

Scale: 1" = 20'

Civil Engineering Construction Documents

Van Buren Flatts

306 West Van Buren Street, Columbia City, Indiana 46725

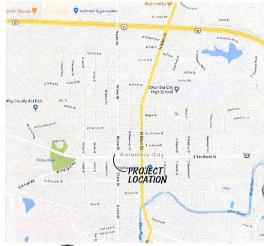
Neighborhood Homes & APTS, LP 522 South 13th Street Decatur, Indiana 46733 Phone: 1.800.589.4332

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SITE STATISTICS

SITE AREA = 27,355 SQ. FT BUILDING COVERAGE % = 11,007 SQ. FT. - 40% IMPERVIOUS AREA % = 24,314 SQ. FT. - 89% OFF STREET PARKING = 30 STANDARD 2 HANDICAP ACCESSIBLE 32 TOTAL

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SITE LOCATION MAP NOT TO SCALE

Real Estate Description

 $\underline{\text{ALSO}}$ LOT TWO (2) IN BLOCK ONE (I) IN SHINNEMAN'S FIRST ADDITION TO COLUMBIA, NOW CITY OF COLUMBIA CITY.



PROJECT OWNER/DEVELOPER:

PROJECT CIVIL ENGINEER/LAND SURVEYOR:

Fore Sight Consulting, LLC 1910 Saint Joe Center Rd, Suite 51 Fort Wayne, Indiana 46825 260.484.9900 phone 260.484.9980 fax



ForeSight Consulting,

Performed for:

BIG

46725

Indiana

Columbia City,

Van 306 West

Sheet For:

Cover

Drawing Revisions

Commission Number 182297

Date February 8th, 2019

Title Cover Sheet

GENERAL SPECIFICATIONS

- ALL WORK FERFORED ON THE SITE SHALL CONFORM TO THE SITE CONSTRUCTION PLANS AND SPECIFICATIONS SITE CONSTRUCTION SHALL BE INCORPORANCE MY APPRILABLE FEDERAL STATEMENT (SITY OR LOCAL AGENCY ORDINANCE REQUIREMENTS, SYMMETHER SHEETERS AND DEVELOPMENT (SITY OR LOCAL AGENCY ORDINANCE REQUIREMENTS, SYMMETHER SHEETERS AND DEVELOPMENT SHEETERS AND SHEETERS
- THE CONTRACTOR SHALL GETAIN ALL INCESSABLY FERVITS AND APPROVALS FROM TO THE COMMISSION OF CONTRACTOR TO THE COMMISSION OF CONTRACTOR OF COMMISSION OF COMMI
- 3.THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY LOCAL FERMITS REQUIRED FOR CONSTRUCTION IN PUBLIC RIGHT-OF-WAY OR ANY OTHER FREMITS REQUIRED BY THE LOCAL REGULATORY ASENCIES TO COMPLETE THE CONSTRUCTION AS DETAILED IN THESE PLANS. THE OWNER OR HIS REPRESENTATIVE WILL AND THE CONTRACTOR IN OBTAINING SUCH PERMITS AS MAY BE NECESSARY.
- 4.A MINIMAM OF 40 HOURS NOTICE MILL BE FROVIDED TO THE APPROPRIATE GOVERNMENTAL AGENCY PRIOR TO CONSTRUCTION, RESTART, OR CHANGE OF OPERATION AND SHALL BE IT RESPONSIBILITY OF THE CONTRACTOR, THE CONTRACTOR MUST FURTHER NOTIFY THE CITY ENGINEERS OFFICE 40 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY (INCLUDING UTILITY INSTALLATION) WITHIN EXISTING RICHT-OF-MAY TO SCHEDULE INSPECTION. ANY WORK WITHIN SAID RIGHT-OF-MAY THAT HAS NOT BEEN INSPECTED WILL BE REJECTED.
- 5.ANY UTILITY CONNECTIONS THAT REQUIRE CONSTRUCTION WITHIN STATE OF INDIANA RIGHT-OF-WAY SHALL REQUIRE AN INDIC LINE CUT PERMIT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ENSINEER AND OWER TO COMPLETE THE PERMIT.
- 6.A PRE-CONSTRUCTION CONFERENCE INCLUDING THE OWNER, ARCHITECT, ENSINEER, CONTRACTOR, GOVERNMENT OFFICIALS, REPRESENTATIVES OF PRIVATE UTILITY COMPANIES, AND OTHER INTERESTED PARTIES SHALL BE HELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- I.THE OWNER OR HIS REPRESENTATIVE SHALL NOTIFY ALL UTILITY COMPANIES AND THE CONTRACTOR BEFORE THE PRECONSTRUCTION MEETING, NO CONSTRUCTION WILL BEGIN UNTIL SAID PRECONSTRUCTION MEETING HAS DEEN HELD.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD BEFORE STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS, IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONTRION, THE CONTRACT SHALL CONTRACT BUSINESS INVESTIGATELY MEDIATELY.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING FEATURES WHICH LIE ALONG THE PREMIETER OF THE SITE. THESE FEATURES INCLUDE, BUT ARE NOT LIMITED TO. BUILDINGS, PAVENENTS, FENCES, VEGETATION, UTILITIES, PROPERTY MARKERS, ETC. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE INHICH DECURS DIRING OR AS A RESULT OF CONSTRUCTION ACTIVITY, REPLACEMENT OF DAMAGED PROPERTY SHALL BE EQUAL TO EXISTING CONDITIONS.
- IO. UTILITY LOCATIONS SHOWN HEREN ARE APPROXIMATE LOCATIONS AS LOCATED BY THE VARIOUS UTILITY COPPANES. CONTRACTOR SHALL VERIFY LOCATION OF ALL INDERGROUND UTILITIES PRIOR TO COMMITTEE THE CONTRACTOR SHALL CONTRACT IN THE STANLE BE DECEMBED. TO PRIVATE DEPARTS OF THE PROPERTY OF MINISTER SHALL CONTRACT OF SHALL SHALL CONTRACT OF SHALL SHALL SHALL SHALL CONTRACT OF SHALL SHALL
- II. THE CONTRACTOR SHALL NOTIFY INDIANA UNDERGROUND PLANT PROTECTION SERVICES, "INDIANABII", FORTY-EIGHT (46) HOURS IN ADVANCE OF ANY EXCAVATION BY CALLING I-BOO-362-5544 OR BII, OR ON THE INTERNET AT INVACALABILICAM, IN ACCORDANCE WITH LC, B-1-26, ALL EXCAVATIONS, WITHIN 24" INCHES OF EXISTING UTILITY INSTALLATIONS SHALL BE PERFORMED BY HAND EXCAVATION, AIR CUTTINS, OR ACCUMENCAVATION.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE TRAFFIC CONTROL ON THE ADJACENT PUBLIC STREETS, AS RELATED TO BOTH PHYSICAL SITE IMPROVEMENTS AND THE MOVEMENT OF CONSTRUCTION TRAFFIC, CONSTRUCTION TRAFFIC, CONSTRUCTION TRAFFIC, CONSTRUCTION ENTRANCE AS SHOWN ON THE STORM HAVER POLLUTION PREVENTION PLAN.
- 3, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOBSITE AND SAFETY OF ALL PERSONS AND PROPERTY DURING FERFORMANCE OF THE WORK, ALL CONSTRUCTION ACTIVITY AND SAFETY PROVISIONS SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAVIS, ORDINANCES AND CODES, ALL TRENCHING, PIPE LAYING AND BACKFILLING OPERATIONS SHALL BE IN ACCORDANCE WITH OSHAR REGULATIONS.
- 14. SUFFICIENT SHEETINS, SHORING AND BRACING SHALL BE PROVIDED BY THE CONTRACTOR TO ENSURE SAFETY OF THE WORKNER AND WEBSEVER IT IS NECESSARY TO PROTECT AND PRESERVE LIFE. STRUCTURES AND PROPERTY AND COMPLETE THE WORK IN THESE PLANS. THE DESIGN AND INSTALLATION OF SUCH DEVICES SHALL BE COMPLETED INDER THE DIRECT SUFFERYISION OF A QUALIFIED INDIVIDUAL.
- 16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, GRAVEL, AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OF PRIVATE STREETS OR SIDEWALKS, THE CONTRACTOR MUST CLEAN THESE DAILY IF NECESSARY. THE CONTRACTOR MUST USE MATER OR OTHER METHODS TO KEEP AIRBORNE DUST TO A REQUIRED MINIMAN, NO METAL DIMPISTERS SHALL BE PLACED ON STREETS OR PAYED AREAS AFTER CONSTRUCTION.
- IT, SITE CONSTRUCTION LAYOUT FOR BUILDING FOUNDATIONS, CURBS, STREETS, WATER MAINS, DRAINAGE SWALES, STORM SEVER STRUCTURES, AND SANITARY SEVER MAINOLES SHALL BE FURNISHED BY THE CONTRACTOR AND PERFORMED BY OR UNDER THE SUPERVISION OF A LAND SURVEYOR REGISTERED IN THE STATE OF INDIANA AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN 865 IAC 1-12-5.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING MYS. COORDINATING INSECTIONS WITH THE APPROPRIATE CONSERVATION ASSESSOR OF HILLIN IN ACCORDINACE HISTORY OF A THIT TO SECURITY OF A THIT TO SECURITY OF A THIT OF A THIRD ASSESSOR OF A SECURITY OF A THIRD ASSESSOR O EQUIREMENTS OF SAID AGENCIES. THE CONTRACTOR SHALL PROVIDE SAFE ACCESS TO THE ONSTRUCTION SITE FOR ALL INSPECTORS AND SHALL PROVIDE MATERIAL SAMPLES FOR TE
- IR TOPOGRAPHIC AND EXISTING SITE INFORMATION SHOWN IN THESE PLANS HAS BEEN PROVIDED BY THE OWNER AND THE CONTRACTOR ACCEPTS SUCH INFORMATION BY ACCEPTING THIS CONTRACT. IF THE CONTRACTOR BELIEVES A SIGNIFICANT CONFILICIT EXISTS BETWEEN SUCH TOPOGRAPHIC INFORMATION AND THE ACTUAL SITE CONDITIONS, HE SHALL SUBMIT A TOPOGRAPHIC SURVEY COMPLETED AND CERTIFIED BY A LAND SURVEYOR REGISTERED IN THE STATE OF INDIANA PRICA TO THE BEGINNING OF ANY CONSTRUCTION AT THE SITE FOR THE OWNERS REVIEW RETRIEBENORE, THE CONTRACTOR SHALL INFORM HINGLE, OF THE CONDITIONS INDER MICH THE MORK TO BE FERROWED. THE SITE OF THE MORK, THE OBSTRACTS HINGLE HAY BE ENCORPRISED AND ALL OTHER RELEVANT MATTERS CONCERNING THE MORK OF ANY THATTERS OF THIS MICH HAY DE ENCORPRISED AND ALL OTHER RELEVANT MATTERS CONCERNING THE MORK OF ANY THATTERS OF THIS MICH HAY DECENTED AND ALL OTHER RELEVANT MATTERS CONCERNING THE MORK OF ANY THATTERS OF THIS MICH HAY DECENTED AND ALL OTHER RELEVANT MATTERS OF THIS MICH BY REJECT OF THE MORK OF THE M
- 20. ELEVATIONS OF ALL EXISTING FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- 21. IN GENERAL, ALL OPEN TRENCHES OR SIMILAR EXCAVATIONS SHALL BE FILLED AT THE END OF THE DAY'S NORK OR OTHER SPECIFIC OPERATIONS, WHEN THIS IS NOT POSSIBLE OR FRACTICAL, ALL OPEN TRENCHES OR SIMILAR EXCAVATIONS SHALL BE ADEQUATELY FENCED OR "CAUTION" TAPED AT THE END OF EACH DAY'S WORK OR DURING OTHER TIMES WENT THE CONTRACTOR IS NOT ACTIVILLY MORKING AT THE SHE.
- ACTOR SHALL INDEMNIFY AND SAVE AND HOLD OWNER HARMLESS FROM ANY LOSS, COSTS CLAINS OR EXPENSES (INCLIDING BIT NOT LIMITED TO, ATTORIET'S FIELS AND COART COSTS) ASSISSION OF OR IN CONSCION INTH ANY SECHANCE (ILEN FILED BY A SARCOMINACTOR OR MATERIAL OR EQUIPMENT SUPPLIER BIGAGED OR EPPLOYED IN CONNECTION WITH THE WORK IN THESE FLANS OR NITH SUBSEQUENT CHANGE CORSES, EXCEPT THIS INDEPMIFICATION SHALL NOT BE EMPFORCEABLE DURING ANY PERIOD OF TIME THAT THE OWNER, IS IN DEFAULT IN FAILING TO MAKE PAYMENTS WEND DUE THE CONTRACTOR UNDER THEIR THAILAL SORE EVENT.
- 4.ALL AREAS DISTURBED BY THE CONSTRUCTION PROCESS SHALL BE RESTORED TO THE CONDITION THAT EMISTED PRIOR TO CONSTRUCTION, AS APPLICABLE, BACKPILLING SHALL BE TO THE GRADE OF THE EMISTING GROUND LEVEL, OR TO THE GRADE AS ESTABLISHED BY THE PROPERTY OWNER IN THE EMPIRIT THE PROPERTY OWNER PEROMITS THE DEPOSIT OF EXCESS MATERIAL UPON HIS LAND, WILESS SPECIFICALLY DIRECTED OTHERWISE IN THESE PLANS.
- 25.THE CONTRACTOR SHALL CONFINE HIS WORK TO THE PROPERTY AND CONSTRUCTION LIMITS SHOWN IN THESE PLANS AND WITHIN APPLICABLE PUBLIC RIGHT-OF-WAY AND EASEMENT LIMITS. IF THE METHODS OF CONSTRUCTION EMPLOYED BY THE CONTRACTOR ARE SUCH AS TO REGUINE THE USE OF ANY ADDITIONAL LAND, HE SHALL MAKE HIS OWN ARRANGEMENTS WITH THE PROPERTY OWNERS AFFECTED FOR THE USE OF SUCH ADDITIONAL LAND,

GENERAL SPECIFICATIONS CONTINUED

- 26.IN THE EVENT THAT THE OWNER LETS OTHER CONTRACTS IN CONNECTION WITH THE WORK OF THE CONTRACTOR, THE CONTRACTOR SHALL COOPERATE WITH OTHER CONTRACTORS WITH REGARD TO STORAGE OF MATERIALS AND EXECUTION OF THEIR NORK.
- 27 JUNEES OFFERVISE SPECIFIED ALL MATERIALS AND EQUIPMENT INSTALLED ON THE PROJECT SHALL BE ISBN AND BOTH VORKINAMEN AND MATERIAL SHALL BE OF SCOD GUALTIT MARKEATINED MATERIAL AND EQUIPMENT SHALL BE APPLIED, INSTALLED AND CONSTRUCTED AS DIRECTED BY THE MANKEACTINERS GUIDELINES AND RECONVENDATIONS, WEREVER PROPRIETARY EQUIPMENT IS SPECIFIED OR "APPROVED EQUIPMENT WHITING FOR THEIR APPROVAL FOR SUBSTITUTION SHALL BE SUBMITTED TO THE APPROPRIATE ACRES'Y IN WRITING FOR THEIR APPROVAL.
- 28.IPON FAILURE TO FERFORM THE WORK IN ACCORDANCE WITH THESE CONSTRUCTION PLANS AND SPECIFICATIONS, AND AFTER RIVE (5) DAYS WRITTEN NOTICE TO THE CONTRACTOR. THE OWNER MAY, WITHOUT RESLIDICE TO ANY OTHER REPORT HE MAY HAVE, CORRECT SUCH DEFICIENCIES IN YORK INTERDED TO BECOME A PERMANENT PART OF THE PROJECT, THE COST TO CORRECT SUCH DEFICIENCIES MAY BE DEDUCTED FROM THE PATYMENT DUE THE CONTRACTOR.
- 29.THE ONNER SHALL HAVE THE AUTHORITY TO SUSPEND THE WORK WHOLLY OR IN PART, FOR SUCH PERIOD OR PERIODS AS HE MAY DEEN RECESSARY DUE TO UNSUITABLE WEATHER OR SUCH OTHER CONDITIONS AS ARE CONSIDERED WEAVORABLE TO CARRY OUT THE PROVISIONS OF THE MORK.
- 30. THE CONTRACTOR, PROMPTLY AFTER BEING AWARDED THE CONTRACT, SHALL PREPARE AND SJEMIT FOR THE OWNERS AND SJRVEYORS INFORMATION A CONTRACTORS CONSTRUCTION SCHEDULE FOR THE WORK, THE CONTRACTOR SHALL PERFORM THE WORK ACCORDING TO SAID SCHEDULE AS MUCH AS POSSIBLE.
- 3). THE CONTRACTOR IS RESPONSIBLE TO THE OWNER FOR THE MORK OF HIS SUBJOURNACTORS, AS APPLICABLE, AND OF THEIR DIRECT AND INDIRECT THEY OFTER TO THEE STOT HE SAME EXTENT AS HE TO RESPONSIBLE FOR THE MORK OF HIS EMPLOYIES. THE CONTRACTOR SHALL BIND ANY SUBJOURNACTOR BY THE TERMS OF THESE CONSTRUCTION PLANS AND SPECIFICATIONS.
- 32.THE CONTRACTOR SHALL REMOVE FROM THE OWNERS PROPERTY, AND FROM ALL RUBLIC AND PRIVATE PROPERTY, ALL TEMPORARY STRUCTURES, RUBBISH, AND INASTE MATERIALS RESULTING FROM HIS OFFERATION OR CAUSED BY HIS EMPLOYEES, ALL OF HIS EXOPIMENT, TOOLS AND SUPPLIES, AND ALL SURFLUS MATERIALS (MILESS OTHERWISE DIRECTED IN THESE PLANS OR DIRECTED BY THE OWNER) LEAVING MES SITE SWOOTH, CLEAN AND TRUE TO LIKE AND OR ADD.
- 33. ALL PORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THESE CONSTRUCTION PLANS AND SPECIFICATIONS AND SHALL BE COMPLETED WODER THE DIRECT SUPERVISION OF THE CONTRACTOR AND SPECIFICATIONS AND SHALL BE COMPLETED CONSTRUCTION PLANS AND AND SHALL BE AS AFFRONCED BY THE OWNER AND ANY APPLICABLE CONSTRUCTION ASSESSMENT ASSESSMENT
- THIS SPECIFICATION DOES NOT ALLOW THE ENTIRE PROJECT TO BE CONSTRUCTED AT SUCH LIMITS (E.G. INIS SPECIFICATION LOSS NOT ALL MITE ENTIRE PROJECT TO BE CONSTRUCTED AT SUCH LIMITS (E.G. CONSTRUCT THE ENTIRE PROJECT OF THE DID BELOW DESSON LEVATION), IN SEREMAL CONTRACTOR SHALL CONSTRUCTION REQUIREMENT TO ENQUIRE PROPER ABOVE LIMITS ARE BEING ESTABLISHED AS A NAMMAN CONSTRUCTION REQUIREMENT TO ENQUIRE PROPER DRAINAGE AND PROJECTION OF THE CONSTRUCTION REQUIREMENT TO ENQUIRE PROPER LIMITS REQUIRE APPROVAL OF THE OWNER AND ENGINEER/SURVEYOR AND/OR GOVERNMENTAL AGENCY OR UTILITY HAVING AUSTONICATION OF THE THEORY FROM THE CONSTRUCTION OF THE IMPROVEMENTAL CASE OF THESE CASE AND AND AUSTONICATION OF THE PROPER PROJECTIONAL OF THE IMPROVEMENTAL CASE OF THE PROPER PROJECTIONAL OF THE IMPROVEMENTAL CASE OF THE SECOND AND ALL APPLICABLE COVER SEPARATION, AND OTHER CONSTRUCTION REQUIREMENTS SPECIFIED IN THESE PLANS ARE MEY SET.
- 4.THE OWNER SHALL HAVE THE RIGHT TO TAKE POSSESSION OF AND USE ANY COMPLETED OR PARTIALLY COMPLETED PORTION OF THE MORK AS NEGOTIATED WITH THE CONTRACTOR PRIOR TO ACCEPTANCE OF THE MORK SAY POSSESSION AND USE SHALL IN O
- 35.ANY PLAN CONFLICTS SHALL BE SUBMITTED IN WRITING IMMEDIATELY TO CRIPE ARCHITECTS + ENGINEERS
- 36.AS-BULT CONSTRUCTION DRAWINGS SHALL BE FURNISHED TO THE OWNER BY THE CONTRACTOR AND SHALL BE PERFORMED BY A LAND SURVEYING FIRM WITH A LAND SURVEYOR REGISTERED IN THE STATE OF INDIVINAL THE CONTRACTOR SHALL ASSIST THE OWNER IN PREPARING THE A-BULT PRAVINGS AND SHALL BE REQUIRED TO KEEP AN AS-BULT RECORD DURING CONSTRUCTION AND INFORMATION REQUIRED FOR PREPARING SUCH RECORD SHALL BE RECORDED FINDED TO THE BACKFILLING OF THE WIDERSROUND FACILITY. SEE SPECIFIC AS-BULT INFORMATION REQUIRED. AS-BULT PROPERTIES OF THE WIDERSROUND FACILITY. SEE SPECIFIC AS-BULT THE WIDERSROUND ATTAINS SHALL ONLY BE COMPLETED AND ISSUED ONCE. ANY EXPENSE FOR ADDITIONAL FIELD DATA OR REISSUANCE OF AS-BULLTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

DEMOLITION SPECIFICATIONS

- I, CONTRACTOR SHALL USE REASONABLE MEASURES TO MINIMIZE DISTURBANCE OF BUILDINGS, TREES, VEGETATION AND SITE IMPROVEMENTS ADJACENT TO CONSTRUCTION AREAS, OWER SHALL DESIGNATE SUITABLE AREAS MITHIN THE PROPERTY FOR USE IN THE STORAGE, STAGHIS AND STOCKPILING OF MATERIALS, EXCAVATION, TRENCHING, AND USE OF HEAVY EQUIPPENT ON THE GROUND UNDER TREES TO BE
- 3.BRUSH, TREES, STAMPS AND GRUBBING DEBRIS SHALL BE REMOVED AS NECESSARY TO COMPLETE THE WORK IN THESE PLANS OR AS MAY BE DIRECTED BY THE OWNER, NO ON-SITE DISPOSAL SHALL BE ALLOWED, NO DURNING SHALL BE ALLOWED, WE SITE SHALL BE PRESERVED AT THE OWNER'S DISCRETION.
- 4. DISPOSAL AND REMOVAL OF MATERIALS FROM SITE SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL GUIDELINES
- 5. WHEN SAW CUTTING EXISTING CONCRETE PAVEMENT, CONTRACTOR SHALL LOCATE SAVICUTS ALONG EXISTING EXPANSION JOINTS WHEN FEASIBLE.

EARTHWORK, SUBGRADE, TRENCHING, AND BUILDING PAD **SPECIFICATIONS**

- EARTHWORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 200 OF THE INDOT "STANDARD SPECIFICATIONS", LATEST EDITION. THE CONTRACTOR SHALL NOTIFY THE ENSINEER'S OFFICE AND THE OWNER AT LEAST 40 HOURS BEFORE BEGINNING EXCAVATION AND EMBANKMENT CONSTRUCTION.
- 2.COMTRACTOR SHALL COMP.Y INTH ALL STATE AND LOCAL STORM MATER POLUTION PREVENTION ORDINANCES THAT APPLY, ALL EROSION AND SEDIMENT CONTROL NEASHES AND DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THIS PROJECTS STORM WATER POLLUTION PREVENT PLAN.
- 3. THE CONTRACTOR SHALL EMPLOY A QUALIFIED GEOTECHNICAL ENGINEER FOR THE INSPECTION OF ALL BULLDIES PADS AND FOR THE INSPECTION OF SUBSYADES AND COMPACTED FILLS AS REQUIRED BY THESE PIELD DEBING FOR CONTRACTED FILLS ALL SUBSYADES AND FILLS SHALL NEET OR EXCEPT HE SPECIFIED DEBINITIES, AS DISCUSSED BELOW, BASED UPON REPORTS FROM THE GEOTECHNICAL ENGINEER, SUBSYADES OR FILLS SHICK AS DISCUSSED BELOW, BASED UPON REPORTS FROM THE GEOTECHNICAL ENGINEER, SUBSYADES OR FILLS SHICK AS DISCUSSED BELOW, BASED UPON REPORTS FROM THE GEOTECHNICAL ENGINEER, SUBSYADES OR FILLS SHICK AS DISCUSSED SHE OF SHE CONTRACTORY WORK AND TESTING AT NO ADDITIONAL EXPENSE TO THE OWNER, COMPACTION TESTS SHALL BE TAKEN AT RANDOM INTERVALS AND ELEVATIONS TREADING THE FILL EMPLOYMENTS.
- 5.CONTRACTOR SHALL INCLIDE A SEPARATE ITEM IN HIS BID SHOVING THE ANTICIPATED EARTHWORK
 GUARTITIES (NET EXCESS OBSTE OR IMPORT MATERIAL TO CONFORM TO THIS GRADING PLAN) AND SHALL
 COORDINATE REPOYAL. AND THE PROPAREY STOCKPILLING OF EXCESS OBSTE MATERIAL IN HIT THE
 CONTRACTOR SHALL INCLIDE A SEPARATE AND ADDITIONAL TEM IN HIS DIFFOR REPOYAL OF EXCESS
 ONSITE MATERIAL.
- I.CONTRACTOR SHALL BE RESPONSIBLE FOR GRADINS THE SITE IN ACCORDANCE WITH THE GRADINS PLANS CONTAINED IN THIS CONSTRUCTION SET. ANY REMAINING TOPSOIL STOCKFILES AND OVERBURDEN MATERIAL SHALL BE REVOVED FROM THE SITE UPON LOWINGLIGHT OF THE PROJECT. CONTRACTOR SHALL NOT BE ALLOYED ANY EXTRA COMPENSATION FOR SATISPYING THIS SPECIFICATION.
- 7.IN CASES WEN THERE IS EXCESS ONSITE MATERIAL AND IF THE ENSINEER DETERMINES THE MATERIAL IS SUITABLE FOR LANDSCAPING, THE CONTRACTOR SHALL ANTICIPATE USING A PORTION OF SUCH MATERIAL TO PLACE LANDSCAPING MOADS WITHIN THE CARBED ASSEA OF THE FRO. DECT AND SHALL DO SO AT THE ONNERS DISCRETION. ANY SUCH LANDSCAPING SHALL BE APPROVED IN NOTIFICE MODIFIED AND SHALL NOT ALTER THE DEATHAGE PATHERS AS SHOWN OF THE APPROVED GRADING PLACE.

