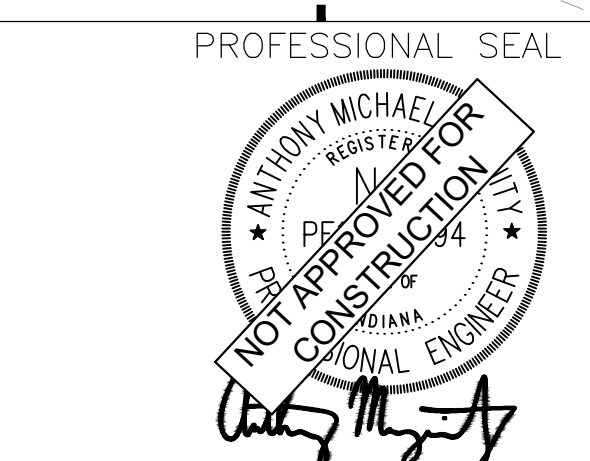
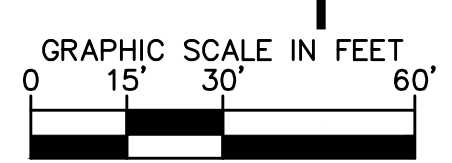
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TITLE- PHASE 2 - FINAL BUILDOUT
GRADING AND DRAINAGE PLAN



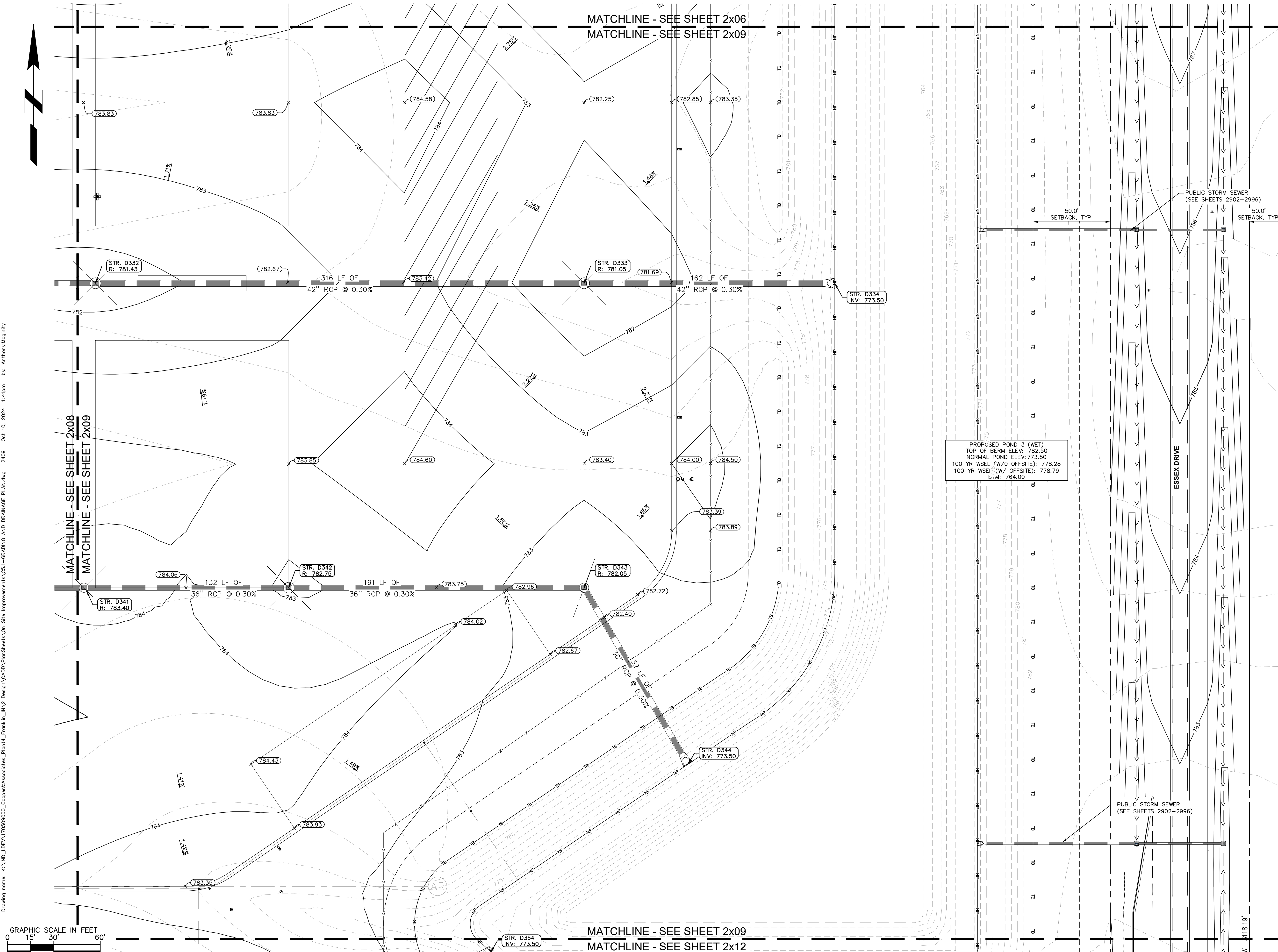
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 Ph. (844) 251-7823 www.quadplus.com

PROPOSED POND 3 (WET)
 TOP OF BERM ELEV: 782.50
 NORMAL POND ELEV: 773.50
 100 YR WSEL (W/O OFFSITE): 778.28
 100 YR WSEL (W/ OFFSITE): 778.79
 L.M.: 764.00



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REV	DESCRIPTION	DATE	IS.BY	REV	DESCRIPTION	DATE	IS.BY



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