EARTHWORK, SUBGRADE, TRENCHING, AND BUILDING PAD SPECIFICATIONS CONTINUED

- 8. CONSTRUCTION AS-BUILT DRAWINGS SHALL INCLUDE AS-BUILT ELEVATIONS FOR DRAINAGE SWALES SERVING MORE THAN THEIR OWN SINGLE LOT, CONTOURS ON A ONE-FOOT INTERVAL, AND AS-BUILT STORM SEVER SYSTEM TOP OF CASTING AT INVEST ELEVATIONS
- 9. CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IS ACHEVED ON ALL FINAL SURFACES. IN THE EVENT OF GRADING DISCREPANCIES ON THIS PLAN, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY FOR RESOLUTION.
- IO. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHILE EXCAVATING AROUND EXISTING TREES SO NOT TO DISTURB AND TO MINIMIZE OR ELIMINATE DAMAGE TO ROOT SYSTEM.
- II. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WE'N EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIEY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COPPANIES SO NOT TO CAUSE DAMAGE.
- 2. CONTRACTOR WILL REMOVE TOPSOIL FROM ALL AREAS OF EXCAVATION AND WITHIN 3 FEET OF BACK OF CURB OR BUILDING PADS AND STOCKPILE ON SITE AT A LOCATION DESIGNATED IN THESE PLANS OR AS PRESCRIEDO BY THE OWNER, DIRING FINAL LOT GRADING CONTRACTOR WILL RETRIEVE TOPSOIL FROM STOCKPILE AND SPREAD ONTO THE LANDSCAPED AREAS, AND ANY OTHER AREAS REQUIRING PERMANENT SEEDING.
- 14. AFTER THE PAYENET AREAS, HAVE BEEN STRIPED, FILLED, AND COMPACTED, THESE AREAS SHALL BE PROOF-ROLLED WITH A REQUIRED MEMBER OF THE PAYENES OF THE PROOF-ROLLED WITH A RECEIVED AND A RECEIVED WITH A REPRESENTATION OF STRIPE AND APPROVED BY THE SHORLED AND APPROVED BY THE SHORLED
- 15. SUBGRADE REPLACEMENT SHALL BE ILLUSTRATED ON AS-BUILT DRAWINGS AND SHALL INCLUDE THE DEPTH, TYPE OF GRANULAR FILL UTILIZED AND AREA.
- 16. IMERE B. BORRON 16. SPECIFIED IN THESE PLANS, DETAILS, OR SPECIFICATIONS, IT SHALL BE DEFINED AS FOLLOWS. THE MATERIAL USED FOR SPECIAL FILLIUS SHALL BE OF ACCEPTABLE CAULTY, FREE PROM LARGE OR FROZEN LIMPS, MOZO, OR OTHER EXTRANGOLE MATTER. IT SHALL CONSIST OF SUITABLE SAND, OZ GRAVER, CROSHED STOKE, ACEP, GEP, OR OTHER APPROVED HATTERIAL THE MATERIAL SHALL CONTAIN NO MORE THAN IOS PAGSINS THE NO. 200 (TS MM) SIEVE AND SHALL BE OTHERWISE SUITABLY GRADED THE USE OF AN ESSENTIAL SHALL CONTAIN TO THE MORE THAN IOS PAGSINS THE NO. 200 (TS MM) SIEVE AND SHALL BE OTHERWISE SUITABLY GRADED.
- IT. ALL COMPACTED FILL IMMERIAL SHALL BE SATISFACTORY BORROW SOILS APPROVED BY THE
 GEOTICHNICAL ENGINEER, REFER TO THE DETAILS FOR STOKE TYPE AND DEPTH FOR THE SUBGRADE
 STOKE FOR SHALL BE SHALL BE SHALL BE SHALL BE CONTROLLED THE FROZEN MATERIAL,
 LARGE ROCK GREATER THAN 3 INCHES RUBBISH S. MG. COTHER ROCANDE MATERIAL
 LARGE ROCK GREATER THAN 3 INCHES RUBBISH S. MG. COTHER ROCANDE FOR APPROVAL PRIOR TO THE
 FILL MATERIALS SHALL BE SUBMITTED TO THE GEOTICHNICAL ENSINEER FOR APPROVAL PRIOR TO FILL
 PLACED IN LIFTS NOT TO EXCEED B INCHES IN LOSS THICKNESS AND CAMPACTED TO 100% OF MAXIMAD BRY
 DRISHTY IN ACCORDANCE WITH ASTIM DENSITY TEST D-1951. THE TOP 12 INCHES OF BUILDING SUBGRADE
 AND EACH B INKL LATER OF BUILDING FILL EMBANY-RUBT SHALL BE COMPACTED TO 100% MAXIMAM DRY
 DRISHTY. THE AREA OF COMPACTED FILL FOR THE BUILDING SHALL BRICKNESS TO THE STEP THE PROVIDED THE
 STERROR FOR ALLS. FILL IN LANY OR LANDSCAPE AREAS SHALL BE COMPACTED TO 103 MAXIMAM DRY
 SHOULD BE SPRINKLED WITH WATER AS REQUIRED TO BUSKE OF MATERIAL BRICKNESS AND
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 VIDEATORY COMPACTOR OR OTHER APPROVED EDUIPMENT SUFFICIENTLY SO THAT THE MOSTINGE
 CONTENT MILL PERMIT PROPER COMPACTION. EACH LATER SHALL BE WIFFORMLY COMPACTED USING A
 VIDEATORY COMPACTION OF ON THE PROPERCY DE FOR THE VIDEATOR SHIPLE TO CONTENT APPROVED EDUIPMENT SUFFICIENTLY SO THAT THE LOCATION AND MATERIAL
 BEING PLACED, WOORR NO CIRCUMSTANCES SHOULD A BULLDOZER OR SIMILAR TRACKED VEHICLES BE
 SEED AS COMPACTIBE OR PROPERCY EDUIPMENT SHALL NOT EXCEED A NOVES IN LOOSE THICKNESS FOR MATERIAL
 COMPACTED BY HAND-OPERATED TAMPERS.
- IB. IN-PLACE DENSITY TESTS SHALL BE PERFORNED THROUGHOUT THE BUILDING FILL EMBANAMENTS, AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST ONE DENSITY TEST SHALL BE PERFORNED FOR EVERY 2000 90. FT OF BUILDING FILL OR SIGNAPOR, BUT IN NO CASE FEWER THAN 3 TESTS, NHEET THE RESIST OF THE IN-PLACE DENSITY TESTS INDICATE COMPACTION SPECIFICATIONS ARE NOT OBTAINED, OR NHEET APPROVED COMPACTED FILLS ARE DISTURBED BY THE CONTRACTORS SPECIFICATION TO REPORT AND COMPACTED FILLS ARE DISTURBED BY THE CONTRACTORS SPECIFICATION THAT OR A AVEREE NATION FOR AVERS SHALL BE REVORKED UNTIL COMPACTION CRITERIA ARE ACHIEVED, THE GEOTECHNICAL ENGINEER ANALL ISSUES REPORT DOCUMENTS.
- II. IN AREAS WHERE THE PAVEMENT SUBGRADE ELEVATIONS ARE ACHIEVED WITHOUT FILL OPERATIONS, THESE AREAS SHALL BE PROOF-ROLLED WITH A MEDIUM REIGHT ROLLER OR OTHER APPROVED EQUIPMENT TO DETERMINE IF ANY POCKETS OF SOFT, INSUITABLE MATERIALS ARE PRESENT, IF POCKETS OF INSUITABLE MATERIALS ARE PRESENT, IF POCKETS OF SUBGRADE REINFORCEMENT OR COMPACTED GRANLAR FILL. THE GEOTECHNICAL ENGINEER OR A REPRESENTATIVE APPOINTED BY THE OWNER AND APPROVED BY THE ENGINEER SHALL BY RESENT DURING PROOF-ROLLING OPERATIONS AND SHALL SUBMIT A REPORT OF ACCEPTANCE TO THE ENGINEER AND OWNERS.
- O. WERE PREVIOUSLY APPROVED AND COMPACTED SUBGRADES ARE DISTURBED BY CONTRACTOR'S SUBSEQUENT ACTIVITY OR ADVERSE NEATHER, THE SUBGRADES SHALL BE SCARIFIED AND RECOMPACTED AS SPECIFIED ABOVE PRIOR TO THE CONTINUATION OF CONSTRUCTION.
- 2). EXCAVATE FOR STRUCTURES TO WITHIN OJ FOOT OF THE DESIGN ELEVATIONS AND DIMENSIONS, EXTEND EXCAVATIONS A SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORWORK DO NOT DISTANS THE BOTTOM OF THE EXCAVATION INTENDED FOR BEARING SURFACE, EXCAVATE BY HAND TO FINAL GRADE BEFORE PLACING CONCRETE FORWORK AND REINFORCEMENT SO FOOTINGS AND FORMATIONS BEAR ON UNDISTRIBED COMPACTED SOILS.
- 22.BACKFILL MATERIAL SHALL BE FREE OF ORGANIC MATTER, FROZEN MATERIAL, LARGE ROCK GREATER THAN 2 INCRES, S.A.G. RUBBISH, OR OTHER UNSUTABLE MATERIAL. BACKFILL SHALL BE PLACED IN LAYERS WERE BACKFILLING IS REQUISED ON BOTH SIDES OF A FOLKMAN OF THE MATERIAL SHALL BE PLACED EQUALLY ON BOTH SIDES TO AVOID WIBALANCED SOL PRESSURE ON ONE SIDE OF THE WALL.
- 23. TREIK-HING FOR ALL PIPE SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE PLANS WITH THE SIDES KEPT LEARLY AS VERTICAL AS POSSIBLE. LEDGE ROCK, BOULDERS, AND LARGE STORES SHALL BE REMOVED TO REVOIDE A MINIMA CLEARANCE AS SHOWN ON THE BEDDING PETALIS IN THESE PLANS ON ALL SIDES OF ALL PIPES, ALL WATER ENTERINS THE EXCAVATIONS OR OTHER PRATS OF THE WORK SHALL BE REMOVED BY MITH, ALL THE WORK HAS BEEN COMPLETED, NO PIPES SHALL BE USED FOR THE DISPOSAL OF THE REMOVED BY ALL PIPES, ALL WATER SHIPMING THE EXCAVATIONS OR OTHER PRATS OF THE WORK SHALL BE REMOVED BY ALL PROVIDED AND SHALL SHAPELY WITH STAND FORCES FROM SHAP WATER, HE CONTRACTION THEREIN ARE COMPLETED AND VALL SAFELY WITHSTAND FORCES FROM SHAP WATER, HE CONTRACTION SHALL PROVIDED SHIPFICHT DEVALUED WATERING BOUMPHENT AND HARE RESESSARY ARRANGEMENTS FOR THE DISPOSAL OF SAID WATER WITHOUT WOME INTERFERENCE WITH OTHER WORK OR DAMAGE TO PROPERTY.
- 24.TRENCHES INDER PAVED AREAS (EXCLIDING SIDEWALKS) SHALL BE BACKFILLED WITH GRANLAR MATERIAL IN ACCORDANCE WITH SECTION 31 OF THE NDOT "STANDARD SPECIFICATIONS", LATEST EDITION, AND COMPACTED IN LIFTS GRANLAR MATERIAL SHALL KENED 5 FT BEYOND THE LINING OF THE PAVED AREA WITH A I.I. OUTWARD SLOPE TO THE BOTTOM OF THE TRENCH WENT THE TRENCH IS PARALLEL TO THE EDGE OF A PAVEMENT RACE GRANLAR MATERIAL SHALL BE REQUIRED WITHIN 3 FEET FROM BACK OF CURB (TO THE LEADING EDGE OF THE TRENCH), GRANLAR BEDDING IS REQUIRED INDER ALL PAVED AREAS.
- 5. TERM: HES OUTSIDE OF PAVED AREAS (EXCLIDING SIDEMALKS) SHALL BE BACKFILLED WITH SUITABLE MATERIAL, COMPACTED TO WITHIN SIX (6) INVESS OF THE THIS WESTED SKOUDO SPERACE, TOPSCILL SHALL BE USED TO BRING THE SURFACE TO FINISH GRADE, IF SPOIL MATERIAL IS ENCONTERED AND FOAD TO BE INVACCEPTABLE FOR BACKFILL, THEN GRANDLAR MATERIAL SHALL BE USED.
- 26.BACKFILL AND BEDDING FOR FLEXIBLE PIPE CONDUIT MATERIALS SHALL BE GRANLAR MATERIAL IN ACCORDANCE WITH THE STANDARD BEDDING DETAILS CONTAINED HEREIN, BACKFILL FOR PIPES IN SHALLOW CONDITION (LEBS THAN 2 FEET OF COVER) SHALL BE PLACED IN LIFTS NOT TO EXCEED & INCHES IN LOOSE THICKNESS AND COMPACTED TO 100% OF MAXIMM DRY DENSITY IN ACCORDANCE WITH ASTM DENSITY EST P-1951.
- 27. FOLLOWING THE COMPLETION OF SITE GRADING AND SUBSURFACE UTILITY INSTALLATION, CONTRACTOR SHALL SUPPLY AND INSTALL TOPSOIL FILL IN AREAS DESIGNATED FOR SEEDINS, SOPDING, OR LANDSCAPING IN THE PRINCIP GRADES INCLAIDED ON THE GRADING FLAIR AND TO A MINIMAN PEPPH OF 6 FOR THE CONTRACT OF THE PLANS OF THE CONTRACT OF THE CONTRACT OF THE PLANS OF THE CONTRACT OF THE CONTRACT OF THE PLANS OF THE PLANS OF THE CONTRACT OF THE CONTRACT OF THE PLANS OF THE PLANS OF THE CONTRACT OF THE CONTRACT OF THE PLANS OF THE CONTRACT OF THE PLANS OF THE PLANS OF THE CONTRACT OF THE PLANS OF THE PLANS OF THE PLANS OF THE CONTRACT OF THE PLANS OF

SPECIFICATIONS CONTINUED

- SETTLEMENTS.

STORM SEWER SYSTEM SPECIFICATIONS

- . CONSTRUCTION OF STORM DRAINS SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL REGULRENENTS, STANDARDS AND SPECIFICATIONS, AND SECTION 115 OF THE INDOT "STANDARD SPECIFICATIONS," LATEST EDITION AND DETAILS INCLUDED IN CONSTRUCTION DOCUMENT.
- 2.THE CONTRACTOR SHALL NOTIFY THE LOCAL STORMMATER AUTHORITY AT LEAST 48 HOURS PRIOR TO ANY SEVER EXCAVATION OR CONSTRUCTION THAT IS WITHIN THE PUBLIC RIGHT-OF-HAY OR CONNECTS TO AN KINSTINS PAULIC FACILITY SEVERY FERWING AND INSPECTION REQUIRED FOR ALL CONSTRUCTIONS TO PUBLIC SEVER SYSTEM, SEVER FERWIN SHALL BE REQUIRED ON-SITE DURING ANY SEVER CONSTRUCTION, AS REQUIRED BY SAID REGULATIONS.
- 3. IN ACCORDANCE WITH 32T IAC 8-32-4; MAINTAIN A MINIMAM OF IO-FOOT HORIZONTAL SEPARATION BETWEEN OUTSIDE OF MATERIANIN AND OUTSIDE OF STORM SEWER, MAINTAIN A MINIMAM OF 8-FOOT SEPARATION BETWEEN OUTSIDE OF MATERIAN AND OUTSIDE OF STORM MANOLES, AND PHEN CROSSING WATER MAINS MAINTAIN A MINIMAM ANGLE OF 45* AND IO-INCHES VERTICAL SEPARATION.
- 4.ALL STORM DRAINS CROSSING WITHIN 18" VERTICALLY OF A SANITARY SEVER OR WATER MAIN SHALL HAVE A CONCRETE SPACER BLOCK FOURDE BETWEEN THE FIFES TO PROVIDE STRUCTURAL SUPPORT, WEN CROSSING A NATER MAIN, A MINIMAM VERTICAL SEPARATION AT THE CROSSING LESS THAN 18 HE WEST REQUIRES THAT THE SEVER (STORM OR SANITARY) MUST BE CONSTRUCTED OF PVC 50R 21 CONFORMINS TO ASTEM D-2241 OR APPROVED WATER MAIN NATERIAL HAVING A MINIMAM PRESSURE RATING OF 200 PSI, USING COMPRESSION FITTINGS, IN ACCORDANCE WITH 321 IAC 5-32-8 1 ITA
- 5. PRIMARY DRAINAGE SYSTEM SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE (RCP). CONFORMING TO ASTIM C-16, HIGH DESISTY POLITIMILEME (HOPE) ADS STORM MY DUAL, WALL SINGLE MODE HOPE FIRE WITH WATER TIGHT INTEGRAL BELL COUNTERS CONFORMING TO AASTIM FOR 254 AND ASTIM F-661, OR FOLYNINYLCHLORDE (PVC) SDR-35 (SDR 26 WEB) INDICATED IN THE PLANS) CONFORMING TO ASTIM D-2034 FOR PIPES IS INCHES AND SMALLER. PVC RESIN CONPOND SHALL CONFORM TO ASTIM D-1304 AND RUBBER GASKETS TO ASTIM D-3212 AND F-47T, PIPE REACHES FOR JOINTS SHALL BE ASKETED BELL AND SPIGOT TYPE WITH THE BELL END MADE INTEGRAL WITH THE PIPE. PIPE MATERIAL SUBSTITUTIONS ACCEPTED BY THE DISINEER HAY BE PERMITTED, BUT MUST BE FORMALLY REQUESTED BY CONTRACTOR IN MATINIS AND APPROVED BY ENGINEER RECORD TO THOSE WITH THE PIPE PIPE MATERIAL SUBSTITUTIONS ACCEPTED BY THE DISINEER HAY BE PERMITTED, BUT MUST BE FORMALLY REQUESTED BY CONTRACTOR IN MATINIS AND APPROVED BY ENGINEER RECORD TO THE MICH TO PENSINEER FINE FOR TO INSTALLATION.
- 6.STORM DOWSFOUT DRAIN LATERALS FOR BUILDING SUB-DRAIN AND DOWSFOUT CONSECTIONS SHALL BE 6 IN DIAMETER PVC 50R-35 CONFORMING TO ASTM D-3034, LAID AT A HINIMAM SLOPE OF 0.5%, FIFE FITTINGS TEE WES, AND CONFLINGS SHALL BE SOR-26 MANIFACTURED FITTINGS MADE OF PVC PLASTIC HAVING A CELL CLASSIFICATION OF 12454-B OR 12454-C AS DEFINED IN ASTM. I IN 44. SITE WORK CONTRACTOR SHALL COORDINATE WITH SUTTENDONSPORT CONTRACTOR FOR CONSECTIONS.
- T. ALL MANHOLES AND INLET STRUCTURES SHALL BE PRECAST CONCRETE OR MONOLITHIC, CONSTRUCTED OF CLASS "A" 4,000 PSI CONCRETE, AND CONFORMINS TO ASTM C-418.
- B. NON-SHRINK GROUT SHALL BE USED ON ALL STORM DRAIN INLETS AND MANHOLES.
- IO. ADJISTMENT OF CASTING TO BE ACCOMPLISHED WITH POUR IN PLACE MONOLITHIC CONCRETE TO A MAXIMAM DEPTH OF 4 INCHES, ANY CASTING ADJISTMENT OVER 4 INCHES SHALL BE MADE WITH A PRECAST CONCRETE ADJISTMENT RING.
- II. MINIMM FLANCE BEARING SURFACE SHALL BE I-I/2" ON ALL SIDES OF THE INLET, CASTINGS SHALL REST FLUSH ON THE STRUCTURE, THE THICKNESS OF THE SIDES OF THE INLET BOXES TO BE A MINIMM OF θ INCHES.
- 12. CASTINGS SHALL BE SET IN MORTAR FER SECTION 120 OF THE INDOT 'STANDARD SPECIFICATIONS', LATEST EDITION, ALL CASTINGS ARE TO BE COATED WITH BITUMASTIC PAINT.
- 13. PREMOLDED EXPANSION JOINTS ARE TO BE PROVIDED BETWEEN THE PAVEMENT AND THE DRAINAGE INLET CASTINGS LOCATED IN PAVED AREAS.
- 14. CONFIGURATION OF THE INLETS MAY BE VARIED TO ACCOMMODATE THE DIMENSIONS OF THE CASTINGS. FRIOR WRITTEN APPROVAL BY THE ENGINEER IS REQUIRED. IS. PIPES FOR STORM SEWERS ARE NOT TO ENTER OR EXIT RECTANSILAR FRECAST CONCRETE DRAINAGE BOXES AT THE CORNERS OF THE STRUCTURES. PIPE SHALL EITHER ENTER THROUGH ONE VERTICAL FACE, OR A CIRCULAR MANULE STRUCTURE SHALL BE EMPLOYED. PIPE TO BE CUT FLUSH NATH THE INSIDE OF THE STRUCTURE.
- 16. THE COMPLETED STORM SEARR SHALL BE HIGH PRESSURE WATER JET CLEANED AND TESTED IN ACCORDANCE WITH LOCAL REQUIREMENTS. ALL COSTS OF CLEANING AND TESTING ARE TO BE BORNE BY THE CONTRACTOR.
- 11. MAINLINE STORM SENERS (MANACLE TO MANACLE) SHALL BE TELEVISED, LATERAL STORM SENERS (MANACLE TO INLET!) IN EXCESS OF 40 FT, SHALL ALSO BE TELEVISED, MAINLINE STORM SENERS THAT ARE 36' DIANETER OR LEGS SHALL BE SUBLECTED TO A MANACLE DEFLECTION TEST MEN CONSTRUCTED USING FLEXIBLE PIPE CONDIT MATERIALS, MANDREL TESTINS GHALL BE FERFORZED USING A NINE POINT '60-NO-60' MANDREL HAVING A DIANETER NOT LEGS THAN 93% OF THE PIPE DIANETER, MANDREL SHALL BE MANALLY PILLED, MITHOUT THE USE OF PECHANICAL DEVISES, CLEANINS, TESTING AND TELEVISING SHALL BE REPERORMED A MIMMOM OF A DAYS AFTER ROTALLATION, AND PERFORMED SHALL BE REPERORMED A MORNING, TESTING AND TELEVISING SHALL BE MINESSED BY THE COMPLETED REPAIRS AND BACKFILLINS, CLEANING, TESTING AND TELEVISING SHALL BE MINESSED BY THE LOCAL STORMANTER AUTHORITY, ALL COSTS OF CLEANING, TESTING AND TELEVISING SHALL BE MINESSED BY THE LOCAL STORMANTER AUTHORITY, ALL COSTS OF CLEANING, TESTING AND TELEVISING SHALL BE MINESSED BY THE LOCAL STORMANTER AUTHORITY, ALL COSTS OF CLEANING, TESTING AND TELEVISING ARE TO BE BORNE BY THE CONTRACTOR
- IB. PIPE LENGTHS SHOWN ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR FROVIDING EXACT PIPE LENGTHS REQUIRED FOR INSTALLATION

WATER SYSTEM SPECIFICATIONS

- ALL WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE THE LOCAL JARISDICTIONAL REQUIREMENTS STANDARDS AND SPECIFICATIONS, AND SHALL MEET THE MINIMAM REQUIREMENTS OF THE INDIANA STATE DOARD OF HEALTH, THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (DEPO) FOR DRINKING WATER SYSTEMS, AND SHALL MEET ALL APPLICABLE REQUIREMENTS OF INDIANA ADMINISTRATIVE CODE, TITLE 327, ARTICLE 8.
- 2.THE CONTRACTOR SHALL NOTIFY THE LOCAL WATER AUTHORITY AT LEAST 24 HOURS PRIOR TO START OF CONSTRUCTION TO MAKE ARRANGEMENTS FOR INSPECTION, TAPS AND SHIT DOWN OF EXISTING WATER MANS WERE REQUIRED.
- 3.NO UTILITY CONSTRUCTION SHALL COMMENCE UNTIL SUFFICIENT EARTHWORK HAS BEEN COMPLETED TO MEET THE MINIMUM COVER REQUIREMENTS CONTAINED IN THESE PLANS FOR ALL UTILITIES.
- 4./YATER SERVICE LINES SHALL HAVE A MINIMAN OF 60° OF COVER OVER THE TOP OF THE PIPE. IN ACCORDACE HIT 30T IAC D-32-4 MAINTAIN A MINIMAN OF IO-FOOT HORIZONTAL SEPARATION BET ACCORDACE HIT 30T IAC D-32-4 MAINTAIN A MINIMAN OF IO-FOOT HORIZONTAL SEPARATION BETWEEN OUTSIDE OF WHITE WAS MOUST OF THE STATE OF THE MAINTAIN A MINIMAN OF ID-INCHES SANTARY) AND WEN CROSSINS SEVERS (STORM AND SANITARY) MAINTAIN A MINIMAN OF ID-INCHES VERTICAL SEPARATION.
- 5. WATER MAINS CROSSING ANY AND ALL SEVERS SHALL HAVE A MINIMM VERTICAL SEPARATION OF 18* DETRENT THE OUTSIDE OF THE WATER MAIN PIPE AND THE SEVER PIPE. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF THE CROSSINS SUCH THAT BOTH OUTS WILL BE COUDISTANT AND AS FAR AWAY FROM THE SEVER AS POSSIBLE. A MINIMAL VERTICAL SEPARATION AT THE CROSSING LESS THAN 18 IN INCIDENT SEVER STORM OF SAUTHART MATERIAL HAVING A MINIMAL PRESSURE RATING OF 20 PSI AND USING COMPRESSION PITTINGS, IN ACCORDINGEN THIS 321 ACCORDINGEN THE PITTINGS, IN ACCORDINGEN THE STREET PRESSION PITTINGS, IN ACCORDINGEN THIS 321 ACCORDINGEN THE PITTINGS, IN ACCORDINGEN THE PITTINGS AND MINIMAL PRESSURE RATING OF 200 PSI AND USING COMPRESSION PITTINGS, IN ACCORDINGEN THIS 321 ACCORDINGEN THE PITTINGS AND THE PITTINGS AND MINIMAL PRESSURE RATING OF 200 PSI AND USING COMPRESSION PITTINGS, IN ACCORDINGEN THE 321 ACCORDINGEN THE PITTINGS AND THE PITTING
- 6.ALL WATERMAINS SHALL BE CONSTRUCTED CONFORMING TO AWWA C-IIO, C-III, C-ISO AND C-ISI AS APPLICABLE.
- 7. THE CONTRACTOR SHALL FURNISH, INSTALL AND TEST ALL GATE VALVES, VALVES SHALL BE INSTA INTH VALVE BOX ALIGNERS (POSI-CAPS) AND MIST BE CENTERED PRIOR TO ACCEPTANCE. VALVE OPENING DIRECTION SHALL BE LETT-HAND OPEN / COUNTER-CLOCKING.
- 8 JYATER SERVICE CONSECTION SHALL BE MADE NITH STAINLESS STEEL TAPPING SLEEVE MEETING JARISDICTIONAL REQUIREMENTS. ALL HATER SERVICE LINES FROM THE MAIN, EXTRIDING TO I FOOT BEYOND THE OUTSIDE OF THE METER BOX, SHALL BE SHALPH DIAMETER, TYPE "K" COPPER TUBING, SERVICE LINES BEYOND THE METER SHALL BE TYPE "K" COPPER TUBING OR POLYVINTLO-LICRIDE (FVC) 50R-21.
- 9.ALL TEES, PLUGS, DEAD-ENDS, AND BENDS EXCEEDING II 2516 SHALL BE MECHANICALLY RESTRAINED.
- IO. THE COMPLETED WATER SERVICE LINE SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH LOCAL WATER AUTHORITY REQUIREMENTS AND AWA G-651-42. TEST RESULTS ARE TO BE SENT TO THE LOCAL WATER AUTHORITY ENGINEERS OFFICE WITHIN 5 DATS OF TESTING.

EARTHWORK, SUBGRADE, TRENCHING, AND BUILDING PAD

- 28. NOTE: DUE TO THE LACK OF TOPSOIL PRESENT ONSITE, THE CONTRACTOR SHALL IMPORT TOPSOIL TO SPREAD IN ALL LANDSCAPED AND LANN AREAS, CONTRACTOR WILL BACKFILL ALL GRASS AREAS WITH A NINGHOM OF 6-INCHES OF TOPSOIL. THIS AREA SHALL IMPOLITATELY BE SECRED AND MALCHED, AND/OR LANDSCAPED, IF RECESSARY, IPON COMPLETION OF THE WATER, SANITARY AND STORM SEWER SYSTEMS WITH A SEED MATURE APPROPRIATE FOR THE TIME OF YEAR.
- 30. TOPSOIL FILL SHALL BE FREE OF BRICK, BLOCK, CONCRETE WASTE, ROCK, RUBBISH, OR OTH UNSUITABLE MATERIAL AND SHALL BE MODERATELY COMPACTED WHEN PLACED TO AVOID I





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Drawing Revisions

Commission Number 182297

Date February 8th, 2019

Title Site Specifications

SANITARY SEWER SYSTEM SPECIFICATIONS

- L SANITARY SEVERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL DUREMENTS, STANDARDS, AND SPECIFICATIONS; SHALL MEET THE REQUIREMENTS OF THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) FOR SANITARY SEVER COLLECTION SYSTEMS; AND SHALL MEET ALL APPLICABLE REQUIREMENTS OF INDIANA ADMINISTRATIVE CODE, TITLE 327, ARTICLE 3.
- 2.IN ACCORDANCE WITH 321 IAC 3-6-9; MAINTAIN A MINIMM OF IO-FOOT HORIZONTAL SEPARATION BETWEEN OUTSIDE OF NATERYAIN AND OUTSIDE OF SANITARY SEVER, MAINTAIN A MINIMM OF D-FOOT SEPARATION BETYZEN OUTSIDE OF WATERWAIN AND OUTSIDE OF SANITARY PAMADLES, AND WEEN CROSSING WATER MAINS MAINTAIN A MINIMM ANGLE OF 45½ AND IB-INCHES VERTICAL SEPARATION.
- 3.ALL SANITARY CROSSINS WITHIN 18" VERTICALLY OF A STORM DRAIN OR WATER MAIN SHALL HAVE A CONCRETE SPACER BLOCK POURED BETWEEN THE PIPES TO PROVIDE STRUCTURAL SUPPORT WEN COLORETE SPACER BLOCK POWED BETYEEN THE PIPES, THE POWED STRUCTURAL SUPPORT. INVESTIGATION OF A WATER HAIN, A WHIMM VERTICAL SEPARATION AT HE CROSSING LESS THAN 18 INCHES REQUIRES THAT THE SEVER (STORM OR SANITARY) HAS BE A WATER HAIN, A CORTOWNING TO A SHOT THE SEVER (STORM OR SANITARY) HAS BE A WATER HAIN OF PIPE SEX 21 CORTOWNING TO ASTIM PLAZIFIED AND A WATER HAIN OF A WATER HAIN OF THE SEVERE RATING OF ZOO PS USING COMPRESSION FITTINGS, IN ACCORDANCE WITH 32T INC 16-32-6 1 TM.
- 4. THE CONTRACTOR SHALL NOTIFY THE LOCAL SANITARY SEVER AUTHORITY AT LEAST 40 HOURS PRIOR TO ANY SEVER EXCANATION OR CONSTIQUENT HAT IS WITHIN THE PRIDLE RIGHT-OF-HAY OR CONSCIST TO ANY SEVER AUTHORITY INSPECTION THE PRIOR TO ANY OF THE PRIOR SEVER CONSTIQUENCY, SEVER PERMIT SHALL BE REQUIRED ON-SITE DURING SEVER CONSTIQUENCY, AS REQUIRED BY SAID REQUIRED. AND ON-SITE DURING SEVER CONSTIQUENCY, AS REQUIRED BY SAID REQUIRED.
- 5. ADDITIONS, DELETIONS, AND/OR REVISIONS TO THE SANITARY SEVER FACILITIES SHALL NOT BE MADE WITHOUT APPROVAL BY THE LOCAL SANITARY SEVER AUTHORITY.
- ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEVER SYSTEM ARE PROHIBITED.
- SANITARY MANHOLES SHALL BE PRECAST CONCRETE OR MONOLITHIC, CONSTRUCTED OF CLASS "A" 4,000 PSI CONCRETE, AND CONFORMING TO ASTM C-418.
- 8. JOINTS BETWEEN PRECAST SANITARY MANHOLE SECTIONS SHALL CONFORM TO ASTM C-443.
- 9. SANITARY SEVER PIPE AND FITTINGS MAY BE EITHER POLYVINYL CHLORIDE PIPE (PVC). THAT CONFORMS TO ASTM D-3034, SDR 35 FGDR 36 FGR SANITARY SEVERS NITH AN EXCESS OF 16 FEET OF COVER OR WENI NOIGATED IN THE FLAND, NITH A HIMMAN CELL CLASSFICATION OF 12454-C, OR HIGH DENSITY POLYETHYLENE PIPE (HOPE) CONFORMING TO ASTM-3350 AND ASTM-FTH, CELL CLASS PE. 3344 336, OR REINFORCED CONCRETE PIPE (RCP) CLASS II, IV, OR VI IN ACCORDANCE NITH ASTM C-76, OR DUCTILE IRON PIPE (DI) CONFORMING TO ANSI SPECIFICATIONS A21.51 AND ANYA C-151.
- THE MINIMUM WALL THICKNESS OF PVC PIPE SHALL CONFORM TO SDR-35, TYPE PSM, AS SPECIFIED IN ASTM D-3034, PVC. AND HOPE PIPE SHALL HAVE A MINIMUM PIPE STIFFRESS OF 46 POINDS PER SQUARE INCH FOR EACH DIAMETER INFEN MEASURED AT FIVE PERCENT DEFLECTION AND TESTED IN ACCORDANCE WITH ASTM D-2412.
- . PIPE JOINTS SHALL HAVE A BELL WALL, GASKET GROOVE, AND SPIGOT WHICH IS INTEGRAL WITH THE PIPE THE ASSENBLY OF JOINTS SHALL BE IN ACCORDANCE WITH THE PIPE MANEFACTURERS RECOMMENDATIONS AND ASTEN DESIZE, SOLVENT CEPTENT JOINTS SHALL NOT BE ALLLOWED FOR MAINLINE PIPE.
- 12. PIPE FITTINGS SHALL BE SDR-26 MANUFACTURED FITTINGS MADE OF PVC PLASTIC HAVING A CELL CLASSFICATION OF 12454-B OR 12454-C AS DEFINED IN ASTIN 1704, SADDLE CONNECTIONS SHALL NOT BE ALLOWED FOR NEW CONSTRUCTION. LATERAL CONNECTIONS SHALL OCCUR AT SDR-26 TEL-MTES.
- IB SANITARY SEVER LATERALS FOR BUILDING CONNECTIONS SHALL BE 6 IN DIABATER PRO SPR-35 COFFORMING TO ASTM D-2024 LATE AT A WINNIM \$COPE OF LOOK PIFE LATERALS LONGER THAN LOO FT REQUIRE A CLEAN-OUT STRUCKEL LATERAL CONNECTIONS TO AM ENSITING SEVERS SHALL BE MADE USING A BOOT-N-SADDLE TYPE CONNECTION WITH STAINLESS STEEL STRAPS AND APPROPRIATE RUBBER FITTINGS.
- 14. ALL MANHOLE AND CLEAN-OUT CASTINGS SHALL HAVE THE WORDS "SANITARY SEWER" CAST IN THE LID
- 15. THE COMPLETED SANTARY SEWER SHALL BE HIGH PRESSURE WATER LET CLEANED AND TESTED IN ACCORDANCE WITH LOCAL. AND IDEM REQUIREMENTS, ALL COSTS OF CLEANING AND TESTING ARE TO BE BORNE BY THE CONTRACTOR.
- 16. MAINLINE SANITARY SEVERS SHALL BE SUBJECTED TO AN AIR TEST CONFORMING TO ASTM FI417-42 AND TELEVISED. MAINLINE SANITARY SEVERS SHALL BE SUBJECTED TO A MADDREL DEFILECTION TEST WHEN CONSTRUCTED USING PLEASURE PIPE CONDUIT MATERIALS, MANDREL TESTING SHALL BE PERFORMED USING A NIKE POINT "GO-NO-60" MANDREL HAVING A DIAMETER NOT LESS THAN 45% OF THE PIPE DIAMETER, MANDREL SHALL BE MANDLET PULLED, WITHOUT THE USE OF MECHANICAL DEVISES, LEARNING, TESTING AND TELEVISING SHALL BE PERFORMED A MINIMAY OF 45 DATS AFTER INSTALLATION, MAY DEFICIPISHED AND TELEVISING SHALL BE PERFORMED A MINIMAY OF 45 DATS AFTER INSTALLATION, MAY DEFICIPISHED SHALL BE MADDREL SHALL BE PERFORMED A MINIMAY OF 45 DATS AFTER INSTALLATION, MAY DEFICIPISHED SHALL BE VIEW OF A STATE OF THE LOOM OF SHEEP COMPLETED. THE LOOM OF SHEEP COMPLETED SHALL BE WITHOUT SH
- IT. DEVATERING OF THE SANITARY SEVER AS REQUIRED FOR CONSTRUCTION OR TESTING SHALL BE APPROVED BY THE LOCAL SANITARY SEVER AUTHORITY AND SHALL BE IN ACCORDANCE 321 IAC 3-6-20.
- 6. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND THE PIPE INVERT DEPTH WHERE THE PROPOSED CONSECTION IS MADE TO THE EXISTING SANITARY SEVER, VERTICAL DEVIATIONS GREATER THAN O.I.F. AND HORIZOTAT DEVIATIONS GREATER THAN 19T. SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION AT THAT LOCATION.
- III. PIPE LENGTHS SHOWN ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EXACT PIPE LENGTHS REQUIRED FOR INSTALLATION

CAST - IN - PLACE CONCRETE

- I. THIS SECTION SPECIFIES CAST-IN PLACE CONCRETE, INCLUDING FORMWORK, REINFORCEMENT, CONCRETE MATERIALS, MIXTURE DESIGN, PLACEMENT PROCEDURES, AND FINISHES.
- 2. DESIGN MIXTURES FOR EACH CONCRETE MIXTURE INDICATE THE FOLLOWING
- AREA/S) IN THE PROJECT WHERE MIX WILL BE USED DARCAS) IN THE LIGHT SECTION OF THE PROPERTY O
- MATER CEMENT RATIO S.SLUMP PRIOR TO ADDITION OF WATER REDUCING ADMIXTURES

- T. ADMITURE IDENTIFICATION WITH PRODUCT SHEETS

 g AGGREGATE GRADATION BY SIGNEY SIZE

 h, AWONT OF THIS AGGREGATE TO COARSE AGGREGATE RATIO

 1. TEST DATA SUBSTANTIATING DESIGN STRENGTH PER ACI-301 METHOD I OR 2. TEST DATA SUBMITTED

 MIST DEL LESS THAN 2 YEARS OLD.
- MAT BE LESS THAN 2 YEARS OLD.

 INDICATE AND/ONTS OF MINISH WATER TO BE WITHELD FOR LATER ADDITIONS AT PROJECT SITE.

 K-SHOP DRAWINGS FOR SITEL REINFORCHENT.

 I MATERIAL TEST REPORTS AND CENTIFICATIONS.
- 3. MANUFACTURER QUALIFICATIONS: A FIRM EXPERIENCED IN MANUFACTURING READY-MIXED CONCRETE PRODUCTS AND THAT COMPLIES WITH ASTM C94 REQUIREMENTS FOR PRODUCTION FACILITIES AND FIGUREMENT.
- 4. MANUFACTURER CERTIFIED ACCORDING TO NRMCA'S OCERTIFICATION OF
- 5. FORMS FOR EXPOSED FINISH CONCRETE. PLYMODOL NETAL, METAL, FRANKED PLYMODO FACED, OR OTHER ACCEPTABLE PARIEL TYTE MATERIAL, 5 TO PROVIDE CONTINUALS, STRAIGHT, SYNOCOTH, EXPOSED SURFACES, FURNISH IN LARGEST FRACTICABLE SIZES TO MINIMIZE NUMBER OF JOINTS AND TO CONFORM TO JOINT SYSTEM SHOWN ON DRAINING.
- FORM COATINGS: PROVIDE WATER BASED COMMERCIAL FORMILATION FORM- COATING COMPOUNDS THAT WILL NOT BOND WITH, STAIN, NOR ADVERSELY AFFECT CONCRETE SURFACES, AND WILL NOT IMPAIR SUBSECURINT TREATMENTS OF CONCRETE SURFACES.
- 8. MANFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS OF THE FOLLOWING: A) DEBOND; L 4 M CONSTRUCTION CHEMICALS, INC.; B) RELEASE #1: THE BURKE CO.; C) OR APPROVED FOUND.
- 9, FORM TIES, FACTORY-FABRICATED, ADJUSTABLE-LENGTH, REMOVABLE OR SNAP OFF METAL FORM TIES, DÉSIGNED TO PREVENT FORM DÉFLECTION AND TO PREVENT SPALLING CONCRETE UPON REMOVAL. PROVIDE PLASTIC COÈS OR BUTTON TYPE UNITS WHICH NILL LEAVE NO VERTA CLOSEST THAN I % TO SURFACE, PROVIDE TIES WHICH, WHEN REMOVED, NILL LEAVE HOLES NOT LARGER THAN I & DIAMETER IN CONCRETE SURFACE.
- IO. STEEL REINFORGEMENT
- a REINFORGING BARS: ASTM A 615 GRADE 60, DEFORMED
- b.P.LAIN-STEEL WELDED WIRE REINFORCEMENT: ASTM A 185 PLAIN, FABRICATED FORM AS-DRAWN STEEL WIRE INTO FLAT SHEETS.
- c.DEFORMED-STEEL WELDED WIRE REINFORCEMENT ASTM A 49T FLAT SHEET.
- GDR SUPPORTISE NO.5TERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCING BARS AND NELDED WIRE REINFORCEMENT IN PLACE, MANEACTURE BAR SUPPORTS FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE ACCORDING TO CRESTS MANUAL OF STANDARD PRACTICE.
- e.FOR SLABS-ON-GRADE, USE SUPPORTS WITH SAND PLATES OR HORIZONTAL RUNNERS WIERE BASE MATERIAL WILL NOT SUPPORT CHAIR LEGS, CONCRETE BRICK MAY BE USED,
- FOR EXPOSED-TO-VIEW CONCRETE SURFACES, WHERE LEGS OF SUPPORTS ARE IN CONTACT WITH FORMS, PROVIDE SUPPORTS WITH LEGS WHICH ARE PLASTIC PROTECTED (CRS), CLASS 1) OR STAINLESS STEEL PROTECTED (CRS), CLASS 2).

CAST - IN - PLACE CONCRETE CONTINUED

- O.CEMENTITIOUS MATERIAL: USE THE FOLLOWING CEMENTITIOUS MATERIALS, OF THE SAME TYPE, BRAND AND SOURCE THROUGHOUT THE PROJECT.
- b PORTLAND CEMENT- ASTM CISO, TYPE I SUPPLEMENT WITH THE FOLLOWING; FLYASH ASTM C618, CLASS F
- C.NORMAL-WEIGHT AGGREGATES ASTM C33, GRADED SEE MIX DESIGN SECTION FOR MAXIMUM AGGREGATE SIZES.
- AGGREGATE SIZES.

 d.Fine AGGREGATE FREE OF MATERIALS WITH DELETERIOUS REACTIVITY TO ALKALI IN CEMENT.

 RIVATER ASTM CR4 AND POTABLE.
- T. AUPITALINGS).

 I. GENERAL PROVIDE ADMIXTURES THAT CONTAIN NOT MORE THAN O.IS PERCENT CHLORIDE IONS, AND NO CALCIUM CHLORIDE THYOCYANATES.

 II. AIR ENTRAINENT ADMIXTURE ASTM C94 TYPE A.

 II. WATER-REDUCING ADMIXTURE ASTM C94 TYPE A.
- IV. HIGH-RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER) ASTM C494 TYPE F OR TYPE G V.WATER-REDICINS, NON-CORROSIVE, NON-CHLORIDE ACCELERATIOR ADMIXTURE ASTIM C444 TYPE C OR E, AND NOT CONTAINING MORE CHLORIDE INST THAN ARE PRESENT IN MANICIPAL DRINKING MATER. THE ADMIXTRE HAMUPACTURE MOST HAVE LONG-TERM NON-CORROSIVE TEST DATA FROM THE INDEPENDENT TESTIME LABORATIORY (OF AT LEAST A YEARS DURATION) USING AN ACCEPTABLE ACCELERATED CORROSION TEST METHOD SUCH AS THOSE SURISE ELECTRICAL, POTENTIAL MEASURES,
- WATER-REDUCING, RETARDING ADMIXTURE ASTM C494 TYPE D.
- 12.VAPOR RETARDERS; PLASTIC VAPOR RETARDER ASTM E 1745 CLASS C NOT LESS THAN 10 MILS THICK, INCLUDE MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE- SENSITIVE JOINT TAPE.

- OEVAPORATION RETARDER WATERBORNE, MONOMOLECULAR FILM FORMINS, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE.

 b. ABSORPTIVE COVER AASHTO M 182 CLASS 2 BURLAP CLOTH MADE FROM JUTE OR KENAF, VEIGHINS APPROXIMATELY 9 OZ . / 50,70, NHEN DRY.
- TURE-RETAINING COVER ASTM CITI POLYETHYLENE FILM OR WHITE BURLAP-POLYETHYLENE d.WATER - POTABLE
- e.CLEAR, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND ASTM C309 TYPE I CLASS B
- F. SILENCURE ASTM COOP TYPE I, ID & II CLASS A & B ACRYLIC CURING & SEALING COMPOUND CONTAINING SILANE
- CONCRETE MIXTURES: PREPARE DESIGN MIXTURES FOR EACH TYPE OF STRENGTH OF CONCRETE, PROPORTIONED ON THE BASIS OF LABORATORY TRIAL MIXTURE OR FIELD TEST DATA, OR BOTH, ACCORDING TO ACI 301.
- ACCURATION TO ACI 301.

 APPOPORTION NORMAL-WEIGHT CONCRETE MIXTURE AS FOLLOWS, PREPARE DESIGN MIXES FOR EACH TITE AND STRENGTH OF CONCRETE BY EITHER LABORATORY TRIAL BATCH OR PIELD EXPERIENCE TETHODS AS SPECIFIED IN ACI 301, IF TRIAL BATCH METING USED, USE AN INDEPENDENT TESTING FACILITY ACCEPTABLE TO ARCHITECTRICINEER FOR REPRAINS AND REPORTING PROPOSED MIX TESTING FACILITY SHALL BY DE THE SAME AS USED FOR FIELD QUALITY CONTROL. TESTING FACILITY SHALL BY DE THE SAME AS USED FOR FIELD QUALITY CONTROL. TESTING FACILITY SHALL BY DE THE SAME AS USED FOR FIELD QUALITY CONTROL.
- ISUBMIT WRITTEN REPORTS TO ARCHITECT/ENGINEER AND STRUCTURAL ENGINEER OF EACH PROPOSED MIX FOR EACH CLASS OF CONCRETE AT LEAST IS DAYS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNIT. ARCHITECT/ENGINEER HAS REVIEWED MIXES.

15.DESIGN MIXES: PROVIDE NORMAL WEIGHT CONCRETE WITH THE FOLLOWING PROPERTIES, AS INDICATED ON DRAWINGS

	CLASS A6 BAG A/E STONE	CLASS C7 BAG A/E STONE
COARSE AGG. TYPE	CLASS A#8 OR #5 STONE	CLASS A#8 OR #5 STONE
FNE AGG. TYPE	#23 SAND	#23 SAND
FINE AGG. TO COARSE AGG. RATIO	35-45 %	35-45 %
TYPE 1 CEMENT	564	658
MAX. FLYASH REPLACEMENT *	15 %	15 %
WATER TO CEMENT RATIO	0.45	0.40
SLUMP MAX	5"	5"
MAX. SLUMP WITH MID RANGE WATER REDUCER	6"	6"
MAX. SLUMP WITH HIGH RANGE WATER REDUCER	7"	7"
AIR ENTRAINMENT	6.5 +/- 1.5%	6.5 +/- 1.5%

- ASTM C33 DESIGNATIONS
- I, ASIN COS DESIGNALIDAS.
 II, PROVIDE COARSE AGGREGATE #5 AGGREGATE TOP SIZE I ¼A AND #0 AGGREGATE (IA TOP SIZE,
 III,THE USE OF FLYASH IS PERMITTED BETWEEN THE MONTHS OF APRIL 15TH TO OCTOBER 15TH, TYPE C
 FLYASH OR OF, SHALL BE USED.
- 6.ADMIXTURE: USE MID RANGE WATER-REDUCER OR HIGH RANGE WATER-REDUCER ADMIXTURE IN CONCRETE AS REQUIRED FOR PLACEMENT AND WORKABILITY.
- ause non-chloride accelerating admixture in concrete placed in ambient temperatures below 50 degrees F.
- BELOW SO DEGREES F.

 DUES AIR-RINAINENT ADMIXTURE IN EXTERIOR EXPOSED CONCRETE, UNLESS OTHERWISE INDICATED, ADD AIR-ENTRAINENT ADMIXTURE AT MANUFACTURER'S PRESCRIBED RATE TO RESULT IN CONCRETE AT POINT OF PLACEMENT HAVING TOTAL AIR CONTENT WITH IN THE TOLERANCE OF PLUS OR MINIST 1% PERCENT, OTHER CONCRETE NOT EXPOSED TO FREEZING, THAVING, OR HYDRAULIC PRESSURE 2 PERCENT OF PRESCRIPT OF PRESCRIPT AND PRODUCT OF PRODU
- d.CEMENTITIOUS MATERIALS LIMIT PERCENTAGE, BY WEIGHT, OF CEMENTITIOUS MATERIALS OTHER THAN PORTLAND CEMENT IN CONCRETE AS FOLLOWS: FLY ASH 15 PERCENT MAX

- O.EXPANSION AND ISOLATION JOINT FILLER STRIPS ASTM DITSI -ASPHALT SATURATED CELLULOSIC FIBER;
- FIDEN,
 INVAIRESTOPS PROVIDE TYPES AS NOTED ON PLAN FOR SPECIAL APPLICATIONS PERFORMED, FLAT,
 DAMBELL OR CENTER BUB TYPES AT CONSTRUCTION JOINTS AND OTHER JOINTS AS INDICATED.
 BUBBERN WATERSTOPS CORPS OF ENGINEERS CRD- C 513, POLYVINYL CHLORIDE WATERSTOPS CORPS OF ENGINEERS CRD- C 512.
- NON-SHRINK GROUT CRD-C 621 FACTORY PRE-MIXED GROUT, NON- METALLIC
- BIBONDING COMPOUND POLYVINYL ACETATE OR ACRYLIC BASE. PRODUCTS SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
- I. POLYVINYL ACETATE (INTERIOR ONLY);

- 1. FOLYMINT. ACETATE (INTERIOR OBLY):
 1. EUCO PELD EUCLID CHEMICAL CO;
 1. EVERVELD L & M CONSTRUCTION CHEMICALS
 1. ACRYLIC OR STYRENE BUTADIBLE
 1. EVERDOND L & M CONSTRUCTION CHEMICALS
 1. EVERDOND L & M CONSTRUCTION CHEMICALS
 11. SONOCRETE SONDERONT
 11. ACRYLIC BONDORETE THE BURGE CO
 1. CEPIL TOTAL BUTADIAL CO.
- iv. SBR LATEX EUCLID CHEMICAL CO.
- V.DARAWELD C W R GRACE
- ACRYL SET MASTER BUILDERS VIL INTERLOK - W.R. GRACE
- ILEPOXY ADHESIVE ASTM COOI TWO-COMPONENT MATERIAL SUITABLE FOR USE ON DRY OR DAMP SURFACES, PROVIDE MATERIAL TYPE, GRADE AND CLASS TO SUITE PROJECT REQUIREMENTS,
- IB JOINTS O.GENERAL. CONSTRUCT JOINTS TRUE TO LINE WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE.
- CONCRETE. DISTRIBUTION JOINTS: INSTALL SO STRENGTH AND APPEARANCE OF CONCRETE ARE NOT IMPAIRED, AT LOCATIONS INDICATED OR AS APPROVED BY ARCHITECT.

 CONTRACTION JOINTS IN SLAB-CH-GRADE FORM PEARENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED, CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST OSE-PARRIED CONCRETE THICKNESS AS FOLLOWS.
- L SAVED JOHNS FORM CONTROL INIGATED AS POLLOWS:

 1. SAVED JOHNS FORM CONTRACTION JOHNS WITH POWER SAWS EQUIPPED NITH SHATTERFROOF
 ABRASIVE OR DIAMOND. RINAMED BLADES, CUT I/O INCH MIDE JOHNS INTO CONCRETE WERN CUTTING
 ACTION HILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE SURFACE AND BEFORE CONCRETE
 DEVELOPS RANDOM CONTRACTION CRACKS. ILISOLATION JOINTS IN SLAB-DO-NGRADE, AFTER REMOVING FORMORK, INSTALL JOINT-FILLER STRIPS AT SLAB JUNCTIONS WITH VERTICAL SURFACES, SUCH AS COUNTY PEDESTALS, FOADDATION WALLS, GRADE BEATH, AND OTHER LOCATIONS, AS INDICATED.

CAST - IN - PLACE CONCRETE CONTINUED

- IR CONCRETE PLACEMENT, BEFORE PLACING CONCRETE, VERIFY THAT INSTALLATION OF FORMACHIC, REINFORCEMENT, AND EMBEDDED ITEMS IS COMPLETE AND THAT REQUIRED INSPECTIONS HAVE BEEN PERFORMED. DEPOSIT CONCRETE CONTINUOLY IN ONE LAYER OR IN HORIZONTAL LAYERS OF SUCH THICKNESS THAT NO NEW CONCRETE WILL BE PLACED ON CONCRETE THAT HAS HARDENED ENCHH TO CAUSE SEAN OR PLAYES OF MEANESS. IN SECTION CANNOT BE PLACED CONTINUOLY, PROVIDE CONSTRUCTION JOINTS AS INDICATED, DEPOSIT CONCRETE TO AVOID SEGRESATION CONSCILIANT PLACED CONCRETE WITH MECHANICAL VIRENTIANS COMPRISED TO ACID TO ACID SO.
- a.COLD WEATHER PLACEMENT COMPLY WITH ACI 306.1. b.HOT WEATHER PLACEMENT - COMPLY WITH ACI 301
- 20. SLAB FINISH TOLERANCE; LOCAL FLATNESS/LEVELNESS TOLERANCES; ALL FLOORS SHALL CONFORM TO THE FOLLOWING ACI F-NAMBER REQUIREMENTS: A) SPECIFIED OVERALL VALUE; FF-25/FL-20; B) MINIMAN LOCAL VALUE; FF-20/FL-15 a.AT CONSTRUCTION JOINTS IN ALL AREAS, A IO-FOOT STRAIGHT EDSE CENTERED ON THE CONSTRUCTION JOINT SHALL NOT HAVE A GAP OF MORE THAN 1/8 INCH AT CENTER (JOINT 100 LOW) OR EITHER END (JOINT 100 HIGH).
- GENERAL CONFORMITY TO DESIGN GRADE: THE FLOOR SHALL FALL WITHIN +/- ½ INCH OF THE FINISHED FLOOR ELEVATION SHOWN ON THE PLANS.
- FLOOR ELEVATION SHOWN ON THE PLANS.

 CFLOOR TOLERANCE MEASUREPHETS FLOOR FLATHESS AND LEVELNESS TEST ON THE FLOOR SHALL BE COPOLITED IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN ASTIM E 195-87, PLOOR TOLERANCE TOLERANCE TOLERANCE TOLERANCE TOLERANCE AND CONTROL OF THE PROVISION OF THE TOLERANCE TOLERANC
- d.WEEKENDS AND HOLIDAYS SHALL BE IGNORED WHEN COMPUTING THE TESTING AND REPORTING DEADLINES SPECIFIED ABOVE.
- DEADLINES SPECIFIED ABOVE.

 REPMEDT FOR OUT-OF-TOLERANCE WORK, ALL FLOOR SECTIONS MEASURING AT OR ABOVE BOTH OF THE SPEZIFIED MINIMAM LOCAL F-INAMBERS SHALL BE ACCEPTED FOR TOLERANCES COMPLIANCE AS CONSTRUCTED ALL FLOOR SECTIONS MEASURING BELION BETHER (OR BOTH) OF THE SPECIFIED MINIMAM LOCAL F-INAMBERS SHALL BE REMOVED AND REPLACED (IN THE CASE OF SLABS-ON-GRADE), OR GROWND AND/OR RE-TOPPED (IN THE CASE OF ELEVATED SLABS), IND REMOBILES FOR SHAMINIMAM LOCAL F-INAMBER SECTIONS OTHER THAN REPLACEMENT OF SLABS-ON-GRADE, AND GRINDING OR RE-TOPPING OF ELEVATED SLABS HILL BE FERMITTED, FOR THE PIRPOSES OF THIS PRABASHAM, A FLOOR SECTION SHALL BE ANY RECTANSULAR AREA BOUND BY COLUMN MOVOR HALF-COLUMN LINES.

21. FINISHING FORMED SURFACES

- AND AND TOPICE DANAGES ON ASCAST CONCRETE TEXTIRE IMPARTED BY FORM- FACING MATERIAL WITH TIE HOLES AND DEFECTS REPAIRED AND PATCHED, REMOVE FINS AND OTHER PROJECTIONS THAT EXCEED SPECIFIED LIMITS ON FORMED-SURFACE IRREGULARITIES, APPLY TO CONCRETE SURFACES NOT EXPOSED TO PUBLIC VIEW.
- EXPOSED TO PUBLIC VIEW.

 SMOOTH-FORUMED FINISH. AS-CAST CONCRETE TEXTURE IMPARTED BY FORM-FACINS MATERIAL,
 ARRANGED IN AN ORDERLY AND SYMMETRICAL MANNER WITH A MINIMAL OF SEAMS, REPAIR AND
 ARRANGED IN AN ORDERLY AND SYMMETRICAL MANNER WITH A MEDICAL PROPERTY.

 ARRANGED IN AN ORDER OF STATEMENT OF STATEM
- RUBBED FINISH: APPLY THE FOLLOWING TO SMOOTH-FORMED FINISHED AS- CAST CONCRETE WHERE INDICATED,
- SMOOTH-RUBBED FINISH: NO LATER THAN ONE DAY AFTER FORM REMOVAL, MOISTEN CONCRET URFACES AND RUB WITH CARBORUNDUM BRICK OR ANOTHER ABRASIVE UNTIL PRODUCING A UN OLOR AND TEXTURE. DO NOT APPLY CEMENT GROUT OTHER THAN THAT CREATED BY THE RUB
- PROCESS.

 IL SEQUIT-CLEAVED FINISHES, INET CONCRETE SURFACES AND APPLY SEQUIT OF A CONSISTENCY OF THICK PAINT TO COAT SURFACES AND FILL SMALL HOLES, MX ONE PART ROSTLAND CEPTIT TO ONE AND ONE-HALP PARTS FINE SMAN PRINT A IN BANTINES OF BOXIDING ADMINITURE AND MATTER, AND PAINT AND PAINT PORTLAND CEPTIT IN AVOINTS DETERMINED BY TRIAL PAICHES SO COLOR OF DRY CROOTINE MATCH ADMINISTERS, SCRIB GROUT IN TO VOIDS AND REMOVE EXCESS GROUT, INVENT GROUT IN THE SEQUIT PAINT OF THE SECOND THE MATCH ADMINISTRATES SCRIB GROUT IN TO VOIDS AND REMOVE EXCESS GROUT, INVENT GROUT IN THE SECOND THE SECOND STRATE WITH CLEAN BURLAP AND KEEP SURFACE DAMP BY FOOS SPRAY FOR AT LEAST 38 HOUSES.
- 36 HOUNS.

 ARELATED INFORMED SURFACES. AT TOPS OF WALLS, HORIZONTAL OFFSETS, AND SIMILAR UNFORMED SURFACES ADJACENT TO FORMED SURFACES, STRIKE OFF SMOOTH AND FINISH WITH A TEXTURE MATCHING ADJACENT FORMED SURFACES. CONTINUE FINIL SURFACE TREATMENT OF FORMED SURFACES UNFORMET SURFACES.
- 22. FINISHING FLOORS AND SLABS; COMPLY WITH ACI 302 IR RECOMMENDATIONS FOR SCREEDING, RESTRAIGHTENING, AND FINISHING OPERATIONS FOR CONCRETE SURFACES. DO NOT WET CONCRETE SURFACES.
- AS SCRATCH FINISH, WILLE STILL PLASTIC, TEXTURE CONCRETE SURFACE THAT HAS BEEN SCREEDED AND BULL-FLOARED OR DARBIED. USE STIFF BRUSHES, BROOMS, OR RAKES TO PRODUCE A PROFILE AMPLITUDE OF INCH IN 1 DIRECTION. APPLY SCRATCH FINISH TO SURFACES INDICATED AND TO RECEIVE CONCRETE FLOARING TOPPINGS OR TO RECEIVE MORTAR SETTING BEDS FOR BONDED CEMENTICUS FLOAR FINISH.
- CETERITINOS FLOOR PINSHES.

 D.FLOAT FINSH. CONSOLIDATE SURFACE WITH POYER-DRIVEN FLOATS OR BY HAND FLOATING IF AREA IS SHALL OR INACCESSIBLE TO POYER DRIVEN FLOATS, RESTRAIGHTEN, OUT DOWN HIGH SPOTS, AND FILL LOVI SPOTS, REPEAT FLOAT PASSES AND RESTRAIGHTENIS UNTIL SURFACES IS LEFT WITH A WINFORM, SOOTH, GRANLAR TEXTRE. A PRYLY FLOAT FINISH TO SURFACES TO RECEIVE TROYEL FROM THE PROPERTY OF THE
- ROOFING, OR SAND-BED TERRAZZO.

 C. TROYNEL FINISH, AFTER APPLYING FLOAT FINISH, APPLY FIRST TROYELING AND CONSOLIDATE
 CONCRETE BY HAND OR POWER-FORING TROYEL. CONTINUE TROYELING PASSES AND RESTRAIGHTEN
 UNTL SURFACE IS FREE OF TROYEL MARKS AND UNFORM IN TEXTURE AND APPEARANCE. CRIND
 SHOOTH ANY SIFFACE DETECTS THAT YOUND TELEGRAPH TROUGH APPLIED COATINGS OR FLOOR
 RESILIENT FLOORING, CARPET, AND CERAMIC OR CHARRY TILE SET OVER A CLEANAGE TO PROVING
 RESILIENT FLOORING, CARPET, AND CERAMIC OR CHARRY TILE SET OVER A CLEANAGE TO PROVING
 PAINT, OR ANOTHER THIN-FLH-RINGH COATINGS SYSTEM FRISH AND TREASES SURFACE SO GAP AT
 ANY POINT BETWEEN CONCRETE SURFACE AND AN UNLEVELED, FREESTANDING, IO-POOT-LONG
 STRAIGHTEDOR RESILIES OF 21 HIGH SPOTS AND PLACED ANYWERE ON THE SURFACE DOES NOT
 EXCEED 3/16 INCH.

 LIROYAL AND FIRE-BROOM FINISH, APPLY A FIRST TROYER ENGINE OF
- EXCECT 9/16 INCH.

 A TROVEL AND PINE-BROOM FINSH. APPLY A FIRST TROVEL FINISH TO SURFACES WHERE CERAMIC OR
 OUARRY TILE 19 TO BE INSTALLED BY ETHER THICKSET OR THIN-SET METHOD, WHILE CONCRETE 19
 STILL PLASTIC, SLIGHTLY SCARPET SURFACE WITH A FIRE BROOM COMPLY WITH FLATNESS AND
 LEVELNESS TOLERANCES FOR TROVEL FINISHED FLOOR SURFACES.
- e.BROOM FINISH: APPLY A BROOM FINISH TO EXTERIOR CONCRETE PLATFORMS, STEPS, AND RAMPS AND ELSEWHERE AS INDICATED.
- 23. CONCRETE PROTECTING AND CURING: PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES, COMPLY WITH ACI 306 I FOR COLD-NEATHER PROTECTION AND ACI 30 FOR HOT-NEATHER PROTECTION DURING CURING.

 ELYAPORATION RETARDER, APPLY EVANORATION RETARDER TO UNFORMED CONCRETE SURFACES IF HOT, DRY, OR NINDY CONDITIONS CAUSE MOISTURE LOSS APPROACHING O2 LIS-SOFT, X H DEFORE AND DURING FINISHING PREFATIONS, APPLY ACCORDING TO MANAPACTURERS MITTER INSTRUCTIONS AFTER PLACING, SCREEDING, AND BULL FLOATING OR DARBYING CONCRETE, BUT BEFORE FLOAT FINISHING.
- FINISHINS,

 BURIE CONCRETE ACCORDING TO ACI 3001, BY ONE OR A COMBINATION OF THE FOLLOWING METHODS,

 I. MOIST CURING- KEEP SURFACES CONTINUOUSLY MOIST FOR NOT LESS THAM SEVEN DAYS,

 II. MOISTURE-RETAINING-COVER CURINGS- COVER CONCRETE SURFACES WITH MOISTURE-RETAINING COVER

 FOR CURING CONCRETE, PLACED IN MOIEST PRACTICABLE MOTH, WITH SIDES AND BNDS LAPPED AT

 LEAST 12 INCHES, AND SEALED BY MATERIANOF TAPE OR ADVESTME. CURF FOR NOT LESS THAM SEVEN

 DAYS, IM-MEDIATELY REPAIR ANY HOLES OR TEARS DURING CURING PERIOD USING COVER MATERIALS

 AND NATERRACOFT TAPE.
- ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS, RECOAT AREAS SUBJECTED TO HEAVY RAINFALL WITHIN THREE HOURS AFTER INITIAL APPLICATION, MAINTAIN CONTINUITY OF COATING AND REPAIR DAMAGE DIRING KIRING FERIOD AFTER CURING PERIOD HAD ELAPSED, REMOVE CURING COMPOUND WITHOUT DAMAGINS CONCRETE SURFACES BY METHOD RECOMMENCED BY CURING COMPOUND MANUFACTURER INLESS MANUFACTURER CERTIFIES CURING COMPOUND WILL NOT INTERFERE WITH BONDING OF FLOOR COVERING USED ON PROJECT.
- V. CIRING AND SEALING COMPOUND. APPLY INIFORMLY TO FLOORS AND SLABS INDICATED IN A COMINIOUS OPERATION BY POWER SPRAY OR ROLLER ACCORDING TO MANEACTIMER'S NOTITED INSTRUCTIONS. RECOAT AREAS SUBJECTED TO HEAVY RAINFALL NITHIN TREE HOUSE AFER INITIAL APPLICATION, REPEAT PROCESS 24 HOUSE LATER AND APPLY A SECOND COAT, MAINTAIN CONTINUITY OF COATING AND REPEAT PROCESS 24 HOUSE LATER AND APPLY A SECOND COAT, MAINTAIN CONTINUITY OF COATING AND REPEAT PROCESS.
- 24. CONCRETE SURFACE REPAIRS, DEFECTIVE CONCRETE REPAIR PATCH DEFECTIVE AREAS WEN APPROVED BY ARCHITECT, REMOVE AND REPLACE CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO ARCHITECTS APPROVAL

CAST - IN - PLACE CONCRETE CONTINUED

- 25. OJALITY CONTROL TESTING DURING CONSTRUCTION Q.EMPLOT A TESTING LABORATORY TO PERFORM TEST AND TO SUBMIT TEST REPORTS, THE INSPECTOR SHALL BE ACI CERTIFIED LEVEL 1.
- SHALL BE ACTOENTHED LEVEL I.

 SAMPLING AND TESTING FOR GUALITY CONTROL DURING PLACEMENT OF CONCRETE MAY INCLUDE THE FOLLOWING, AS DIRECTED BY ASCHITECT/ENGINEER.

 SAMPLING FREEH CONCRETE ASTM CITE. EXCEPT MODIFIED FOR SLUMP TO COMPLY WITH ASTM C44.
- I. SLIMP, ASTM CIAS, ONE TEST AT POINT OF DISCHARGE FOR EACH TIME TEST CYLINDERS ARE TAKEN. ADDITIONAL TESTS WEN CONCRETE CONSISTENCY SEMS TO HAVE CHANGED.

 II. AIR CONTENT: ASTM CITS, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE;
 ASTM C231 PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE; ONE FOR EACH TIME TEST CYLINDERS ARE TAKEN.
- III.UNIT WEIGHT: ASTM C29 BULK DENSITY (UNIT WEIGHT).
- CONCRETE TEMPERATURE: TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEGREE F AND BELOW, AND WHEN 80 DEGREE F AND ABOVE; AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS ARE MADE. II. COMPRESSION TEST SPECIMEN. ASTM C3I, ONE SET OF 4 STANDARD CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST, UNLESS OTHERWISE DIRECTED, MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS EXCEPT WHEN FILED CURE TEST SPECIMENS ARE REQUIRED.
- III. COMPRESSIVE STRENGTH TESTI. ASTM C34, ONE SET FOR EACH DAY'S POUR EXCEEDING S CULYDS, PLUS ADDITIONAL SETS FOR EACH SO CYTO, OVER AND ABOVE THE FIRST 25 CULYDS, OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY; ONE SPECIMEN TESTED AT 1 DAY'S, TWO SPECIMENS TESTED AT 28 DAYS, AND ONE RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED,
- INTERIOR SLABS: ONE TEST SPECIMEN SET PER TWO BAYS OF FLOOR SLAB. NO LESS THAN ONE SET PER POUR.
- II. WEN FREQUENCY OF TESTING WILL PROVIDE LESS THAN 5 STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, CONDUCT TESTING FROM AT LEAST 5 RANDOWLY SELECTED BATCHES FROM EACH BATCH IF FEVER THAN 5 ARE USED.
- FEINER THAN 5 ARE USED.

 IN IMPEN TOTAL QUANTITY OF A GIVEN CLASS OF CONCRETE IS LESS THAN 50 CUITDS, STRENSTH TEST MAY BE MAINED BY ARCHITECT/ENGINEER IF, IN HIS JUDGMENT, ADEQUATE EVIDENCE OF SATISFACTORY STRENGTH IS PROCUIDED.

 IN. IMPEN STRENGTH OF FIELD-CURED O'LLINGERS IS LESS THAN 185 FERCENT OF COMPANION LABORATORY CURED CYLLINGERS, ENAULANTE CURENT O'PERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTINS AND CURING THE IN-PLACE CONCRETE.
- V-STERISTH LEVEL OF CONCRETE WILL BE CONSIDERED SATISFACTORY IF AVERAGES OF SETS OF THERE CONSECUTIVE STERISM IT TEST RESILTS FOULD. OF EXCEPT THE SPECIFIED COMPRESSIVE STERISTH, AND NO INDIVIDUAL STRENISH TEST RESILT FALLS BELOW SPECIFIED COMPRESSIVE STRENISH BY MORE THAN 4000 PSI.
- I. FLEARAL STRENGTH OF CONCRETE. ASMI C18, THE FLEARAL STRENGTH OF CONCRETE USED FOR CONCRETE SLAB-ON- GRADE SHALL BE ESTABLISHED PRIOR TO START OF CONCRETE PLACEMENT OFFRATIONS.
- ONE TEST SPECIMEN SET PER FOR BAY'S OF FLOOR SLAB, NO LESS THAN ONE SET PER FOUR FOUR FOUR FOR BEAMS PER SPECIMEN SET MOLD AND STORE FOR LAB CURING. TEST ONE AT 26 DAYS, THO AT 36 DAYS, AND ONE SPARE.
- DATS, AND ONE SYANC.

 STRENGTH LEVEL OF CONCRETE WILL BE CONSIDERED SATISFACTORY IF AVERAGES OF SETS OF

 STRENGTH LEVEL OF CONCRETE WILL BE CONSIDERED SATISFACTORY IF AVERAGES OF SETS OF

 THE STRENGTH STRENGTH TEST RESULT FEILED SELON SPECIFIED FLEXARAL STRENGTH BY MORE

 THAN SO PSI.

 THAN SO PSI.

 THAN SO PSI. LCONCRETE FLOOR FLATNESS AND LEVELNESS

- IL TWO (2) DEVICES ARE USED TO RIN TEST. TYPE I DEVICE DIPSTICK AND TYPE II DEVICE NIFELL MAKE SIKE THAT THE DEVICE BRIND ISSUE IN AS BEEN RECENTLY CALIBRATED INTININ TIRSE MONTHS, OWING TO THE MATHEMATICS INVOLVED IN F-INARERS, INSTRUMENT INACCURACIES WILL ALWAYS RESULT IN A LOWERING OF REPORTED F-INAMERS.

 IL TWO (2) LAYOUT PATTERN PER ASTM BIDS-01. 45 DEGREE ANSLES TO THE LONGEST BOUNDARY (X PATTERN). RESIDENT IN A LESS TINE OF DRIN PATTERN, MBST DE USED FOR NARROW WITH THE FOR SILABOUTH FLOOR SILABOUTH FLOOR SILABOUTH FLOOR SILABOUTH FLOOR SILABOUTH FLOOR SILABOUTH FLOOR SILABOUTH SILABOUTH FLOOR SILABOUTH FLOOR SILABOUTH SILABOUT
- V.NONDESTRUCTIVE TESTING; IMPACT HAMMER, SONOSCOPE, OR OTHER NONDESTRUCTIVE DEVICE MAY BE PERMITTED BUT SHALL NOT DE USED AS THE SOLE BASIS FOR ACCEPTANCE OR REJECTION
- FERMITTED BUT SHALL NOT BE USED AS THE SOLE BASIS FOR ACCEPTANCE OR REJECTION.

 A DODITIONAL TESTS THE TESTISMS SERVICE WILL MAKE ADDITIONAL TEST OF IN-PLACE CONCRETE
 WENT REST RESULTS INDICATE SPECIFIED CONCRETE STRENGTHS AND OTHER CHARACTERISTICS HAVE
 CONDUCT TEST STORY OF THE METHOD SAS THE STRENGTHS AND OTHER CHARACTERISTICS HAVE
 CONDUCT TESTS TO DETERMINE ADPENDATO FO CONCRETE BY CORED OF LINESESSING SHEW HIT ASTM C42, OR BY OTHER METHODS AS DIRECTED. CONTRACTOR SHALL PAY FOR SUCH TEST NEN
 MACCEPTARIE CONCRETE IS VERIFIED.

CARE AND MAINTENANCE OF CONCRETE PAVEMENT

HAIT ON SES DO NOT RECORNE THE VEED FOR MAINTENANCE AND MONITORING OF EXTERIOR CONCRETE PROCESSING HIS THE PRESENCE AND SERVER OF SERVER OF THIS POINT EXPRESSIVE AND SERVER OF SE

IT IS RECOMMENDED TO INSPECT EXTERIOR CONCRETE PRODUCTS IN THE SPRING AND BEFORE MINTER EACH YEAR. THIS MILL ALLOW THE INSPECTOR TO DETERMINE WHAT REPAIRS AND OR TREATMENTS NEED TO BE PERFORMED TO THE SURFACE OF DREVENT HERITER DETERMINED.

ROJINE SERVICE CONDITIONS THAT AFFECT MONITORING AND MAINTENANCE INCLUDE EXPOSURE TO ASSERBISHOW CHEMICALS, CYCLES OF PREEZING AND THANNIS, AND TRAFFIC LOADING MOST SUPPLACE DETERIORATION IS CARGED BY THE LEG OF DECIMIS CHEMICALS AND BY MODISTRE INTENDED. AN IB EAST SERVICE OF DECIMIS CHEMICALS AND BY MODISTRE INTENDED. AND BE A SERVICE PROJECT AND AND ADEQUATE CURING BEFORE THE SURFACE IS EXPOSED TO DECIMIS CHEMICALS AND TREEZET-THAN ACCURE IS ESSENTIAL. IF CONCRETE STARTS TO SHOW SIGNS OF INADEQUATE CURRING THE SURFACE IS AND ADMINISTORY OF MOST INCOME. SURFACE SHALLING FROM PREEZET-THAN ACCURE IS ESSENTIAL. IF CONCRETE STARTS TO SHOW SIGNS OF INADEQUATE CURRING AND ADMINISTORY CONCRETE. SO MORE POSITIVE PROTECTION IS INCESSARY, PRIOR TO ANY APPLICATION OF SEALER, THE CONCRETE SHOULD BE CLEAPED AND ALLOWED TO DRY FOR 24 HOURS AT A TEMPERATURE ABOVE OD PRESENTS, SOME OLD CONCRETE ISSENTIAL SHOWN AND ADMINISTRATIVE ABOVE AND PREPARATION OF THE SEPTIME SHOWN AND ADMINISTRATIVE ADMINISTRATIVE ADMINISTRATIVE AND ADMINISTRATIVE A

JOINTS IN CONCRETE PARKING LOTS ARE FREQUENTLY SEALED, BUT IN MAIN' SUCCESSFULLY PERFORMING PARKING LOTS THE JOINTS ARE NOT SEALED, CLOSE JOINT SPACING AND PROPER DRAINAGE WILL MINIMIZE THE INFILITATION OF WATER TRADICH, JOINTS INDEED JOINTS HAVE PARKET PROMISS OF INSEALED, JOINTS INDEED MOST CONDITIONS. IN THE EVENT THAT PLOOR SUBSOIL CONDITIONS AND FEAVY TRUCK TRAFFIC WARRANT EXTRA PRECAUTIONS AND COSTS, EITHER COLLP-POARED OR HOT -POARED SEALING MATERIALS CAN BE USED, PREFORMED MATERIALS, COMMON IN HIGHMAY PAVEMENTS, ARE SELDON USED IN PARKING LOTS, PRIOR TO SEALING, THE JOINT OPENING SHOULD BE THOROUGHLY CLEANED TO REMOVE ALL FOREIGN MATTERIALS. CONTACT FACES OF THE JOINT SHOULD BE CLEANED TO REMOVE ALL FOREIGN MATTERIAL ALL CONTACT FACES OF THE JOINT SHOULD BE CLEANED TO REMOVE LOTS OF SHOULD BE SWIFTED SHALING MATERIALS. THE MATTERIAL SHALL DO THAT SEALANTS WILL NOT BE SPILLED ON INFORMATION SHALL NOT BE SPILLED ON EMPOSED CONCRETE. ANY EXCESS OF BE EXPRISED THE MEDITION MEDITAL PROMISED AND SHALL BY BE REMOVED IN MEDITAL TAX AND THE PARKENETS SHAFFOR CLEANED, CRACK CAN BE ROUTED AND SHALLD, THIS WILL REDUCE CONCRETE SPALLING AT THE CRACK FACES AND PREVENT MATER PENETRATION.

nsulting, LLC ineers & Surveyors ar Road, Suite #51 me. Indiana 46825 50.484.9900 phone 260.484.9980 fax www.4site.biz

Consulting, Joe C Fort ξ. ξ.







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Performed for:



Indiana

City pia Colun **6**

For

Specifications

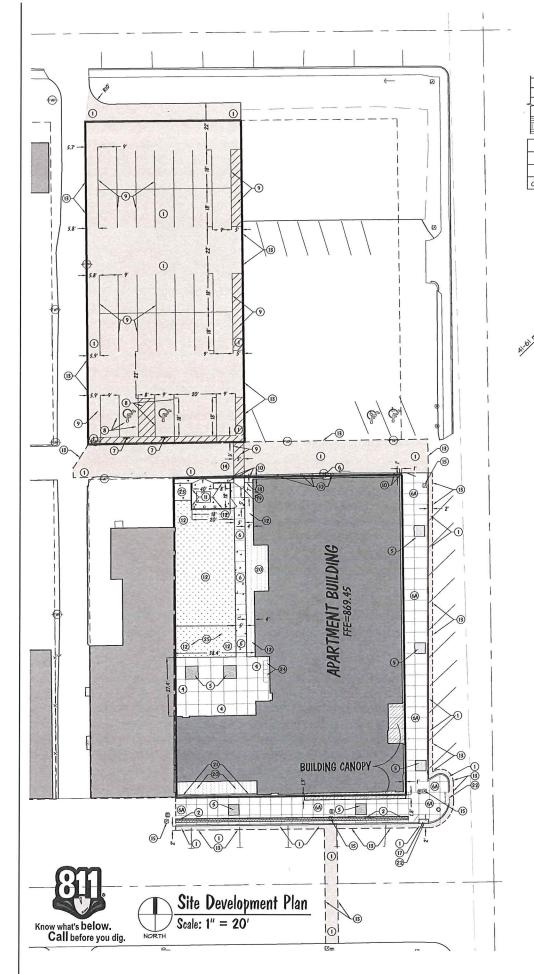
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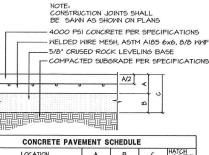
Drawing Revisions

Commission Number 182297

> Date February 8th, 2019

Title Site Specifications

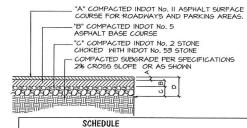




CONCRETE PAVEMENT SCHEDULE					
LOCATION	Α	В	C	HATCH SYMBOL	
DUMPSTER PAD	8"	6"	14"		
CONCRET PAVEMENT/PLAZA	6"	6"	12"		

Concrete Pavement Detail Not To Scale

Not To Scale

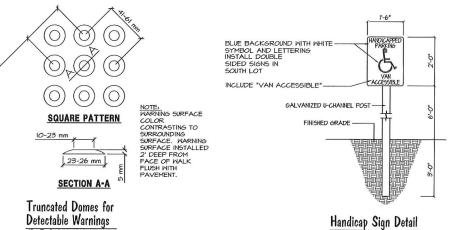


Α	В	C	D	HATCH SYMBOL
15"	3'	8*	125	
l.	6'	10"	17*	XXX
	15"	15' 3'	15' 3' 8'	15' 3' 8' 125'

THE USE OF RECYCLED CONCRETE PRODUCTS CONFORMING TO THE SPECIFIED AGGREGATE GRADATION REQUIREMENTS WILL BE PERMITTED OUTSIDE OF THE COLUMBIA CITY RIGHT **THE USE OF RECYCLED ASPHALT PAVEMENT PRODUCTS

CONFORMING TO THE SPECIFIED AGGREGATE GRADATION REQUIREMENTS WILL BE PERMITTED OUTSIDE OF THE COLUMBIA CITY RIGHT OF WAY.

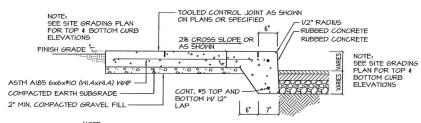
Asphalt Pavement Detail Not To Scale



SEE SITE GRADING PLAN AS SHOWN ON PLANS OR SPECIFIED FOR TOP & BOTTOM CURB ELEVATIONS 2001 ASTM A185 6x6x#10 (MI.4xMI.4) MMF COMPACTED EARTH SUBGRADE 2" MIN, COMPACTED GRAVEL FILL -

> WHERE SIDEWALK TERMINATES ALONG A BUILDING FOUNDATION A 1/2" THICK PRE-MOLDED EXPANSION JOINT SHALL BE INSTALLED BETWEEN THE WALK AND BUILDING, EXPANSION JOINTS SHALL ALSO BE PLACED AT THE BEGINNING AND BUILDING, EXPANSION JOINTS SHALL ALSO BE PLACED SHALL BE SEALED IN ACCORDANCE WITH PROJECT SPECIFICATIONS,

Concrete Sidewalk Detail



NOTIE: WHERE SIDEWALK TERMINATES ALONG A BULDING FOUNDATION, A 1/2" THICK PRE-MOLDED EXPANSION JOINT SHALL BE INSTALLED BETWEEN THE WALK AND BULDING EXPANSION JOINTS SHALL ALSO BE PLACED AT THE BEGINNING AND END OF A DAYS POUR.

Concrete Curb & Walk Detail

GENERAL NOTES:

- , THE CONTRACTOR SHALL BISINE THE CONDITION OF ALL EXISTING IMPROVEMENTS INDICATED TO REMAIN. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROFED FOR EXISTING UTILITY LINES, AND EISURE THE PROPER FINCTIONING OF THESE SERVICES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SIGNAGE AND BARRICADES FOR THE PROTECTION AND SAFETY OF VEHICULAR AND PEDESTRIAN TRAFFIC.
- 3. ALL BACKFILL AND FILL MATERIALS BENEATH LAWIS, PAYED AREAS, AND BUILDINGS SHALL COMPLY WITH PROJECT SPECIFICATIONS.
- EXISTING TREES, VEGETATION AND LANDSCAPING AREAS NOT INDICATED TO BE REMOVED SHALL BE PROTECTED FROM DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES DURING CONSTRUCTION.
- 5. POURED-IN-PLACE SITE CONCRETE SHALL HAVE A MINIMM COMPRESSIVE STRENGTH OF 4000 PSI, UNLESS OTHERWISE SPECIFIED.
- 7. PROPOSED PAYEMENT ELEVATIONS ARE CRITICAL TO MAINTAINING DRAINAGE PATTERIS. ALL ELEVATIONS MUST BE WITHIN TOLERANCES STATED IN PROJECT SPECIFICATIONS AND WILL BE INSPECIED THROUGHOUT, AND AT THE COMPLETION OF, COMSTRUCTION. COORDINATE INSPECTIONS WITH BUSINEER AND SURVEYOR RESPONSIBLE FOR CONSTRUCTION STAKING PRIOR TO INSTALLATION OF ASPIALT PAYEMENT SECTION.
- 8. FINISH FLOOR ELEVATIONS SHOWN ON THE EXISTING BUILDING ARE FOR REFERENCE ONLY, AND SHOULD NOT BE USED AS A PROJECT BENCHMARK. THE ESTABLISHED PROJECT BENCHMARK AND ITS LOCATION NOTED ON THE CONSTRUCTION DOCUMENTS SHALL BET THE ONLY ACCEPTABLE BENCHMARK FOR THE REPOSE OF IRST CONSTRUCTION.
- NHERE SIDEMALK IS CONSTRUCTED IMMEDIATELY ADJACENT TO CURB, THE SURFACE OF THE SIDEMALK SHALL BE CONSTRUCTED 1/2 INCH HIGHER THAN THE TOP OF THE CURB.
- IO. TRANSVERSE JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/2 INCH OF SPACING AS INDICATED OR DIRECTED.
- II. COST OF TRANSVERSE PREFORMED JOINT FILLER TO BE INCLUDED IN CONTRACT PRICE FOR CONCRETE SIDEWALK
- 12. COMPACTED SIB-GRADE: SIB-GRADE INDER ALL CIRB, SIDEMALKS, AND DRIVES SHALL BE COMPACTED IN ACCORDANCE INTH SECTION 2010 OF THE STANDARD SPECIFICATIONS, SPECIAL ATTENTION SHALL BE PAID TO UTILITY TREICHES, THE IMPERION OF INCLUDING SPECIAL SHALL COMPLY NITH THE DEISITY REGUREPHENTS OF THE CONTRACT INVEDIALLY PRIOR TO PLACING THE MATERIAL THEREOIL ALL SOFT, THEIDING, OR OTHER INSTITUDIE THATERIAL, INTICH CANNOT BE COMPACTED SATISFACTORILY SHALL BE REPOYED OR BROKEN OFF AT LEAST SIX (8) INCLES BELOW THE SIB-GRADE SURFACE. BIY NOLES OR DEPRESSIONS FEST LINK FROM THE REPOYAL OF INSTITUTE HATERIAL BE FILLED WITH SATISFACTORY MATERIAL. AND COMPACTED TO CONFORM WITH THE SURROLANDING SUB-GRADE SURFACE.
- 13. DECORATIVE SIDEWALKS ARE NOT ALLOWED.
- 14. ADA SIDEWALK RAMPS MUST BE CONCRETE AND CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT INDOT STANDARDS.
- IS, "INHERE SIDEWALK IS CONSTRUCTED ADJACENT TO THE CURB, THE SPACE BEHIND THE NEW CURB SHALL BE FILLED WITH GRANULAR MATERIAL TO THE REGURED ELEVATION AND COMPACTED IN LAYERS NOT TO EXCEED 4 INCIES.
- 16. ""WHERE SIDENALK IS NOT CONSTRUCTED ADJACENT TO THE CURB, THE SPACE BEHIND THE CURB SHALL BE FILLED WITH SUITABLE MATERIAL TO THE REQUIRED ELEVATION AND COMPACTED IN LAYERS NOT TO EXCEED 4 INCHES.
- IT. WERI BUILT IN COLLINCTION WITH CONCRETE PAYEMENT, EXPANSION AND CONTRACTION JOINTS SHOULD BE PLACED AT THE SAME LOCATIONS AS IN THE PAYEMENT SLAS. THE CURB AND QUITTER SHOULD BE TIED TO THE PAYEMENT BY UZ INCH POXING PREPORTED PROXY COATIES DANS AT APPROXIMATELY 3 FOR TO THISPRAYS. IF NO CONCRETE PAYEMENT IS EMILIAT THE THE CURB CURB SHOULD SHOW SHOULD SHOW SHOULD BE PLACED AT THE BOSS OF ALL RETURNS AND AT MITERVALS NOT TO EXCEED 100 FEET, COMPACTION JOINTS SHALL BE INSTALLED AT 20 FOOT DITERVALS.

CONSTRUCTION NOTES: GRADING AND PAVING

- PROVIDE AND INSTALL STANDARD STRENGTH ASPHALT PAVEMENT SECTION PER DETAIL THIS SHEET.
- PROVIDE AND INSTALL BRICK PAVER STRIP. BRICK PAVERS ARE TO MATCH EXISTING PAVER SIZE, TYPE, AND LOCATION OF EXISTING PAVER STRIPS ON NORTH AND SOUTH SIDES OF VAN BUREN STREET.
- PROVIDE AND INSTALL CONCRETE DUMPSTER PAD PER DETAIL THIS SHEET.
- 4 PROVIDE AND INSTALL CONCRETE PAVEMENT PER DETAIL THIS SHEET.
- (5) PROVIDE AND INSTALL 6'x6' TREE GRATE PER DETAIL SHEET CI.2.
- 6 PROVIDE AND INSTALL CONCRETE WALK PER DETAILS THIS SHEET.
- PROVIDE AND INSTALL INTEGRAL CONCRETE CURB AND WALK PER DETAIL THIS SHEET.
- 7 PROVIDE AND INSTALL HANDICAP SIGN PER DETAIL THIS SHEET.
- PROVIDE AND INSTALL ACCESSIBLE PARKING PAVEMENT STRIPING (BLIE) AS SHOWN ON PLANS PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH PROJECT AND MANUFACTURERS SPECIFICATIONS AND INDIANA CODE 5-16-4-4. 8
- PROVIDE AND INSTALL PASSENGER CAR PAVEMENT STRIPING (INHTE) AS SHOWN ON PLANS PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND MANUFACTURERS SPECIFICATIONS.
- PROVIDE AND INSTALL PROTECTIVE BOLLARD PER DETAIL SHEET CL2.
- (1) PROVIDE AND INSTALL DUMPSTER ENCLOSURE FENCE PER SHEET CI.2.
- PROVIDE A MINIMUM OF 6" OF CLEAN FERTILE TOPSOIL CAPABLE OF SUSTAINING LAWN GROWTH, PROVIDE AND SEED LAWN IN ACCORDANCE WITH PROJECT SPECIFICATIONS, REFURBISH DAMAGED LAWN AREAS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- MATCH EXISTING ELEVATIONS ALONG THIS LINE

(14)

- (15) EXISTING LIGHT POLE AND FIXTURE TO REMAIN.
- (6) NOT USED.
- 17) PROVIDE AND INSTALL 2' WIDE STRIP OF TRUNCATED DOME DETECTABLE WARNING SURFACE PER DETAIL THIS
- PROVIDE AND INSTALL 4" TALL CEDAR "SHADOW BOX" PRIVACY FENCE PER DETAILS SHEET CL2.
- PROVIDE AND INSTALL 5' WIDE WOOD MAN GATE FOR RESIDENT ACCESS. MAN GATE TO BE ELECTRONICALLY CONTROLLED ACCESS WITH RESIDENT KEY FOB, COORDINATE WITH ARCHITECTURAL REQUIREMENTS.
- STONE LANDSCAPE BED. REFER TO LANDSCAPING PLAN FOR ADDITIONAL INFORMATION.
- PROVIDE AND INSTALL 4" LANDSCAPING CURB PER DETAIL SHEET CI.2.
- 22 PROIVDE AND INSTALL TAPERED SIDEWALK ACCESS PER DETAIL SHEET CL2.
- 8' BY 8' ELECTRICAL TRANSFORMER PAD. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- 24 25)
- DESIGNATED PICNIC AREA.

St.





Performed for:

46725 Indiana City

nbia

6 Plan For: M

Development

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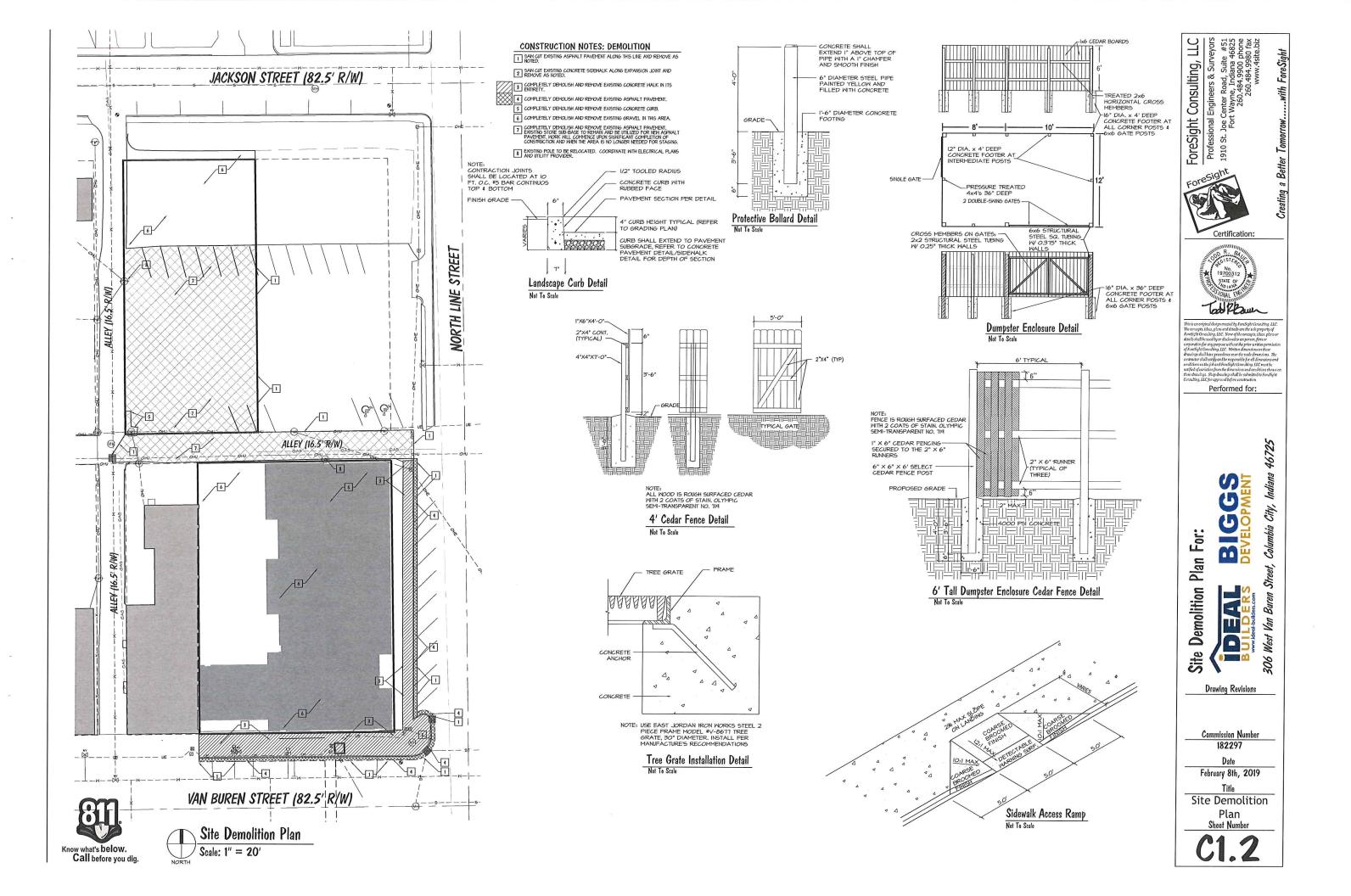
Drawing Revisions

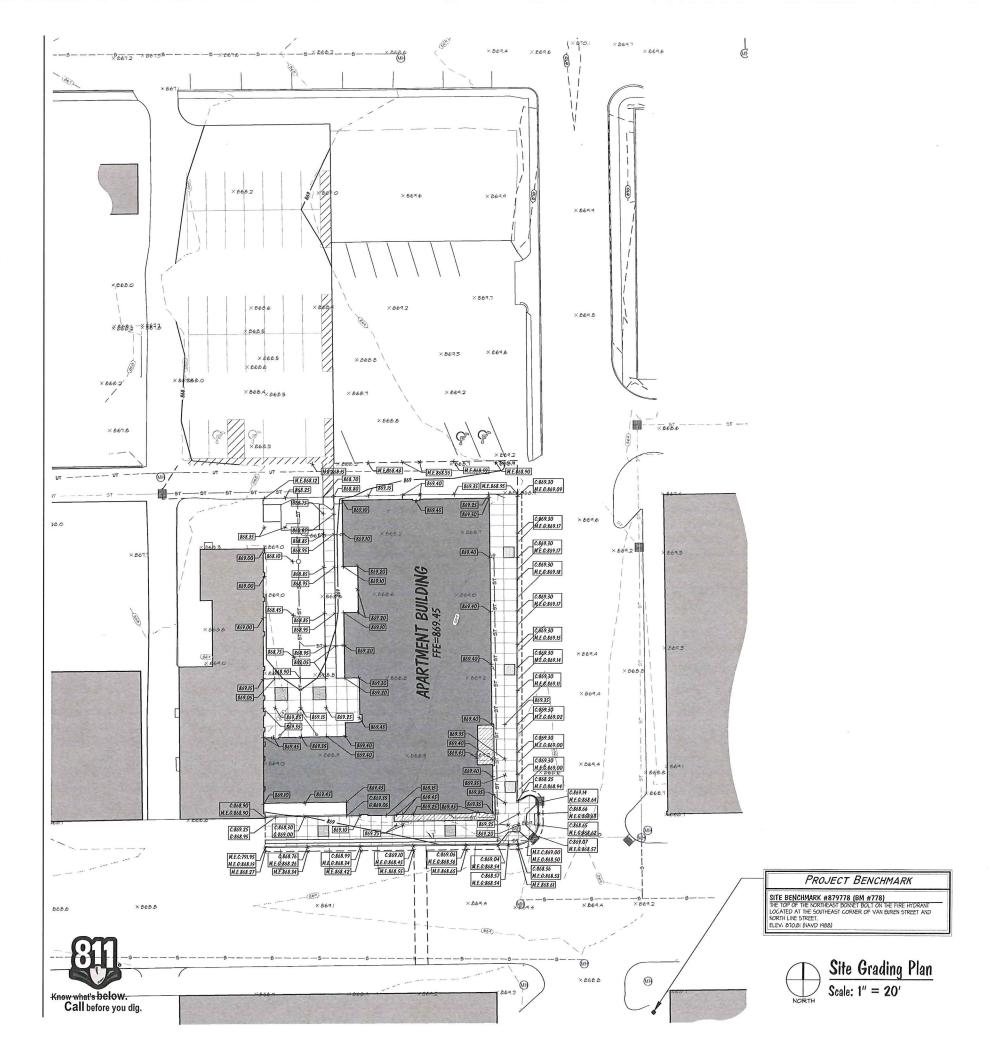
Commission Number 182297

Date

February 8th, 2019

Site Development Plan Sheet Number





- 5. ALL SITE CLEARING AND EARTHWORK OPERATIONS SHALL BE PERFORMED IN
- 7. STRIP TOPSOIL TO WHATEVER DEPTHS ARE ENCOUNTERED IN A MANNER TO PREVENT INTERMISELING WITH UNDERLYING SUBSOLL OR OTHER WASTE MATERIALS. STRIP SURFACE SOIL OF INSUITABLE TOPSOIL, INCLUDING TRASH, DEBRIS, NEEDS, ROOTS AND OTHER WASTE MATERIALS. STOCKPILE TOPSOIL ON SITE IN LOCATION AS DIRECTED BY THE OWNER FOR REUSE OXI-SITE.
- 8 EXISTING VEGETATION INDICATED TO BE REMOVED AND RELOCATED SHALL BE PROTECTED DURING EARTHWORK OPERATIONS. ALL VEGETATION SHALL BE RELOCATED AS DIRECTED BY THE OWNER.
- LEGALLY DISPOSE OF UNSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS, AND WASTE MATERIALS, INCLUDING TRASH AND DEBRIS OFF OWNERS PROPERTY. SURPLUS TOPSOIL SHALL BE STORED ON SITE AS DIRECTED BY THE OWNER.

GENERA	L NOTE: ABBREVIATIONS
"ME."	MATCH EXISTING ELEVATION.
"C"	TOP OF CURB ELEVATION.
"G"	GUTTER/BOTTOM OF CURB ELEVATION.
"TC"	TOP OF MANHOLE CASTING. (GUTTER/BOTTOM OF CURB)
'FFE'	FINISH FLOOR ELEVATION.

- REMOVE EXISTING TREES, SHRUBS, GRASS AND OTHER VEGETATION, INCLUDING ALL ROOTS, STUMPS AND BRANCHES, TO A POINT 18" BELOW FINISHED GRADE AS REQUIRED FOR CONSTRUCTION.
- 3 STRIP TOPSOLL TO WHATEVER DEPTHS ARE ENCONTERED IN A MAINER TO PREVENT INTERMINE. IN SHIT MUDERLYING SUBSOIL OR OTHER WASTE MATERIALS, STRIP SURFACE SOIL OF UNSUITABLE TOPSOIL, INCLUDING TRASH, DEBRIS, MEDIS, RODIS AND OTHER WASTE MATERIALS, STOCKPILE TOPSOIL ON SITE IN LOCATION AS DIRECTED BY THE OWNER FOR REUSE ON-SITE.
- 5 DISPOSE OF SURPLUS SOIL, INSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS, AND WASTE MATERIALS, INCLUDING TRASH AND TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.

TEAR STRENGTH: 75 LBF ASTM D4533 APPARENT OPENING SIZE: No. 30 ASTM D 4751

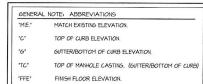
- PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 6 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT.

10% REDTOP

GENERAL NOTES:

- THE CONTRACTOR SHALL ENSURE THE CONDITION OF ALL EXISTING IMPROVEMENTS INDICATED TO REMAIN. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITY LINE AND ENSURE THE PROPER FUNCTIONING OF THESE SERVICES DURING CONSTRUCTION.
- 2. EXISTING UTILITY LOCATION SHOWN ON THESE PLANS IS BASED UPON FIELD SURVEY INFORMATION AND RECORD INFORMATION COLLECTED FOR THIS PROJECT. THE ACTUAL LOCATION OF THE EXISTING UTILITIES IS NOT CERTIFIED NOR GUARANTEED BY THE OFFICE OF THE ENGINEER OR ENGINEER.
- 3. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SIGNAGE AND BARRICADES FOR THE PROTECTION AND SAFETY OF VEHICULAR AND
- A MANNER TO MINIMIZE INTERFERENCE WITH THE ADJOINING ROADWAYS AND THE OWNERS FACILITIES. COORDINATE OPERATIONS WITH THE OWNER A MINIMAM OF 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- 6. REMOVE EXISTING TREES, SHRUBS, GRASS AND OTHER VEGETATION, INCLUDING ALL ROOTS, STUMPS AND BRANCHES, TO A POINT 18" BELOW FINISHED GRADE AS REQUIRED FOR CONSTRUCTION.

- IO. ONLY SATISFACTORY SOIL MATERIALS ACCEPTABLE TO, AND APPROVED BY THE OWNER, ENGINEER, AND GEOTECHNICAL ENGINEER SHALL BE USED AS FILL MATERIALS. TYPICALLY THE FOLLOWING CLASSIFICATIONS OF SOIL TYPES MAY BE USED FOR FILL BENEATH STRUCTURES AND PARKING ARES, ASTM D 2491 SOIL CLASSIFILATIONS OF GW, GP, GM, SW, SP, AND SM OR A COMBINATION OF THESE SOIL GROUPS.
- II. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 6 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, ALL FILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCEDURE.
- I2. COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMM DRY UNIT YEIGHT ACCORDING TO ASTIM D 1551; MDER PAYEMENTS AND BUILDINGS, SCARIFY AND RECOMPACT THE TOP IZ INCHES OF THE EXISTING SUBGRADE AND EACH LAYER OF FILL MATERIAL AT 95 PERCENT.



GENERAL NOTES/SPECIFICATIONS: SITE CLEARING AND EARTHWORK

- ALL SITE CLEARING AND EARTH/YORK OPERATIONS SHALL BE PERFORMED IN A MANNER TO MINIMIZE INTERFERENCE WITH THE ADJOINING ROADWAYS AND THE OWNERS FACILITIES, COORDINATE OPERATIONS WITH THE OWNER A MINIMUM OF 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

- 4 EXISTING VEGETATION INDICATED TO BE REMOVED AND RELOCATED SHALL BE PROTECTED DURING EARTHVORK OPERATIONS. ALL VEGETATION SHALL BE RELOCATED AS DIRECTED BY THE OWNER.
- 6 ONLY SATISFACTORY SOIL MATERIALS ACCEPTABLE TO, AND APPROVED BY THE OWNER, ARCHITECT, AND GEOTECHNICAL BIGINEER SHALL BE USED AS FILL MATERIALS, TYPICALLY THE FOLLOWING CLASSIFICATIONS OF SOIL TYPES MAY BE USED FOR FILL BENEATH STRUCTURES AND PARKING AREE; ASTM D 2487 SOIL CLASSIFIACTIONS OF GM, GP, GM, SM, SP, AND SM OR A COMBINATION OF THESE SOIL GROUPS.
- IF REQUIRED THE INSTALLATION OF A SEPARATION FABRIC TO REINFORCE THE PRAYEMENT STRUCTURE. THE SEPARATION FABRIC SHALL BE A MOVEN GEOTEXTILE WITH THE FOLLOWING MINIMAN PROPERTIES ACCORDING TO ASTM D 4 787.

 GRAP TENSILE STRENGTH: 200 LBF ASTM D 4632

PUNCTURE RESISTANCE: 90 LBF ASTM D 4833
WATER FLOW RATE: 4 6PM PER SQ. FT. ASTM D 4491

- COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557; INDER PAVEMENTS, SCARIFY AND RECOMPACT THE TOP 12 INCHES OF THE EXISTING SUBGRADE AND EACH LAYER OF FILL MATERIAL AT 95 PERCENT UNDER LAWN OR UNPAYED AREAS, SCARIFY AND RECOMPACT THE TOP 6 INCHES OF THE EXISTING SUBGRADE AND EACH LAYER OF FILL MATERIAL AT 40 PERCENT.

KENTUCKY BLUEGRASS CHEWINGS RED FESCUE PERENNIAL RYE GRASS ight Consulting, LLC sional Engineers & Surveyors . Joe Center Road, Suite #51 Fort Wayne, Indiana 46825 260.484.9900 phone 260.484.9980 fax www.4site.biz

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Performed for:



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Bul Van TIT! West **6**5

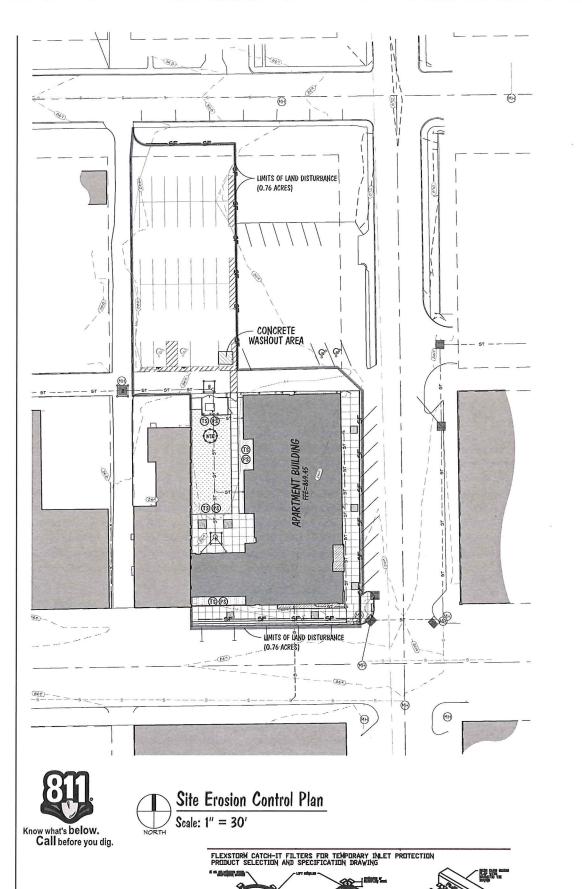
Drawing Revisions

Commission Number 182297

Date February 8th, 2019

Title

Site Grading Plan Sheet Number



ADS Filter Detail

Not to Scale

GENERAL NOTE: PROJECT DOCUMENTATION THE CONTRACTOR SHALL MAINTAIN ON-SITE AND HAVE AVAILABLE UPON REQUEST A SET OF CONSTRUCTION DOCUMENTS (INCLUDING THE SITE PLANS), ALL EROSION CONTROL INSPECTION REPORTS AND A COPY OF THE INDIANA DEPARTMEN OF ENVIRONMENTAL MANAGEMENT NOTICE OF INTENT FOR REVIEW BY THE COLUMBIA CITY ENGINEERING DEPARTMENT PERSONNEL OR OTHERS ASSOCIATED WITH THE PROJECT.

GENERAL NOTE: PERMANENT SITE STABILIZATION UPON PERMANENT AND SATISFACTORY STARILIZATION OF TH PROJECT SITE, THE CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES SPECIFIED ON SHEETS C3.1 THROUGH C3 4 AND SHALL SURMIT A NOTICE OF TERMINATION TO THE COLUMBIA CITY ENGINEERING DEPARTMENT ALONG WITH COPIES OF FINAL AS-BUILT DRAWINGS TO FORMALLY TERMINATE THE PROJECT AND PROVIDE PROJECT CLOSE OUT.

GENERAL NOTE: STREET CLEANING AND SWEEPING
THE CONTRACTOR SHALL, ON A REGULAR BASIS, CLEAN AND SWEEP THE ADJOINING STREETS AND PAYED SURFACES OF ALL SOIL MUD AND SEDIMENT TO PROVIDE A CLEAN TRAVEL WAY FOR BOTH CONSTRUCTION AND PUBLIC TRAVEL AND SAFETY.

GENERAL NOTE: ADDITIONAL EROSION CONTROL MEASURES ADDITIONAL EROSION CONTROL MEASURES AS DEEMED NECESSARY BY THE OWNER. ARCHITECT/ENGINEER AND THE COLUMBIA CITY ENGINEERING DEPARTMENTS SHALL BE PROVIDED, INSTALLED AND MAINTAINED BY THE SITE CONTRACTOR DURING CONSTRUCTION

SEDIMENT FENCE INSTALLATION SCHEDULE
AND SLOPE DISTANCE BETWEEN FENCE APPLICATION

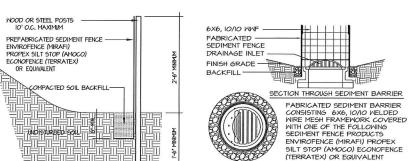
Sediment Fence Detail

Not to Scale

Erosion Control Symbols and Legend

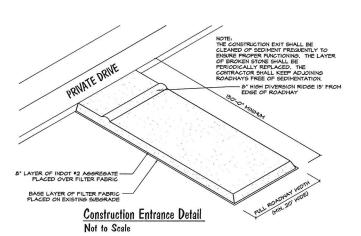
Site Preparation Temporary Gravel Entrance/Exit Topsoil (Salvage and Utilization) Concrete Washout Area (Signage Required) Erosion Control Blanket (B) Surface Stabilization Temporary Seeding Permanent Seeding Mointained Lann Sediment Traps and Barriers —sr— 16 Silt Fence (Sediment Fence) (WSB) Woven Wire Mesh Sediment Barrier Outlet Protections Rock Chute Conveyances Grass Lined Channe Temporary Drop Inlet Protections

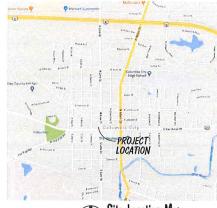
Bosket Inlet Protection (ADS Filter) (Refer to detail on this sheet)



PLAN VIEW OF SEDIMENT BARRIER ALTERNATIVE TO WELDED WIRE SEDIMENT BARRIER
ADS FLEXSTORM FILTER SYSTEM MAY BE INSTALLED AS AN
ALTERNATIVE INLET PROTECTION SYSTEM TO THE WELDED WIRE
SEDIMENT BARRIER SHOWN IN THIS DETAIL IN AREAS WHERE PUBLIC
ACCESS (PEDESTRIAN AND) OR VEHICULAR) IS TO BE MAINTAINED
DURING CONSTITUTION.

Sediment Barrier Detail Not to Scale

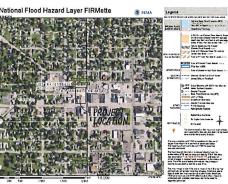








National Wetlands Inventory Map
Not To Scale







Partial Hamiliton County Soils Map
Not To Scale

SOILS LEGEND:

BmB2 - Blount silt loam, 1 to 4 percent slopes, eroded







Joe Center R Fort Wayne 260.

Performed for:

46725

Indiana

City,

nbia

for:

Erosion

四部 Control Plan



Buren Van West 306

Drawing Revisions

Commission Number 182297

Date February 8th, 2019

Title **Erosion Control Plan**

- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES TO LIMIT SITE DISTURBANCE TO THE SMALLEST PRACTICAL AREA FOR THE SHORTEST POSSIBLE TIME. THE OVERALL SITE DISTURBANCE SHALL BE LIMITED TO THE CONSTRUCTION LIMITS AS DELINEATED ON THE PLANS
- LIMITED 10 THE CONSTRUCTION LIMITS AS DELINEATED ON THE PLANS, IN AN AREA THAT HAS BEEN DISTURBED AND STRIPPED OF VEGETATION MERCE NO ADMINISTRATE WITHIN THE NEXT 15 DAYS, APPROPRIATE EROSION CONTROL MEASURES MOST BE INSTALLED TO LIMIT SOIL EROSION. THE AREA SHALL BE STABILIZED WITH MLICHINS, SEEDING, OR OTHER APPROVED EROSION CONTROL PRACTICES TO REDUCE SOIL EROSION.

TO RELIVEE SOLI EXOSURE IN A REFILT BASIS AND AFTER EACH IZ? RANFALL EVEN REPELT, MONTOR, HANTAN, REPAR OR REPLACE THE SPECIFIED REVENUE OF THE REPUBLIC FOR THE RANFAUL BEFORE THE FOR THE ROAL AFFORD AND THE REPUBLIC FOR THE ROAL AFFORD AND THE REPUBLIC FOR THE ROAL AFFORD AND THE LOCAL GOVERNIA SHIPPING AND THE LOCAL GOVERNIA MITRICITE OF THE PAGE OF THE ROAL AFFORD AND THE LOCAL GOVERNIA MITRICITE OF THE PAGE OF THE ROAL THE ROAD THE LOCAL GOVERNIA MITRICITE OF THE PAGE OF THE ROAL THE ROAD THE LOCAL GOVERNIA MITRICITE OF THE PAGE OF THE ROAD THE LOCAL GOVERNIA MITRICITE OF THE PAGE OF THE ROAD TH

- THE CONTRACTOR SHALL LIMIT THE SEDIMENTATION OF THE LOCAL ROADWAYS, AND SHALL, IN A TIMELY MANNER, PERIODICALLY REPORT SEDIMENTATION PROWTHER READWAYAYS. ANY ADDITIONAL REPORT CONTROL MEASURES REQUIRED BY THE LOCAL GOVERNIS AUTHOR TO REDUCELIMIT THE SEDIMENTATION OF THE ROADWAYS DURING CONSTRUCTION SHALL BE IMPLEMENTED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELIMINATION OF SEDIMENT WITHIN THE PROPOSED STORM SEWER AND CULVERT SYSTEMS. ALL SUMPED INLETS, CATCH BASINS, STORM SEWER STRUCTURES AND CULVERT END SECTIONS SHALL BE PROTECTED FROM SEDIMENTATION WITH THE INSTALLATION OF SEDIMENT BARRIERS, SILT FENCES, OR OTHER APPROVED EROSION CONTROL MEASURES.
- 6. SEDIMENTATION CONTROL AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION UPON THE COMPLETION OF CONSTRUCTION.
- ALL DISTURBED AREAS NOT COVERED BY BUILDING OR PAVEMENT SHALL CONSIDERED LAWN AREAS, AND SHALL BE PLANTED WITH GRASS.
- FINISH GRADED AREAS SHALL BE STABILIZED IMMEDIATELY BY INSTALLING ONE OF THE FOLLOWING EROSION AND SEDIMENT CONTROL SYSTEMS:

ONE OF THE FOLLOWING EROSION AND SEDIMENT CONTROL SYSTEMS.

ALTERNATE NO!

APPLY PREMANENT SEEDING MIXTURE (AS SPECIFIED IN THE SEEDING SCHEDLE) WITH STANDARD AMERICAN EXCELSION CURLEX ASPEN FIBER EROSION CONTROL BLANKET OR APPROVED BOUNL TO DISTURBED AREAS WITH SLOPES LESS THAN 41 AS RECOMMENDED IN THE SEEDINGS SCHEDULE SCHEDULE TO ESTABLISH INTERIN SOIL STADILIZATION INSTALL THE EROSION CONTROL BLANKET IN STRICK ACCORDANCE WITH MANDACULARS SEEDINGS FOR MINITER APPLICATIONS.

ALTERNATE NO WINITER APPLICATIONS.

APPLY PERMANENT SEEDING WINITER (AS INDICATED IN SEEDINGS SCHEDULE FURTH HEADER SCHEDULE TO WINITER (AS INDICATED IN SEEDINGS SCHEDULE FURTH HEADER SCHEDULE TOWN THE MORE (AS INDICATED IN SEEDINGS SCHEDULE FURTH HEADER) THE SCHEDULE SCHEDULE OR APPLY PERMANENT SCHEDULE III EROSION CONTROL BLANKET ON APPROVED

- I MILIT MOM VELLOLIT LOWLEX III ENDOON CONTROL BLANKET OR APPROV EQUAL TO DISURBED AREAS WITH SLOPES GREATER THAN 4.1 AS RECOMERDED IN THE SEEDING SCHEDULE TO ESTABLISH INTERIN SOIL STABLIZATION, INSTALL BROSON CONTROL BLANKET IN STRICT ACCORD WITH MANUFACTURERS INSTALLATION INSTRUCTIONS FOR WHITER APPLICAT
- DUST SHALL BE KEPT TO A MINIMUM BY UTILIZING SPRINKLING, CALCIUM CHLORIDE, VEGETATIVE COVER, SPRAY OR ADHESIVES, OR OTHER APPROVED METHODS.
- 10. NO RUNOFF ORIGINATING FROM THE PROJECT AREA OR DIRECTED ONTO IT FROM UPSTREAM AREAS SHALL LEAVE THE BOUNDARIES OF THE PROJ AREA UNLESS IT PASSES THROUGH AN EROSION CONTROL MEASURE OR CONTROL FACILITY.
- THE SITE WILL BE CONSIDERED TO BE PERMANENTLY STABILIZED WHEN ALL PERMANENT CONTROL NEAS/REFACILITIES HAVE BEEN COMPLETED MID ARE OFERATIONAL, TEMPORARY CONTROL MEAS/RESFACILITIES RAVID WINFORM REOS/SON RESISTANT PERSONAL VEGETATION IS ESTABLISHED TO THE POINT WHERE THE SURFACE SOIL IS CAPABLE OF RESISTING TO THE FORM PARKE THE SHARME SOLL IS CAPABLE OF RESISTING RECEIVE COVER NULL BE A UNIFORM COVERAGE OR DENSITY OF TO PERCENT ACROSS THE DISTURBED AREA.

ALL EROSON CONTROL MEASURES, PRACTICES AND PROCEDURES SHALL COMPLY WITH THE NORMA HANDEDOK FOR EROSON CONTROL IN DEVELOPING AREAS, LATEST EDITION THE CONTRACTOR SHALL COMPONENT OF SHAD TO SHAD TO SHAD THE INITIATED BY THE GRANT CONTY SOIL AND NATES CONSERVATION DISTRICT OR THE INITIATED BY THE GRANT CONTY SOIL AND NATES CONSERVATION DISTRICT OR THE INDIVIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT REQUESTED DRING

THE CONTRACTOR SHALL DESIGNATE AND IDENTIFY AN INDIVIDUAL RESPONSE FOR THE MONITORING OF THE SITE ON A NEETLY BASIS AND AFTER EACH ID'S RAINFALL EVENT. THIS INDIVIDUAL SHALL HAVE INDOMEDIES OF REPORT CONTRACT, POLICIES AND FRACTICES, AND SHALL MANTAIN THE PROSON AND SEDVENTATION SITE INSPECTION LOS AND REPORT. THE SELF INSPECTION LOS AND REPORT, THE SELF INSPECTION LOS AND REPORT SHALL CONTRAN THE FOLLOWIS MORPHATION AS A MINIMAL.

NAME OF THE PROJECT NAME OF THE INSPECTOR
DATE OF RAINFALL AND AMOUNT
DATE OF INSPECTION
DATE OF INSPECTION
THE OF INSPECTION

"FAILURES FROM LESS THAN THE TWO YEAR STORM EVENT REQUIRE AN UPGRADE OF STRUCTURE OR SYSTEM OF FRACTICES. FAILURES FROM EVENTS GREATER THAN THE TWO YEAR STORM EVENT REQUIRES REPAIR AND EVALUATION OF THE ADEQUACY OF THE BROSSON CONTROL FREAURES.

THE FOLLOWING IS A SAMPLE FORMAT FOR THE SELF INSPECTION REPORT:

Date: Time: Weather conditions: Reason for Inspection:
______ Yeekly Inspection
______ Inspection After Storm Water Runoff
Rain Gauge Reading _____

Observation:

An Eresia and Sectional Coutral (ESC) Fan in required to be implemented and nontrained in a their parent or left lettlet up certor the site. In ESC Fan is all iccleive. Carages to the prior medit be note due to earther protein construction sequence charges or follow of practices. Freight nonagers/contractors have the responsibility to modify plans if necessres fall or faults is an activated.

CONSTRUCTION AND STORMWATER

ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS (SECTION A)

ALPLAN INDEX SHOWING LOCATIONS OF REQUIRED ITEMS: REFER TO SHEET C3.I.

A3 NARRATIVE DESCRIBING PROJECT NATURE AND PURPOSE THIS PROJECT CONSISTS OF THE DEVELOPMENT OF A APARTMENT BUILDING. AS A RESULT OF THE DEVELOPMENT, NEW STORM SERVER, PARKING AREAS, AND UTILITY INFRASTRUCTURE WILL BE CONSTRUCTED TO SUPPORT THE PROJECT.

THE LAND DISTURBING ACTIVITIES SHALL BE AS SHOWN ON THE CONSTRUCTION DOCUMENTS AND NARRATIVE THIS SHEET.

CONSTRUCTION SECURICE: (REFER TO SCHEDULE OF EROSION AND SEDIMENT CONTROL SECURICE AND GENERAL NOTES THIS SHEET.)

A4 VICINITY MAP SHOWING PROJECT LOCATION-REFER TO SHEET C3.I.

AS LEGAL DESCRIPTION OF THE PROJECT SITE: AD LEGAL DESCRIPTION OF THE PROJECT SITE ARE.

LATITUDE: 41 degrees 09 minutes 25 seconds

LONSITUDE: 95 degrees 24 minutes 24 seconds A6 LOCATION OF ALL LOTS AND PROPOSED SITE IMPROVEMENTS: SEE SHEETS CIT COLL COLL COLL COLL

AT HYDROLOGIC UNIT CODE;
05/20/04020040 - BLIE RIVER - NORTH TRIB/COLLIMBIA CITY AS NOTATION OF ANY STATE OR FEDERAL WATER QUALITY PERMITS:

AS SPECIFIC POINTS WERE STORMWATER DISCHARGE WILL LEAVE THE SITE.
THE MAJORITY OF THE STORMWATER WILL BE ROJIED VIA PROPOSED STORMWATER DRAINAGE SYSTEM
OR OVER AND FLON TO THE EXISTING STORM SEVER STRUCTURE LOCATED WEST OF THE SITE AT THE
MITTERSECTION OF THE ALLEY MAYER.

A/O LOCATION & NAME OF ALL WETLANDS, LAKES & WATER COURSES ON AND ADJACENT TO THE SITE:

All IDENTIFY ALL RECEIVING MATERS.
AS STATED ABOVE, THE STORMATER FROM THE PROJECT SITE CONTRIBUTES TO AN EXISTING STORM SEVER SYSTEM AND EXPERTALLY TO THE BLIE RIVER.

A12 IDENTIFICATION OF POTENTIAL DISCHARGE TO GRONOWATER

AI3 100 YEAR FLOODPLANS, FLOODWAYS, AND FLOODWAY FRINGES. ALL PRE-CONSTRUCTION AND POST CONSTRUCTION ESTIMATE OF PEAK DISCHARSE, PRE DEVELOPED GOO FOR IMPACTED WATERSHED = 26 ds POST DEVELOPED GOO FOR IMPACTED WATERSHED = 39 ds

AIS ADJACENT LAND USE, INCLUDING UPSTREAM MATERSHED; FXISTING ADJACENT LAND USE IS PRIMARILY A MIXTURE OF COMMERCIAL AND RESIDENTIAL.

A'6 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS. REFER TO SHEETS CILITHROUGH CS.I.

ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS SECTION A CONTINUED

ALT IDENTIFICATION OF EXISTING VEGETATIVE COVER.
REFER TO SHEET 521.

AIB 501.5 MAP INCLUDING DESCRIPTIONS AND LIMITATIONS: REFER TO SOILS MAP SHEET 31. ARLOCATION SIZE AND DIVENSIONS OF PROPOSED STORWANTER SYSTEMS.
REFER TO SHEET CALL

A20 PLAN FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT:
NOVE.

AZI LOCATIONS OF PROPOSED SOIL STOCKPILES, BORROW AND/OR DISPOSAL AREAS.
REFER TO SHEFT COLI

A22 EXISTING SITE TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO SHOW DETAILED DRAINAGE PATTERNS.
REFER TO SHEET (2) A23 PROPOSED FINAL TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO SHOW DETAILED DRAINAGE PATTERNS.
REFER TO SHEET CO.I.

ASSESSMENT OF STORMWATER POLLUTION PREVENTION PLAN-CONSTRUCTION COMPONENT (SECTION B)

B. DESCRIPTION OF POTENTIAL POLITIANT SORCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
POTENTIA POLITIANT SORCES ON SITE WAY NULIDE VEHICLE LIBERCANTS, DIES, VIEHOLAR FIELS, OCKRETE WASH-ON, MUCH, PESTIONES, HERBLIGS, FERTILIZER, NOT TRANS, FIELS, OLS, AND 646CALE CAN LEAK OR BE SPILLED FROM TRUCKS AND CONSTRUCTION EQUIPMENT HIGH COLD FIELD PIER MAY 100 ADDIMINES STORM SORES PREPORTIFIESTE. NO DIMENTIAL RECEIVES CHANGE. BES SECRETE DESCRIBING STORMATER QUALITY MEASURE MPS EMERICATION FOR ATTIVE TO.

LAND DISTURBING ACTIVITIES.

SET SCHEDULE OF EROSION AND SEDMENT CONTROL SEQUENCES ON THIS SHEET.

B3 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS, SEE SHEETS C31-C34.

B4 SEDMENT CONTROL MEASURES FOR SHEET FLOW AREAS. SHE SHEETS C31-C34. BS SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS.
SEE SHEETS (3)-(3)4.

BE STORM SEVER IN ET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS SEE SEETS C31-C34.

B1 RNOFF CONTROL MEASURES: SEE SHEETS C31-C3.4.

BB STORMWATER OUTLET PROTECTION SPECIFICATIONS: SEE SHEETS CBJ-CB.4.

BI GRADE STABLIZATION STRICTURE LOCATIONS AND SPECIFICATIONS; SEE SHEETS C31-C3.4.

BO LOCATION DIFFISIONS, SPECFICATIONS AND CONSTRICTION DETAILS FOR EACH STORMWATER QUALITY MEASURE. SEE SHEETS C31-C34.

BILITEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON. SEE SHEETS C31-C3.4. SEE SHEETS UST-03-46.

IN ACCORDANCE WITH EROSION CONTROL GENERAL NOTE NUMBER TWO, ANY AREA THAT IS ANTICIPATED TO BE INACTIVE FOR MORE THAN IS DAYS SHALL BE TEMPORARY OF PER-VARIANT, SEEDED TO PREVENT EROSION AND SEDIMENTATION.

BIZ PERMANNES SIRFACE STABLIZATION SPECIFICATIONS
SEE SHEETS C31-C34, AND INPLEMENTATION AND MAINTENANCE PROCEDURE ON THIS SHEET IN ACCORDANCE WITH EROSON CONTROL GENERAL NOTE INVIECT TWO LAYS AREA THAT IS ANTICIPATED TO BE INVALINE FOR MORE THAN IS DAYS SHALL BE TEMPORARY OF PERMANENTLY SEEDED TO PREVENT EROSON AND SEDMENTATION.

B3 MATERIAL HANDING AND SPILL PREVENDION PLAN

EMPERIED COORDINGTON METRICAS ON SITE MY DICLIDE VEHICLE LIBRICANTS, OLS, VEHICLAR FIELS,
COUNCEIT MARKHON, HLOCH PISTICOS, EMBELOES, FERTILIZER, AND TRAVEL FIELS, OLS, AND ANSOLNE CAN
LEAK OR ES SPILLED FROM TRACKS AND CONSTRUCTION EQUIPMENT HACH COLD FIND THEM MAY TO ADJOINS
STORM SPICER PROMOPERIES AND CONSTRUCTION EQUIPMENT HACH COLD FIND THEM MAY TO ADJOINS
STORM SPICER PROMOPERIES AND CONSTRUCTION CHANGES.

CONCRETE MASHOUT FROM CONSTRUCTION ACTIVITY SHALL BE DISCHARSED INTO MASHOUT PITS ON SITE AT AREAS DESIGNATED BY THE CONTRACTION. THE MASHOUT PITS SHOULD BE DOTED ON SITE IN THE INSTALLATION OF SHAVE INCOLLAND. HE MASHOUT MACK, REFER TO ADDITIONAL REPORTATION THIS SHEET ON CONCRETE AND SHAVE PROCEDURE HE MASHOUT PACK. REFER TO ADDITIONAL REPORTATION THIS SHEET ON CONCRETE AND SHAVE PROCEDURE.

SHALL SPILLS AND LEAKS OF THESE MATERIALS ONTO NON-PAYED AREAS WILL BE SHOVELED INTO CONTAINERS OR DIMPSTERS FOR PROPER DISPOSAL.

REINS TROUGHLUE EQUIPPED WITH SPILL PREVENTION KITS FOR SMALLER RIEL SPILLS. ALL VEHOLAR MANIENKE SPILL DE REPORTED IN THE SAME DESIGNATED AREA TROUMHOUT THE CONSTRUCTION THE FRAME PROSSERE, PROMICIAR PANTIENKE SPILL DE DOOR OFF-STER AT IA FLAZINES IN THAT ARE DESIGNED TO HANDLE PROSSERE, PROMICIAR SPILLE PROVINCE SPILLE SPILL

CORTRACTOR SHALL CORTACT A MATE RECOVERY ASSECT INSEDATELY FOR REMOVAL OF CONTAMINATES AN COORDINATION OF MATTERNIE THE DIRES ALEANIP INTIL ALL OF THE HAZARDOS MATERIAL MAS EXEN REMOVED. CORRECTOR SHALL CORPARIA WITH DEPLOYERS AND AFTER THE SPILL TO INSIRE ALL REGIRED CLEANIP AND FILING REPORTS ARE PROPERTY SUBMITTED.

THE EVELOPES SHALL BE COMMINALLY INFORMED OF ANY CONTAMINATION CONCEINS OCCURRING ON THE STE.
THE CONTINUOUS HANGES SHALL KEEP ON SITE A LIST OF GALL-FED CONTRACTORS FOR SHALL REPEDATION
AND REPEDATION TECHNIQUES. ALL INVERNALS LISED TO ABSORD SHALL SHALL BE PROPERTY DEPOSED OF IN
AND REPEDATION TECHNIQUES. ALL INVERNALS LISED TO ABSORD SHALL SHALL BE PROPERTY DEPOSED OF IN
AN PERSONATION TECHNIQUES. ALL INVERNALS LISED TO ABSORD SHALL SHALL BE PROPERTY DEPOSED OF IN
AN APPROACH WAVEN KILL LOCAL AND STATE LANG. DO NOT FLUHS SHALL MERGRALS AND HAVEN RULES
DESCLIED TO DO SO BY A CONTRINS ASSENT. IT IS IN PORTIANT THAT ALL INVERALITIESTS INSTITUTIONS EF
FOLLOWED THIS LOOP. OF APPLYING ALL HERSTLLESS, RESECCIOLS, AND TESTICOLOGS.

BI4 MONITORING AND MAINTENANCE GUDELINES FOR EACH PROPOSED POLLUTION

PERVENION PEASIES. REFER TO MAINTENANCE GUIDELINES SHOWN FOR EACH EROSION CONTROL MEASURE SHEETS C3J-C3.4. AND SPECIFICATIONS THIS SHEET. REFER TO EROSION CONTROL GENERAL NOTE NUMBER IS FOR ADDITIONAL INFORMATION REGARDING MONITORING AND MANTENANCE OF THE EROSION CONTROL SYSTEM, AND MONITORING LOG REQUIREMENTS. BIS FROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BILLDING LOTS:

ASSESSMENT OF STORMWATER POLLUTION PREVENTION POST-CONSTRUCTION COMPONENT (SECTION C)

CL DESCRIPTION OF POTENTIAL POLIUTIANT SOURCES ASSOCIATED WITH THE PROPOSED LIAD USE. POTENTIAL POLIUTIANT SOURCES POST COMENICITION NOLLIDE OSTINEED SOLS PROVI SIGNEDITI DIT DEVELOPMENT, RETRUZENS, PESTICIOTIS AND CINETA WAS TREATIVED AND LICATIONS AND ASSOCIATED WITH VEHICLIAR TRAFFIC THROUGHOUT THE DEVELOPMENT.

INSPECTION AND MAINTENANCE OF THE SITE INCLIDING ALL ROADWAYS, PAVEMENTS, LANDSCAPE AREAS AND INFRASTRUCTURE IMPROVEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR/OWER.

POST COASTRUTION STORMANTER CAULITY TEAGRES HILL COASST OF VEGETATIVE COVER ON THE PERMANENT GRA AREAS, INFOCMMENT AND PERMANENT REGISSION CONTROL BLANKETS IN SPECIFED AREAS, BOTH THE VEGETATIVE CO AREAS, DEPOSITION OF A STANDARD AND A STANDARD A

C4.LOCATION DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMMATER QUALITY MEASURE.

THE STORMATER CHAITY MEASURES FOR POST CONSTRUCTION ACTIVITIES ARE INDICATED WITHIN THESE CONSTRUCTION DOWNSTEIN. RETEXT TO SHEETS G31-G34 FOR BEDSION CONTROL HEAVISES TO BE INFLIGENTED WITHIN THE PROJECT STEEL AND SHEET COST INKS STORM SHEWN PROVIDENTS INTERDED TO SERVE THE POST CONSTRUCTION DREAD DIVISIONS STORMATER CHAIL AND CONSTRUCTION DREAD DIVISIONS STORMATER CHAIL THE MEASURES ARE INCLUDED WITHIN THE ACCORDINATION CONSTRUCTION CONSTRUCTION CONSTRUCTION.

C5 DESCRIPTION OF MANTENANCE GUDELINES FOR POST CONSTRUCTION STORMWATER QUALITY MEASURES.

BJLDING AND GROUNDS PERSONNEL WILL PROVIDE MAINTENANCE ACTIVITIES FOR THE POST CONSTRUCTION WATER QUALITY MEASURES. MAINTENANCE ACTIVITIES WILL BE COMPLETED AS DESCRIBED BELOW.

ALL INLET CASTINGS WILL BE INSPECTED MONTHLY. DEBRIS AND TRASH AROUND OR OBSTRUCTING INLETS WILL BE REMOVED.

CATCH BASINS WILL BE INSPECTED QUARTERLY, TRASH, STICKS, DEBRIS, AND SEDIMENT WILL BE REMOVED TO ENSURE PROPER PERFORMANCE OF THE CATCH BASIN.

GRASS AREAS SURROUNDING INLETS WILL BE MAINTAINED ON A REGULAR MOVING CYCLE. TRASH AND DEBRIS WILL BE REMOVED FROM SEEDED AND PAVED AREAS. DAMAGE TO INLET CASTINGS, INLET STRUCTURES, STORM STRUCTURES, OR CATCH BASING SHOULD BE REPAIRED AS SOON

ADDITIONAL POLLUTION CONTROL PRACTICES AND POLICIES

DESCRIPTION AND PURPOSE

IO PRESENT OR REDUCE THE APACHT OF COLUMNITION TO SIGNANTIER REQUIRING REST VEHICLE AND EDITIONS THAT AND A THE ARCHITECTURE OF THE ATTENDED AND THE ATTENDED AND SITE THE REST PROCESS AND THE STORE AND A THE STORE HANDER AND A THE OPTION IS NOT RESTORE HANDERWASE AND THE ATTENDED AND THE FACILITY AND A THE OPTION AS DON'T PERSON, IT HER WAS SHOULD BE TRESONED OUT AN OFFICIAL PROCESS AND A THE PROCESS AND A THE ATTENDED AND A THE PROCESS AND A THE PROCESS AND A THE ATTENDED AND A THE PROCESS AN

SUITABLE APPLICATIONS

THESE PROCEDURES ARE APPLICABLE FOR ALL CONSTRUCTION PROJECTS WHERE AN ONSITE STAISING YARD AREA IS NECESSARY FOR THE STORAGE AND MAINTENANCE OF HEAVY CONSTRUCTION EQUIPMENT AND

LIMITATIONS

IF MANTENAYCE MIST COCUR CAGITE, MORK SHOULD BE DONE CALLY IN DESIGNATED AREAS LOCATED ANAY FROM DRAINAGE CO.RGES, DEDICATED MANTENAYCE AREAS SHOULD BE PROTECTED FROM STORMWATER INFLITRATION AND RINGET. THE MANTENAYCE AREA SHOULD BE LOCATED AT LEAST 50 FEET FROM DOWNSTREAM DRAINAGE FROUTIES, MITEMATS AND FLOOD PLANS.

STORE AN ADEQUATE AMOUNT OF SPILL CLEANLY MATERIALS ONSITE WERE THEY CAN BE READILY ACCESSIBLE.

DRIP PAIG OR ABSORBERT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT MAINTENANCE WORK THAT INVOLVES FLUDS, UNLESS THE MAINTENANCE WORK IS PERFORMED OVER AN IMPERMEABLE SURFACE WITHIN THE

USE ABSORDENT MATERIALS ON SMALL SMILL AREAS, REMOVE THE CONTAMINATED ABSORDENT MATERIALS PROMPTLY AND DISPOSE OF THEM PROPERLY. ALL FIELING TRICKS AND FIELING AREAS SHALL HAVE SPILL KITS AND/OR USE OTHER ADEQUATE SPILL PROTECTION DRIVES

INSPECT ONSITE VEHICLES AND EQUIPMENT DAILY AT THE BEGINNING OF EACH DAY FOR LEAKS AND REPAIR

KEEP VEHICLES AND EQUIPMENT CLEAN, DO NOT ALLOW EXCESSIVE BULD-UP OF OIL, GREASE OR SILT MATERIALS THAT MAY CONTAMINATE OTHER PORTIONS OF THE SITE. EMPLOTEES AND SUBCONTRACTORS SHALL BE TRAINED IN PROPER MAINTENANCE AND SPILL MEDIATION PROPER MAINTENANCE AND SPILL MEDIATION

PROPERLY DISPOSE OF USED OILS, FLUIDS, LUBRICANTS, AND SPILL CLEANLY MATERIALS PER LOCAL AND STATE LAWS

SEPARATE AND RECYCLE WASTES SUCH AS GREASES, USED OL, HIDRALLO FILID, OL FILTERS, ANTIFREEZE, CLEANNS SOLVENTS, BATTERES, AND TRANSHSSION FILIDS. IF THESE MATERIALS ARE STORED ORBITE, PROVIDE ADEQUATE SECONDAY CONTAINENT AND COMES.

DO NOT PLACE USED OIL IN AN INAPPROVED DIMPSTER, POIR INTO A STORY DRAIN OR HATERCOIRSE, OR POIR ORTO THE GROUP.

DRIP PAYS OR PLASTIC SEETING SHOULD BE PLACED INDER ALL VEHICLES AND EQUIPMENT PLACED ON MATERIANY DOCKS, BARGES, OR OTHER STRICTIRES LOCATED OVER MATER BOOLES HIÐN TIE VEHICLE OR EQUIPMENT SATINGPATED TO BE TILLE FOR THAY DOE HAN ONE HAN THE MATERIANS TO THE TILLE FOR THAY ONE HAN ONE HAN ONE THAT OF THE TILLE FOR THAY ONE HAN ONE HAN ONE THAT OF THE TILLE FOR THAY ONE THAT OF T

DO NOT BURY OF BURN IKED TIPES SOLID WASTE MANAGEMENT

DESCRIPTION AND PURPOSE

SOLID WASTE MANAGERIT PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT OR REDUCE THE POTT FOR DISCHARGE OF POLLITARIS TO STORMANTER FROM SOLID OR CONSTRUCTION INSITE BY PROVIDING DESIGNATED INSITE COLLECTION AREAS AND CONTAINERS, ENGINES REGULAR DISPOSAL, AND TRAINING OF EMPLOYEES AND SECONTRACTORS

SUITABLE APPLICATIONS

THIS PRACTICE IS APPLICABLE FOR CONSTRUCTION SITES WHERE THE FOLLOWING WASTES ARE GENERATED OR

DOMESTIC MASTES INCLIDE: FOOD CONTAINERS, BEVERASE CONTAINERS, COFFEE CUPS, PAPER BASS, PLASTIC WRAPPERS STYROFOLM AND CUSARETIES CONSTRUCTION WASTES INCLIDING BRICK, MORTAR, TIMBER, STEEL AND METAL SCRAPS, PIPE AND ELECTRICAL CUITINES, IXONAZARDOUS EQUIPMEN PARTS, STYROFOAM AND OTHER MATERIALS SEND TRANSPORT AND PARKAGE FORSTRUCTION AND THE BULS.

<u>implementation</u> The following steps will Aid in Keeping the site clean and reduce the potential for storywater

SELECT A DESIGNATED HASTE COLLECTION AREA CASITE THAT IS DOWNSTREAM FROM THE STORMMATER COLLECTION SYSTEM AND AT LEAST 50 FEET AWAY FROM ALL MATERNAYS AND FLOOD PLANS.

INFORM THE TRASH-HAULING CONTRACTOR THAT ONLY WATERTIGHT DUMPSTERS FOR ONSITE USE WILL BE ACCEPTED INSPECT DAMPSTERS WEN THEY REACH THE SITE FOR LEAKS. RELECT ANY DAMPSTER THAT IS NOT MATERITISHT OR IS DEFECTIVE.

PROVIDE AN ADEQUATE NAMEER OF CONTAINERS WITH LIDS OR COVERS TO KEEP RAINWATER OUT AND TO PREVENT LOSS OF MATERIALS DIE TO NINDY CONDITIONS.

ALLON FOR ADDITIONAL DAMPSTERS OR MORE FREQUENT PICKLYPS DARING THE DEMOLITION PHASE OF CONSTRUCTION TO INSURE TRASH MATERIALS DO NOT GET STORED ON THE GROUND.

HAVE SITE TRASH COLLECTED DAILY. DURING RAINY AND HINDY CONDITIONS IT MAY BE NECESSARY TO COLLECT TRASH MORE THAN ONE & DAY REMOVE SOLID MASTE MATERIALS PROMPTLY FROM THE SITE SINCE EROSION AND SEDIMENT CONTROL MEASURES. TEND TO COLLECT TRASH MICH HINDERS THE EFFECTIVENESS OF THE EROSION CONTROL MEASURES.

NEURE THAT TOXIC LIQUD MAGTES SUCH AS USED OILS, SOLVENTS, AND PAINTS AND CHEMICALS SUCH AS ACIDS, PESTICIDES, ADDITIVES, AND CIRRIS COMPOUNDS ARE NOT DISPOSED OF IN DIMESTERS DESIGNATED FOR CONSTRUCTION DEBRIS BUT ARE PROPERLY TREVIOLED OF ACCORDING TO LOCAL AND STATE LAND. DO NOT MASH OUT DIMPSTERS ON THE CONSTRUCTION SITE. DIMPSTER CLEANING SHOULD BE THE RESPONSIBILITY OF THE TRACE HALLING CONTRACTOR.

ARRANSE FOR REGULAR NASTE COLLECTION BEFORE DUMPSTERS OVERFLON. DO NOT PILE MATERIAL ABOVE THE DUMPSTER SIDE OR ALLOW MATERIAL TO DRAPE OVER THE SIDES.

IMPEDIATELY CLEAN UP DUMPSTER SHOULD A SPILL OCCUR.

MAKE SURE THAT CONSTRUCTION WASTE IS COLLECTED, REMOVED, AND DEPOSED OF IN A TIMELY MANOR BY AN AUTHORIZED DISPOSAL CONTRACTOR.

INSPECTION AND MAINTENANCE

NOFECT AND VERIFY THAT PRACTICES ARE IN PLACE PRIOR TO THE START OF EACH ASSOCIATED ACTIVITY, WHILE ACTIVITIES ARE IN PROGRESS, INSPECT EACH PRACTICE WEEKLY TO VERIFY CONTINUED IMPLEMENTATION.

KEEP ADEQUATE SUPPLIES OF SPILL CLEAVEP MATERIALS CHOITE. INSURE THAT ALL EMPLOYEES ARE AWARE OF MATERIAL STORAGE LOCATIONS AND ACCESS CAN BE OBTAINED TO THE MATERIALS.

MANTAIN FLIID WASTE CONTAINERS IN LEAK PROOF CONDITION. REMOVE AND REPLACE ANY CONTAINERS FOUND TO BE DETECTIVE.

VEHICLES AND EQUIPMENT SHOULD BE INSPECTED AT THE START OF EACH DAY, INVEDIATELY REPAIR ALL LEAKS. IT IS PREFERRED THAT THE PROBLEM VEHICLE OR EQUIPMENT BE REMOVED FROM THE PROJECT SITE FOR REPAIRS TO MINIMIZE OWNER HEPACH.

INSPECT EQUIPMENT FOR DAMAGED HOSES AND LEAKY GASKETS DAILY, IMMEDIATELY REPAIR OR REPLACE FAULTY

DESCRIPTION AND PURPOSE

VEHILE AND EQUIPARTI RELING PROCEDURES AND PRACTICES AND EXCENSED TO PREVENT REL. SPILLS ON LEAKS AND REDICE OR ELMINATE CONTRANSTON OF SOLES AND STORMANTER THIS CAN BE ACCOMPLISED BY USING OFFSITE PACKLIFES, RELING IN DESIGNATIO DISCIPLE ARASO ACT, BUCCORDIO OR CONFRING STORED MATERIAL, UTILIZAS SPILL PROCEDURES, AND TRANSIS D'PLOTEES AND SUBCONTRACTIONS IN PROPER FIELING

LIMITATION

IMPLEMENTATION.

OGITE VEHICLE AND EQUIPMENT RELING SHOULD ONLY BE DOZE WEN IT IS NOT FEASIBLE TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR RELING, VEHICLES AND EQUIPMENT ENTERNS AND EXTING THE SITE SHOULD ALWAYS BE DOZE AT THE SHOULD CONSTRUCT METHRANGE/EDT.

THE USE OF OFFSITE FIELING STATIONS IS ENCORPAGED MEDIEVER FEASIBLE. THESE FACILITIES ARE EQUIPPED TO HAVOLE FIELING AND SPILLS PROPERTY. THEORY THIS MORK OFFSITE MAY BE MORE ECONOMICAL BY ELIMINATING THE MEED FOR A SEPRANTIC DESIGNATION FOR LINEA AREA AND CONTINUED MEASURES ONSITE. DISCOURAGE EMPLOYEES FROM "TOPPING-OFF" FUEL TANKS TO PREVENT UNECESSARY SPILLS

ABSORBENT SPILL CLEANLY MATERIALS AND SPILL KITS SHALL BE AVAILABLE IN ONSITE RELING AREAS AND ON MOBILE RIGING TRUCKS. PROPERLY DISPOSE OF USED MATERIALS AFTER USE.

ASSORBENT PADS OR DRIP PANG SHOULD BE USED DURING VEHICLE AND EQUIPMENT FLELING INLESS THE FLELING IS PERFORMED OVER AN IMPERVIOUS SURFACE WITHIN A DEDICATED FLELING AREA.

ABSORBERT MATERIALS FOR SMALL SPILLS SHALL BE USED. DO NOT WASH OR BURY THE SPILL MATERIAL AS THIS ONLY RESULTS IN ADDITIONAL INSPEDIATION REQUIREMENTS, REMOVE THE CONTAMINATED ABSORBERT MATERIALS PROPRIET AND DISPOSE OF PROPRIETY ACCORDING TO LOCAL, AND STATE LAWS.

AVOD RELING OF CONSTRUCTION EQUIPMENT AT VARIOUS LOCATIONS AROUND THE SITE. TRANSPORT THE VEHICLE OR EQUIPMENT TO DESIGNATED ONSITE FRELING AREAS INFERE ADEQUATE PREVENTION AND SPILL CONTAINMENT MATERIALS ARE LOCATED.

DEDICATED RIGHING AREAS SHOULD BE PROTECTED FROM STORMWATER INFLITRATION AND RINGEF, AND SHOULD BE LOCATED AT LEAST 50 FT AWAY FROM DOWNSTREAM DRAINAGE FACILITIES, MATERVAYS, AND FLOOD PLANS FIELING MIST BE PEFFORWED IN A LEVEL AREA.

EMPLOYEES AND SUBJONITIACTORS SHOULD BE TRAINED IN PROPER FIELING AND CLEAN P. PROVED INFO.

PROTECT FLELING AREAS WITH BERYS OR DIKES TO PREVENT INFILTRATION, RINOFF, AND TO CONTAIN SPILLS NOTALES USED IN VEHICLE AND EQUIPMENT RIELING SHOULD BE EQUIPMED WITH AN AUTOMATIC SHUTGHT TO CONTROL SPILLS AND DRIPS, RIELING OPERATIONS SHOULD BE MONITORED BY THE RIELING OPERATOR AT ALL TIMES.

FEDERAL, SLATE, AND LOCAL REQUIREMENTS SHOULD BE OFFICERVED FOR ANY TEMPORARY ABOVE GROUND STORAGE TANKS

<u>INSPECTION AND MANIFEMANCE</u>
VEHICLES AND EQUIPMENT SHOULD BE INSPECTED DAILY FOR LEAKS, LEAKS SHOULD BE REPAIRED INVEDIATELY
PRETERRARY INTO THE PROJECT VEHICLE OR EQUIPMENT REMOVED FROM THE PROJECT SITE FOR REPAIR.

MANTAIN ADEQUATE SUPPLIES OF SPILL CLEANLY MATERIALS ONSITE AND INSURE ALL PERSONNEL KNOW THEIR STORAGE

IMPEDIATELY CLEAN IP SPILLS AND PROPERLY DISPOSE OF CONTAMINATED SOIL AND CLEANLY MATERIALS ACCORDING TO LOCAL AND STATE LAYS. COLLECTION, STORAGE, AND DISPOSAL OF MATERIALS

TO PREVENT CLOGGING OF THE STORM DRAINAGE SYSTEM LITTER AND DEBRIG SHOULD BE REMOVED FROM DRAINAGE GRATES, IRASH RICKS, AND DITCHES DALLY.

TRASH RECEPTACLES SHOULD BE PROVIDED IN THE CONSTRUCTION STAGING AREAS, FIELD TRAILER AREAS, AND AREAS UTILIZED FOR LINCH AND EXEAY FERIODS.

DOMESIO, TRACH PROM NORS, MEANS WITHIN THE CONSTRUCTION LIMITS OF THE SITE SHALLD BE COLLECTED AND PLACED A WINETINGTO TRANSPERS HEALT, AT A WINNING DOMESION TRACH SHOULD BE COLLECTED FROM THE SITE REASONALES OF THE SORVE COLLECTED LITTER AND DEBRIS SHOULD NOT BE PLACED IN OR HEAT TO THE STORYWHITE TRANSPORTSTED. OR NATIONALS

DIMPSTERS OF SUFFICIENT SIZE AND QUANTITY SHOULD BE PROVIDED TO CONTAIN THE SOULD WASTE GENERATED BY THE BROLECT. DIMPSTERS SHOULD BE REMOVED FROM THE PROJECT SITE ONCE THEY BECOME FULL AND THE CONTENTS DISPOSED OF BY THE TRASH HALLING CONTRACTOR.

COGNICATION DEPOS NO MENT SHOULD BE SERVED FREM THE SIE HEBLY OR HORE FREMENTI AS REGISED. THE COMPANION BY DO JUST THESE BEST LIDOREN IN INTERNION DIEN A DIMPSTEM LE RILL AND CHEDILLA PACCIP NATIONALE OF THE DIMPSTEM BERN INLL. TO HERVENT OVER TOPPING OF THE DIMPSTEM OR TRANSPORT OF EACH METRICA. OTHER GROUP.

CONSTRUCTION MATERIAL VISIBLE TO THE RIBLIC SHOULD BE STORED OR STACKED IN AN ORDERLY MANNER AWAY FROM THE STORM DRAINAGE SYSTEM MATERIALYS, AND FLOOD PLAIN. STORMWATER RINOFF SHOULD BE DIVERTED FROM STORED SOLID WASTE THROUGH THE USE OF BERYS, DIKES, OR OTHER TEMPORARY DIVERSION STRUCTURES OR THROUGH THE USE OF MEASURES TO ELEVATE THE WASTE COLLECTION DUMPSTER.

NSPECTION AND MAINTENANCE NOFECT AND VERIFY THAT ACTIVITY-BASED PRACTICES ARE IN PLACE PRIOR TO THE START OF CONSTRUCTION IN THAT AREA. INSPECT EACH PRACTICE MEETLY TO VERIFY IMPLEMENTATION.

INSPECT CONSTRUCTION WASTE COLLECTION AREA REGULARLY TO INSURE ALL WASTE MATERIALS ARE BEING DISPOSED OF PROPERLY.

ARRANGE FOR REGULAR WASTE COLLECTION WITH A TRASH HALLING CONTRACTOR.

CONCRETE AND MASONRY WASHOUT AREAS THE FOLIONIS STEPS MIL HELP REDUCE STORMANTER POLIUTION FROM CONCRETE AND MASORY INASTES, DISCUSS THE CONCRETE MANUSCHENT TECHNICES DESCREED, SICH AS HANDLING OF CONCRETE HASTE AND INASPOJI AREAS MINI THE REPORTMAN CONCRETE SHIPS DES TECHNICA MY DELIMENS ARE MADE, DISCUSS HEADRING HASTE MANUSCHENI TECHNICAS WITH THE MASORY CONTRACTORS FOR THE CONTROL OF CEPTIT MURR MAHOUT AREAS.

INCORPORATE REQUIREMENTS FOR CONCRETE AND MASCHRY WASTE MANAGEMENT INTO MATERIAL SUPPLIER AND SUBCONTRACTOR ASPETMENTS.

STORE DRY AND LIQUID MATERIALS IN A COVERED AREA AWAY FROM DRAINAGE AREAS. PREVENT MASCHRY SAND STOCKPILE FROM INACHING INTO STREETS, STORM DRAINAGE SYSTEMS, AND MATERIAN'S

AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR MORTAR. PERFORM WASHOUT OF CONCRETE TRUCKS OFFSITE OR IN DESIGNATED AREAS ONLY.

PERFORM MORTAR MIXER WASHOUT IN ONE DESIGNATED AREA FOR THE DURATION OF THE PROJECT.

DO NOT WASH OUT CONCRETE TRUCKS OR MORTAR MIXERS INTO STORM DRAINS OPEN DITCHES STREETS OR WATERWAYS DO NOT ALLOW EXCESS CONCRETE OR MORTAR TO BE DUMPED ONSITE. EXCEPT IN DESIGNATED AREAS.

DO NOT ALLANDON AREAS.

1.CX ASTER INVESTOR FAREAS.

1.CX ASTER INVESTOR F

SITE CLEARING SPECIFICATIONS:

FORENAL, JOSINOS CILLI TINZE MEDIO SPECIFICID IN POLY STARE, STOCKPILE TOPSOIL IN STORAGE PILES IN AREAS INDICATED OR RIFECTED. CONSTRUCT STORAGE PILES, TO PROVIDE FREE DRAINAGE OF SURFACE WATER. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 TEET, STOCKPILE SLOYES MAST BE 21 OR FLATTER, COVER STOCKPILE BY NOVEMBER 30TH TO PREVENT EROSION FROM WHITE NEATHER, WEN APPLICABLE.

3. DISPOSE OF UNSUITABLE OR EXCESS TOPSOIL AWAY FROM THE SITE ANCE WITH REQUIREMENTS SET FORTH BY LOCAL AUTHORITIES HAVING JURISDICTION.

CLEAR AND GRUB TREES, SHRUBS, AND OTHER VEGETATION FROM AREAS DELINEATED. PROTECT VEGETATION INDICATED TO REMAIN.

REMOVE EXISTING IMPROVEMENTS ABOVE-GRADE AND BELOW-GRADE AS INDICATED TO FACILITATE NEW CONSTRUCTION.

EROSION CONTROL MAINTENANCE SPECIFICATIONS

CONSTRUCTION ENTRANCE/EXIT

INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY USE.

RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. INVEDIATELY REMOVE MID AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OF BASIN.

4. REPAIR OR REPLACE BROKEN OR DAMAGED ROAD PAVEMENT IMMEDIATELY.

KEPAIR OR REPLACE BROKEN OR DAMAGED ROAD PAYEMENT INFEDIATELY.
 SEDIMENT FINLE
 INSPECT SEDIMENT FINLE WEEKLY AND AFTER STORM EVENTS TO ENGINE THE CONDITION AND PARTHONING OF THE SEDIMENT FINCE. REMOVE ANY SEDIMENT DEPOSITS PROMPTLY.
 INSPECT THE SEDIMENT FINLE PERIODICALLY FOR DETERIORATION OR DAMAGE FROM CONSTRUCTION ACTIVITIES, AND REPAIR INVEDIMENT.
 AFTER THE CONTRIBITING WATERSHED HAS BEEN STABILIZED, REMOVE THE SEDIMENT FINLE AND THE SEDIMENT, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE IT.

SEDIMENT REMOVAL

ROCK CHECK DAMS . INSPECT THE ROCK CHECK DAM WEEKLY AND AFTER EACH STORM EVENT.

REMOVE SEDIMENT INEN IT ACCUMULATES TO HALF THE DESIGN VOLUME.

IF THE BASIN DOES NOT DRAIN BETWEEN STORMS, REPLACE THE STOKE ON THE UPSTREAM FACE OF THE DAM.

 IF THE BASIN DRAINS TOO RAPIDLY FOLLOWING A STORM (IN LESS THAN 6 HOURS) ADD INDOT CA No. 5 GRAYEL ON THE UPSTREAM FACE OF THE DAN ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED,
 A. REMOVE WATER AND SEDIMENT FROM THE BASIN B. REMOVE THE DAM, DISPOSING OF THE ROCK IN DESIGNATED DISPOSAL AREAS.

C. GRADE THE SITE TO BLEND WITH THE SURROUNDING AREA AND STABILIZE

 INSPECT THE FABRIC BARRIER AFTER EACH STORM EVENT, AND MAKE REPAIRS IMMEDIATELY. REMOVE THE SEDIMENT FROM THE POOL AREA TO PROVIDE STORAGE FOR THE NEXT STORM. AVOID DAMAGING OR UNDERCUTTING THE FABRIC DURING

AREA TO THE FLEVATION OF THE TOP OF THE INLET THEN STABILIZE

WE'N THE CONTRIBUTING WATERSHED AREA HAS BEEN STABILIZED, REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION MATERIAL AND SEDIMENT, GRADE THE

STRIP TOP SOIL TO APPROPRIATE DEPTHS ENCOUNTERED TO PREVENT INTERMINISHING WITH UNDERLYING SUBSOIL OR OTHER OBJECTIONABLE MATERIAL, DISTURB ONLY THOSE AREAS SPECIFIED IN EACH STAGE.

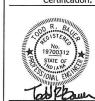
ight Consulting, LLC sional Engineers & Surveyors

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260.484.9900 phone
260.484.9900 phone ForeSight St.



Certification:

Better



Within some some of may purpose without the prior written permissis of Foreight Corolling, ILC. Written dismostors on these diswices yith Ill. not providence out the send dismostors. In contractor shall verify and be responsible for all dismostors to conditions on the job and Foreight Corolling, ILC must be notified of variation from the dismostors and conditions the such these dismostors, Soly undersy shall be abstituted to Foreight Corolling, ILC for approval before construction.

Performed for:



for:

Specifications

Control

Cif. ibia Colui 00

Buren Π Van West

Commission Number 182297

Drawing Revisions

Date February 8th, 2019 Title

Erosion Control Specifications Sheet Number

SURFACE STABILIZATION



- To provide permanent vegetative cover and improve visual anotheries of a project site.
- To reduce sediment-laden starm water mostly from being transported to descriptions are se

Grade and apply soil amendments

Seeding Frequency Seed final graded trens daily while soil is still loose and moint

Density of Vegetative Cover Ninety percent or preater over the soil surface.

PERMANENT SEEDING

Application

Site Preparation

Grinds has who to accuse posture during as Add lopoid (see: Lopoid Salvage and Utilization on page 25) or compost match free Compart Matching on page 59) to achieve needed doubt for enticlishment of vegenators, (Compost natural may be added to improve and most tree holding enpairly, settl histolity, and natural so valida-tion processors.

- Apply well amendments as recommended by the soil test and work into the upper two to four inches of soil. If setting it not done, apply 400 to 600 pounds per sore of 12-12-12 analysis fartilizer, or equivalent posson per sere of 12-12-12 analysis farilities, or equivalent.

 Till the seal to obtain a uniform sewfood. Use a drik or rake, operated serous the kippe, to work the sell assendances into the upper two to four melon of the seal.

Octours perfug dates are March I to May 10 and August I d to September 30. Permanent sending done between May 10 and August I d to September 30. gated. Seeding existed on beyond optimum seeding dates is will possible with the understanding that recording on overseeding may be experient if adequate sortice and extending that recording or overseeding may be experient if adequate sortice.

PERMANENT SEEDING

October 2007

- to on state contains well provided that makes. It shads used in that bood on the container, and [2] it intracted load me, and expected love of materiasms of popular statements with a fill of the prices reader use (Figure 1) or by brooks string (see Figure 2). Hence one or the reads as depth of sood factor, the contact by forming the product of the contact the contact contact by forming the soods of which after or chippade after conferring soods of perfect the contact that the conferring sood or popularies. (If sooding is show with a polissical rows Figure 3), ferrither and which are the option of the sood in a company solaries.)

- Import within 24 fours of each rain event and at least once every seven unleader days until the vegetation is successfully instablished.
 Characteristics of a successful that all colded vegetations after groun or british-groun socillarge with a uniform separative owner density of 50 percent or more.

- Creat Net method or non-method is maken.
 Repair damages here, galled, or provedy repeated areas and then fertilize, reserve, and apply and author materia.
 If plant comes in pages or pathy, or share the plant materials down, well fertilize, modern condition, and much application, repair affected areas offering by ourseasing or proporting as new mothod and recording. Apply and mother much to the newly worlded exert.

- nal fertilization is needed to pri a satisfactory stand, do so according test recommendations.
- Newtonian and an accountable. Apply fertilerer is a spit application. For coolections graines, apply encounted of the fertilerer in late spring and encounter for the fertilerer in late spring and encounter for the fertilerer in late spring, and the remaining constitute in middle enament.

Permanent Seeding

PERMANENT SEEDING

wring idle more than six months)					
Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Boli pl			
Perennial graphiss wrote clover	70 lbs 2 lbs	5.6 to 7.0			
Ferencal ryegises tell fescue	70 tos 50 tos	56 to 16			
all fetour	70 tos. 2 tos	851075			

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Sof pi	
Emooth brome great red alever	35 tos. 20 tos.	5.5 to 7.0	
al toccuo white clover	t0 bg. 2 ka.	6.5 to 7.5	
Tall fesque red clover	50 tos. 20 tos.	5.6 to 7.5	
Prefard grass red clover' white clover'	50 lbs. 20 lbs. 2 lbs	5.6 to 7.0	
Poervetch! (all fescuri	12 bs. 30 bs.	5.6 to 7.0	

Seed Minteres	Rate per Acre Pure Live Seed	Optimum Ecil ph	
f. Ekeguss	140 Ex.	55107.0	
2. Pertrinal gegrass (harf goe)	60 km. 80 km.	861:70	
Tall foscue (suffypu) thouses	170 lbs. 30 lbs.	56 m 7.5	

38 Chapter? Oracher Not

PERMANENT SEEDING

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
Ferential ryograus white	157 P.s. 2 ks.	6.5 to 7.0
Kertucky baugrass emogra bromograss emogra bromograss emograss timorny perennial ryagrass white chose	noom tromograss 10 fee stringman 2 fee noomy 4 fee 10 fee	
S. Tall feebus! - taffite clover!	167 lbs. 2 lbs.	6.5 to 7.5
4. Tall fetour' - partnraid ryograss - Kentusky blueg ass	150 Es. 27 Es. 20 Es.	5.5 to 7.5

(b) spring cate - one-fourth to three-fourths bushel per sore (b) aheat - no more than one-half tushel per sore A high potential for fortilizer, seed, and mulch to each exists on silvey backs, cuts, and in charmels and evens of porquest study flow.

Order No.

PERMANENT SEEDING







SURFACE STABILIZATION



me established of right growing autical grains or small grains to stabilize dis-tarbed areas until such time as a permanent, nonenistic tover can be established.

- . To reduce crossos and sedimentation damage by stabilizing disturbed areas To reduce problems associated with mad or deat from unwegetated soil surfaces during construction.
- To reduce sediment-laders storm water randif from being transported to downstream are as:

Seedbed Preparation

Grade and apply soil emendments Seeding Frequency

Seed rough graded areas daily while soil is still hore and moint Density of Vegetative Cover

Eighty percent or greater over the soil surface

TEMPORARY SEEDING

Beed Specials	Flate per Acre	Planting Depth	Optimum Dates
Witwest or Flye	150 bs.	1 to 1% inches	Sept. 15 - Oct. 30
Epring Cats	100 bs.	1 inch	March 1 - April 15
Ama Brog as	40 to.	34 Inch	March 1 - May 1 Aug. 1 - Bept. 1
Gomen Milet	4) bu.	1 to 2 inches	May 1 - June 1
Sudangrass	35 bs.	1 to 2 inches	May 1 - July 20
Bucksheet	60 056.	1 102 mones	April 15 - June 1
Corn (oreadostif)	307 bs.	1 to 2 inches	May 11 - Aug. 10
Sorghum	35 lbs.	1 to 2 inches	May 1 - 3,5/15

Potential speckes may be used as a temporary cover, expectelly if the area to be seeded will remain idle for more than one year five **Permanent Seeding** on page.

Secting does a saids the optimum seeding cates increases the charact of seeding failure. Dates may be extracted as shortened based on the location of this project site within the state.

32 Chapter 7

- Seedbed Preparation

 1. Test will to determine pH and numbers levels
- Apply well americances as recommended by the well test. If testing is not done, apply 400 to 600 pounds per acre of 12-12-12 analysis fortilizer, or equivalent.

Seeding







Figure 3: Hydroseeding

TEMPORARY SEEDING Application

- Work the soil amendments into the upper two to four inches of the soil with a disk or take operated across the slope.

Apply sood uniformly with a drill or cubipacker seeder or by broadcasting. Faul or cover seed to the depth shown in Table 1

Notice

1. Hiddling or broadcasting the word, enter good word-owned contact

1. Hiddling to broadcasting this word, enter good word-owned contact

1. However, the word of with a nation or exhapsive after completing

2. Hody wording when the will in not a instead; most eitherine.

3. If wording is done with a lyderworder, ferniture and model combe opposite with who words as when you have

Apply match (see Mulching on page 55 or Compost Mulching on page 59) and anchor if in place.

Import width 24 hours of each tain creat and a loan creat over year or volunte day.
 Oracle for creation or movement of midth and repair immediately.
 Mandate for created unique and adequate creat (60 process desary); moved, darking, excluding leads when creating leads with the case of the control of the cont

Chapter 7 33

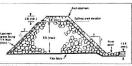
Temporary Seeding

Practice 3.76 Rock Dam



Activation of the expert to the continue of th Protection from piping: Generale Orbits for separation and Elevation covering make foundation, including such abstracts and agree.

Balla does storing: Through a left thick layer of PADOT CA No. 5 store on approximation of the date.





have total properly dispessing of the eleveral mutar of

det a morker scale to inficien the classoral electrics (i.e., post at which the limit as 37% full of
medianes).

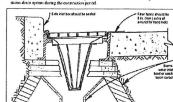
Devet (qual-scales tile restall flow into the upper and of the brain using symposisy discretions

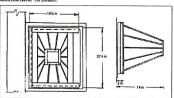
3. Subfile at ill disminsted seam compt the levers had of the brain.

Rock Dam

Practice 3.63 Basket Curb Inlet Protection

To prevent excessive activatest from entering storm sowers at curb talets, allowing full use of the storm drain system during the construction period.





3 63-1

Inspect after each storm event
 Ramove built-up redirect and replace the geotestile fabric after each storm event.
 Periodically renove padiment and track do do still feet the street (but not by flushing with wa-ter) to reduce the sediment load on this curb side practice.

Location: At early index where barriers surrounding them would be impractical or associate Contributing Fertilage area; 10 area massesson. Capacity: Read from 12 by frequest, 45-the districts storm event extensing the norm deals without bypass flow. Basket: Fabrican and wish top width-length dimensions such that the bask of for into the insultant gape (see Eachier 26 d. or d.f.). Celebrating the Capacity of Eachier 26 d. or d.f.). Celebrating the Capacity of Eachier 26 d. or d.f.) Exhibit 1.61.8. Ton your dath and boot your triable of a bestel our boole or about

- I harall besket cush laist pretentions as soon as laist boxes are installed in a new development of before hard-disturbing solvitisc begin in a stabilization area.
 I forecastly, abst packet demonsteas for failed too demonsteas, which vary according the manufacture study model.
 So all the site is the too lose types of idel bests that have them.
 So all the site is the too lose types of idel bests that have them.
 Compared to the properties of the best of the last them.
 Compared to the properties of the study of the study of the last of the basket and extend at least 6 is to perchain from the properties of the last of the last perchain the properties of the last of the last perchain the properties of the last perchain the perchain the properties of the last perchain the perchain

Sediment not removed and generally fasteric ant replaced following a storm event—result in in-creased rediment update, until basend, and exactive peeding control for the properties of the properties of the properties of the peeding colliment extent the drain life faster levels. Drainage area too large—results in colliment overload and severe poording sediment outers the drain if the large to trains.

Basket Curb Inlet Protection

Control Details for: U

Erosion

BIG DEVELOP L DERS

Commission Number

Details Sheet Number

Creating a Better

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is an original design created by ForeSight Consulting, ILC

Performed for:

46725 Indiana

Citá Columbia

Street, Buren Van **6**5 West

306

Site Drawing Revisions

182297

Date February 8th, 2019 Title **Erosion Control**

Concrete Washout Detail



Concrete washout areas are designated locations within a construction site that are either a prefabricated unit or a designed measure that is constructed to contain concrete washout. Concrete washout systems are typi-cally used to contain wash-out water when chutes and hoppers are rinsed following

Concrete washout systems are implemented to reduce the discharge of pollutants that are associated with concrete washout water through consolidation of solids and restention of ligids. Uncured concrete and associated ligids are highly field-line which may leach into the soil and contaminate ground water or discharge to a waterfood go well-and which can extent optionable manufal to again title. Performing covered washout in designated areas and into specifically designed systems reduced the impact concrete washout in designated areas and into specifically designed systems reduced the impact concrete washout will large on the environment.

Site Management

- Complete construction installation of the system and have washout locations operational prior to concrete delivery.
- Do not wash out concrete trucks or equipment into storm drains, wetlands, streams, rivers, creeks, ditches, or streets.
- Where necessary, provide stable ingress and egress (see Temporary Construction Ingress/Egress Pad on page 17).
- It is recommended that washout systems be restricted to washing concrete from mixer and pump trucks and not used to dispose of excess concrete or

CONCRETE WASHOUT

idual loads due to potential to exceed the design capacity of the washout system. Small amounts of excess or residual concrete (not washout water) may be disposed of in areas that will not result in flow to an area that is to be protected.

- Install systems at strategic locations that are convenient and in close provimity to work areas and in sufficient number to accommodate the derund for disposal.
- Install signage identifying the location of concrete washout systems.

Location

- Locate concrete washout systems at least 50 feet from any creeks, wetlands, ditches, karst features, or storm drains/mammade conveyance systems.
- To the extent practical, locate concrete wathout systems in relatively flat areas that have established vegetative cover and do not receive runoff from adjacent land areas.
- Locate in areas that provide easy access for concrete tracks and other construction equipment
- Locate away from other construction traffic to reduce the potential for damage to the system.

General Design Considerations

- The structure or system shall be designed to contain the anticipated washout water associated with construction activities.
- The system shall be designed, to the extent practical, to eliminate runoff from entering the washout system.
- Runoff from a ministerm or snowmelt should not carry wastes away from the washout location
- Washout systems/containment measures may also be utilized on smaller individual building sites. The design and size of the system can be adjusted to accommodate the expected capacity.

Prefabricated Washout Systems/Containers

Self-contained sturdy containment systems that are delivered to a site and located at strategic locations for concrete disposal.

October 2007

CONCRETE WASHOUT

- These systems are manufactured to resist damage from construction equipment and protect against leaks or spills.
- Manufacturer or supplier provides the containers. The project site manager maintains the system or the supplier provides complete service that includes maintenance and disposal
- Units are often svailable with or without ramps. Units with ramps lend them-selves to accommodate pump tracks.
- Maintain according to the manufacturer's recommendations.

Designed and Installed Units Designed and installed on site. They tend to be less reliable than prefabricated systems and are often proon to failure. Concrete washout systems and see not be constructed above or below grade. It is not uncommon to have a system that is partly below grade with an additional construction as tructure above grade.

- Washout systems shall stilline a pit or bermed area designed and maintained at a capacity to contain all liquid and concrete waste generated by washout
- The volume of the system must also be designed to contain rar off that drains to the system and rainfall that enters the system for a two-year frequency, 24 hour them event.

■ Below Grade System

- A wabot system intalled below grade should be a minimum of tent
 few wide by ten feet hop, but sixed to centain all liquid and wrate
 fall is expected to be generated between schedule charact periods.
 The size of the pil may be limited by the size of polyethylene
 available. The polyethylene luning should be of adequate size to
 extend over the entire execution.
- Include a minimum 12-inch freeboard to reasonably ensure that the structure will not overtop during a rain event.
- . Line the pit with ten millimeter polyethylene lining to control scepage
- . The bottom of excavated pit should be above the seasonal high water

■ Above Grade System

A system designed and built above grade should be a maintanu of ten feet wide by ten feet long, but sized to contain all ligids and waste that is expected to be generated between sebeduled element periods.
 The size of the containment system may be limited by the size of

CONCRETE WASHOUT

- Inspect daily and after each storm event.
- Inspect the integrity of the overall structure including, where applicable, the
 containment system.
- Imspect the system for leaks, spills, and tracking of soil by equipment.
- . Inspect the polyethylene lining for failure, including tears and punctures . Once concrete wastes harden, remove and dispose of the material.
- Upon removal of the solids, inspect the structure. Repair the structure as needed or construct a new system.
- Dispose of all courter in a legal maner. Reuse the material on site, recycle,
 or head the material to an approx of construction/demolition landfills size.
 Recycling of material it resources goal. The water natural can be used for
 mathyle applications is holising but not limited to roadbook and building.
 The availability for recycling themolities chooling but here.
- The plastic liner should be replaced after every cleaning; the removal of material will usually damage the lining.
- The concrete washout system should be repaired or enlarged as necessary to maintain capacity for concrete waste.
- marrian cipies to decement water.

 Concrete washing stytims are claimed to promote evaporation. However, if the liquids do not evaporate and the system is near expectly it may be necessary to season or remove the liquids and dispose of them is an accept she method. Disposal cuty be allowed at the local studies are specified provided them, when also affected to the local studies provided them. In the allowing Filmination System permits allow for acceptance of this material. Another spoken would be to utilize a secondary continuously without the little further developed washing them.
- Prefabricated units are often pumped and the company supplying the unit provides this service.
- Inspect construction activities on a regular basis to ensure suppliers, contra-tors, and others are utilizing designated washout areas. If concrete waste is being disposed of improperty, identify the violators and take appropriate action.

282	Charles 7

CONCRETE WASHOUT

- Metal pins or staples at a minimum of six inches in length, sandbags, or alternative fastener to secure redverbylene lining to the containment system

Installation

- Install the polyethylene lining. For excavated systems, the lining should extend over the entire excavation. The lining for bernard systems should be installed over the pooling new with enough nutrief to extend the lining over the berm or econtainment system. The lining should be secured with pins, sta-ples, or other fastems.
- Place flags, safety fencing, or equivalent to provide a barrier to construction equipment and other traffic.
- Place a non-collapsing, non-water holding cover over the washout facility prior to a predicted rainfall event to prevent accumulation of water and possible overflow of the system (optional).

ker 2007	Chapter 7

CONCRETE WASHOUT

polyethylene available. The polyethylene lining should be of adequate size to extend over the berm or containment system.

- The system design may utilize an earthen berm, straw bules, sandbags, or other acceptable barriers that will maintain its shape and integrity and support the polyethylene lining.
- Include a minimum four-inch freeboard as part of the design

Washout Procedures

- Do not leave excess mud in the chutes or hopper after the poin. Every effort should be made to energy the chutes and hopper at the poin. The less material full in the chutes and hopper, the quicker and easier the chanced. Small amounts of excess received (not wealthout water) may be disposed of fin areas that will not result in flow to an area that is to be protected.
- . Remove as much mud as possible when washing out.
- Stop washing out in an area if you observe water running off the designated area or if the containment system is leaking or overflowing and ineffective.
- Do not back flash equipment at the project site. Back flashing should be restricted to the plant as it generates large volumes of water that more than likely will secred the expacting of most washord systems. If a moregoncy arises, back flush should only be performed with the permission of an on-si manager for the project.

Materials

- Minimum of ten millimeter polyothylene abeeting that in free of holes, tears, and other defects. The sheeting selected should be of an appropriate size to fit the walshood system subsort earns or overlap of the lining (designed and installed systems).
- · Signage.
- Straw bales, sandbags (bags should be ultraviolet-stabilized geotextile fabric), soil material, or other appropriate materials that can be used to construct a continuous system (above grade system).

CONCRETE WASHOUT

- When concrete washout systems are no longer required, the concrete washout systems shall be closed. Dispose of all hardened concrete end other materials used to construct the system.
- Holes, depressions and other land disturbances associated with the system should be backfilled, graded, and stabilized.

Chapter 7 253

CONCRETE WASHOUT

- Non-collapsing and non-water holding cover for use during rain events (outloned).

Prefabricated Washout Systems/Containers

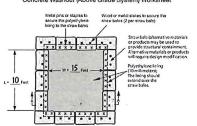
- Designed and Installed Systems
- Utilize and follow the design in the storm water pollution prevention plan to install the system. Dependent upon the type of system, either excavate the pit or install the containment system.
- A base shall be constructed and prepared that is free of rocks and other debris that may cause tears or practures in the polyethylene lining.

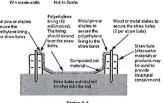
- Install signage that identifies concrete washout Post signs directing contractors and suppliers to

to the strewbales should extend polyethylene
/ Over the straw lining to the /
n (aher
Companied out page page page page page page page page
Section A-A Not to scale

October 2002

Concrete Washout (Above Grade System) Worksheet





- Broadcast soil amendments as recommended by a soil test and work into the upper two to four inches of soil before it freezes. If testing was not done, apply 200 to 300 pounds per acre of 12-12-12 analysis fertilizer, or equiva-
- Solect an appropriate seed species or mixture from Table 1 for temporary seeding or Table 2 for permanent seeding. Broadcast the seed on the seeding or table 2 for permanent seeding. Broadcast the seed on the seeding smooth cover of the risk shown (Seed areas when the self is frozen. Do not worth the self is those all).

Maintenance

October 2007

- Fertilize that areas mountly. Apply fertilizer in a split application. For cool-season grasses, upply one-half of the fertilizer in late spring and one-half in early full. For warm-season grasses, apply one-third in early spring, one-th-in late spring, and the remaining one-third in middle summer.

Arrivel ryegress 60 lbs.

Table 2 provides several seeding options. Additional seed mixtures are available commercially. When selecting a mixture, consider site conditions, including said properties (e.g., tool pill and distinage), stope aspect, and the splerance of each species to shade and drough.

Dormant Seeding Detail

SURFACE STABILIZATION

Dormant Seeding & Frost Seeding



Frust seeding is a tempora perminent seeding application in late winter when soils are in the freeze-thou stage. This measure can be used to repair or enhance areas having this or declaring vegetathe cover or to revegetate an area.)

- To provide early germination and soil stabilization in the spring
- To reduce sediment-laden storm water runoff from being transported to downstream areas.
- To improve the visual seathetics of the construction area.

· To repair or enhance previous seeding

Specifications

Seedbed Preparation

Grade and apply soil aracadments as recommended by a soil test (incorporate soil amendments into soil prior to soil freezing).

Density of Vegetative Cover

Eighty percent or greater over the soil surface.

Seil Amendments – Select materials and rates as determined by a tool test (contact your county out and water conservation district or cooperative sets store office for sentiatives and soil officeration including available will exist, servicely or 2001a 300 penuls of 12-12-12 analysis fertilizer, or organization. Consider the use of reduced ploughours application where will test indicate adequate processors level in the soil profile.

- DORMANT SEEDING & FROST SEEDING

October 2007

Straw, hay, wood fiber, compost, etc. (to protect seedbed, retain moistate, and excussing plant growth)
 Anchored to precent removal by wind or water or covered with preminisationaries or covered with.

Application

(see Tables 1 and 2) Site Preparation

Add topsoil (see Topsoil Salvage and Utilization on page 25) to achieve needed depth for establishment of vegetation

- Dormant Seeding
- Test soil to determine pH and notrient levels.
- Less on to occurrance per and naturent revers.

 Broadcast soil amendments as recommended by a soil test and work into the upper two to four inches of soil. If testing was not done, apply 200 to 300 pounds per acre of 12-12-12 analysis fertilizer, or equivalent. Apply and anchor mulch (see Mulching on page 55 and Compost Mulching on page 59) immediately after completion of grading and addition of soil amendments.

Select in appropriate seed species or mixture from Table 1 for temporary seeding or Table 2 for permanent seeding. Broadcast the seed on top of the match and see into existing ground cover at the rate shown. (Seed areas whe seed temporatures are below 50° F but the soil is not frozen.)

Seed is broadcast over the prepared seeded and incorporated into the soil by natural freeze-than action.

1. Test soil to determine pH and nutrient levels.

- DORMANT SEEDING & FROST SEEDING

- Inspect at least once every seven calendar days.
- Check for inadequate cover (loss than 10 percent density over the soil surface), record and maleb in mid to late April If necessary. For best results, record within the recommend of dates shown in Temporary Seeding on page 31 and Perroment Seeding on page 35.
- Apply 200 to 300 pounds per acre of 12-12-12 analysis fertilizer, or equiva-lent, between April 15 and May 10 or during periods of vigorous growth.

Seed Species	Rate per Acre
Wheatorgo	150 lbs.
Spring outs	150 bs.

DORMANT SEEDING & FROST SEEDING

Seed Mixtures	Rate per Acre Pure Lire Seed	Optimum Soi pH	
Perennial rysigness white player	76 km. 3 km.	5.6 to 7.0	
Kontucky biuegrans smooth bromegrass switchgrass imothy personal ryegrass white clover	30 lbd. 15 lbs. 5 lbs. 6 lbs. 15 lbs. 3 lbs.	5.6 to 7.5	
Perennial ryagrase tat fecous!	45 ibs. 46 ibs.	5.6 to 7.0	
4. Tall forcue? - white clover?	75 lbs. 3 lbs.	5.5 to 7.5	

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH	
Emouth bromegrans red clover*	50 fbs 30 fbs	5.5 to 7.5	
2 Tail fescue! - white diover!	75 liza 3 lbs.	6.6 to 7.5	
Tail fesque ² red blover	75 fbs 30 fbs	6.5 to 7.5	
Orchardgress red diover* white dover*	45 lbn 30 lbs 3 lbs	5.6 to 7.0	
6. Crownvetch* - tal fescue	16 lbs 45 lbs	5.6 to 7.0	

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH	
1. Bluegrass	210 lbs.	5.5 to 7.0	
Perennial ryograss (furf type) - bluegrass	90 lbs 135 lbs	5.6 to 7.0	
Tai fencire (buf type)* bluegraps	250 lbs. 45 lbs.	5.6 to 7.5	

DORMANT SEEDING & FROST SEEDING

Seed Mixtures	ead Mixtures Rate per Acre Pure Live Seed	
Percruis' ryogram unite clover*	225 lbs. 3 lbs.	5.6 to 7.0
Kentucky bluegrass smooth bromegrass buildingrass bincitry perennial ryegrass white clover	90 lbs. 15 lbs. 5 lbs. 6 lbs. 15 lbs. 3 lbs.	5.5 to 7.5
3 Tall fescue! - white clover!	225 tha. 3 for.	5.5 to 7.5
Tall festive ¹ perennial ryegrass	225 fox. 30 fos.	55 to 75

- For best results. (2) legume send should be loculabled, (b) sending informers containing legumes should only refeatly, be soring sended, although some should all the ground may be less and and of the disk and less should send the sended sen

October 2002

Chapter 7 45

Seed Mixtures	Rata per Acre Pure Live Seed	Optimum Soil pH 5.6 to 7.0	
Percruis' ryograss unite clover*	225 lbs. 3 lbs.		
Kentucky bluegrass smooth bromegrass switchgrass brothy perennial ryegrass white clover	99 lbs. 15 lbs. 5 lbs. 6 lbs. 15 lbs. 3 lbs.	5.5 to 7.5	
3 Tall fesque! - white clover!	225 ths. 3 fpg.	5.5 to 7.5	
Tall festure ¹ perennial rysprass Kentucky bluegrass	225 fcm, 30 fcs. 30 fcs.	55 to 7.5	

- A high potential for first izer, seed, and mulch to wash suists on steep banks, cuts, and in channe's and areas of concentrated tow.

Indiana



Details

Control

Erosion

Site

reyors #51 #6825 So fax te.biz

ForeSight Consulting, LL(

Professional Engineers & Surveyo

Fort Wayne, Indiana 4682

Sof. 484.9900 phon

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Certification:

No. 19700312 STATE OF

Tadlebaun

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these drawings. Shop drawings shall be submitted to ForeSight

Performed for:



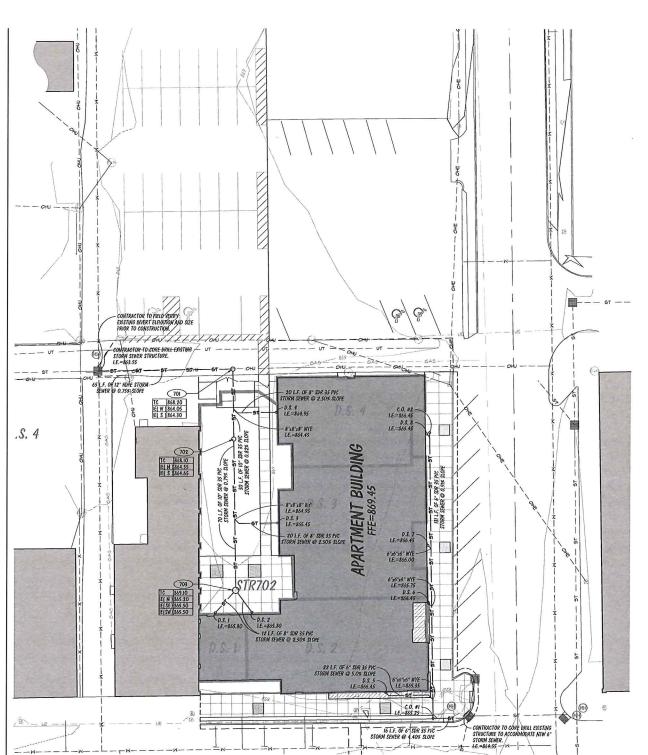


Drawing Revisions

Commission Number 182297

Date February 8th, 2019 Title

Erosion Control Details



Stormwater Management Plan

Scale: 1" = 20'

Storm Sewer Computations

701 FX 0.10 0.10 0.95 0 0.00 30 0.14 4.46 6.34 0.09 0.15 0.95 1.21 2.16 12 0.77% 0.013 3.13 3.98 65 D.S. 1 703 0.02 0.02 0.95 40 3.00 3.00 3.00 6.75 0.02 0.02 0.10 0.00 0.10 8 3.50% 0.013 2.26 6.48 20 5% 865.45 864.75 D.S. 1 703 869.10 D.S. 2 703 0.08 0.08 0.95 68 3.00 3.00 3.00 6.75 0.08 0.08 0.52 0.00 0.52 8 3.50% 0.013 2.26 6.48 20 23% 864.95 864.25 D.S. 2 D.S. 3 703 0.09 0.09 0.95 78 3.00 3.00 3.00 6.75 0.06 0.06 0.39 0.00 0.39 8 2.50% 0.013 1.91 5.47 20 20% 864.95 864.45 D.S. 4 702 D.S. 4 702 0.06 0.06 0.95 68 3.00 869 10 2.00 2.00 7.05 0.01 0.01 0.00 0.03 0.03 6 0.81% 0.013 0.53 2.72 132 5% 866.45 865.25 C.O. 2
132 0.81 2.81 6.80 0.00 0.01 0.06 0.00 0.11 6 4.40% 0.013 1.18 6.00 16 9% 865.25 864.55 C.O. 1 C.O. 2 C.O. 1 0.01 0.01 0.95 10 2.00 C.O. 1 EX 0.00 0.00 0.95 D.S. 5 WYE 0.00 0.00 0.95 28 2.00 2.00 2.00 7.05 0.00 0.00 0.03 0.00 0.03 6 5.00% 0.013 1.25 6.39 22 2% 866.45 865.35 D.S.5 WYE 869.35 2.90 2.40

Storm Sewer Structure Schedule

STR.#	SIZE	DETAIL/NOTES	CASTING	GRATE
701	30'	TYPE I INLET	EJIW 1020	MI GRATE
702	30'	TYPE I INLET	EJIW 1020	MI GRATE
703	30'	TYPE I INLET	EJIW 1020	MI GRATE

103 30" I TYPE I TINLE!

FINALTIRE SCHEALE GEREAL NOTES.

ALL CASTINE AND GRATE MODEL INMOSES REFERENCE EAST JORDAN ROOM MORKS CASTINIS AND GRATE MODEL INMOSES REFERENCE EAST, JORDAN ROOM MORKS CASTINIS AND GRATES INLESS OF IESPISES FOR EAUTHORISES INLE DE REVISIVED FOR USE IF SURVITED FOR REVISION AND MINIMAL OF SEVEN DAYS PRIOR TO SURVITED, OF ERUS FOR USE IF SURVITED FOR REVISION AND CONSTRUCTION DETAILS.

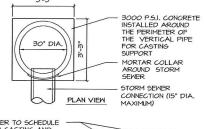
ALL CASTINES TO BY FRE-STAFFED WITH AN APPROPRIATE CLEAN WATER MESSAGE FER CITY OF INDIAMANCIAL STANDARD CONSTRUCTION DETAILS.

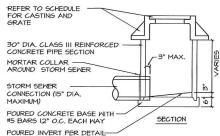
CASTING SHALL BE INSTALLED FLUSH WITH FINISHED GRADE - FINISH GRADE REQUIRED BACKELL INDOT #8 CRUSHED STONE BEDDING PER MANUFACTURER'S SPECIFICATIONS

FOR ROCK OR OTHER NON-COMPRESSIBLE MATERIALS, THE TRENCH SHOULD BE OVER-EXCAVATED A MINIMUM OF 6" 4 REFILLED WITH GRANULAR MATERIALS.

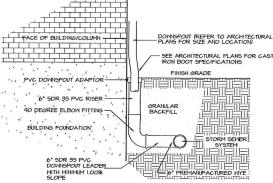
O.D. = OUTSIDE DIAMETER I.D. = INSIDE DIAMETER H= BACKFILL COVER ABOVE TOP OF PIPE h= O.D./8; 4" MIN.

HDPE Pipe Bedding Detail Not To Scale





Type I Inlet Detail Not To Scale



Downspout Connection Detail Not To Scale

Storm Sewer Watershed Computations

		POST-DEVEL	OPED STORM S	EWER BASINS		
WATERSHED	TOTAL	TOTAL	ROOF (sq.ft.)	PAVE (sq.ft.)	LAWN (sq.ft.)	WEIGHTE
	AREA (sq.ft.)	AREA (ac)	0.95	0.95	0.40	RUNOFF C
701	1	0.00	0	0	1	0
702	4133	0.09	0	1563	2570	0
D.S. 1	710	0.02	710	0	0	0
D.S. 2	3527	0.08	3527	0	0	0
D.S. 3	3988	0.09	3988	0	0	0
D.S. 4	2657	0.06	2657	0	0	0.
D.S. 5	165	0.00	165	0	0	0.
C.O. 2	375	0.01	375	0	0	0.
TOTAL	15016	0	10000	1563	2574	

GENERAL NOTES: STORM SEWERS

- ALL SANTARY AND STORM SENER MATERIALS, WORKMANSHIP AND METHODS OF CONSTRUCTION SHALL COMEN'T WITH THE COLUMBIA CITY SECURICATIONS AND DETAILS, LATEST EDITION. APPROVAL OF THESE FLANS DOCS FOR TELLIEVE THE CORMITACTOR OF THE RESPONSIBILITY OF THE INSTALLATION IN ACCORDANCE WITH COLUMBIA CITY SECURICATIONS AND DETAILS.
- 2. THE SEVER PIPE BEDDING SHALL BE PER COLUMBIA CITY SPECIFICATIONS OR PER THE SECRETIFE SECTION SHALL BE FER COLUMNA CITT SPECIFICATIONS OR PETALLS THIS SET, MICHEVER IS MORE STRINGERT, ALL SEPIER HISTALLATION BENEATH PAVED AREAS, ROADWAYS, AND WITHIN ROAD RIGHT-OF-WAYS SHALL RECEIVE FULL DEPTH GRANULAR BACKFILL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TAPPING AND CONNECTION FEES ASSOCIATED WITH THE SEVER CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL PAY FOR A FILL TIME INSPECTOR IF REQUIRED BY THE GOVERNING AUTHORITY.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES, AND THE LOCATION AND INVERT OF THE EXISTING SANTRAY AND STORM SEPRESS, ANY CORPLICT DEPTREET HE EXISTING UTILITIES AND THE PROPOSED CONSTRUCTION SHOULD BE REPORTED TO THE DISINEER PRIOR TO THE COMPRESIDENT OF CONSTRUCTION OPERATIONS.
- 5. THE CONTRACTOR SHALL UPON THE COMPLETION SEVER CONSTRUCTION VERIFY ALL FINAL MANAGER ME ELEVATIONS AND INVEST ELEVATIONS OF THE SANITARY AND STORM SENER SYSTEM. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE COVERNING AUTHORITIES 1/49 DILLY TORANINGS CERTIFIED BY A PROFESSIONAL LAND SURVEYOR IN THE STATE OF INDIANA.
- ALL SEVER TAPS ARE FROM THE MUNICIPAL SEVER MAIN TO A POINT WITHIN FIVE FEET OF THE BUILDING, UNLESS OTHERWISE NOTED.

GENERAL NOTE: ABBREVIATIONS MATCH EXISTING ELEVATIONS TOP OF CURB FLEVATION GUTTER/BOTTOM OF CURB ELEVATION. PROVIDE ALL NECESSARY FITTINGS TO CONNECT TO SERVICE. COORDINATE CONNECTION WITH MECHANICAL CONTRACTOR AND PLUMBING PLANS. "TC" TOP OF MANHOLE CASTING. "D5" DOWN SPOUTS CLEAN OUT

GENERAL NOTE: NOTIFICATION

THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO COLUMBIA CITY HE SUITANDESS STALL FRAVILLE AD HAMS NOTICE TO COLLABIA CITY
HEIGHEERING DEPARTMENT FOR THE INSPECTION OF THE CONNECTION TO THE
EXISTING INLET AND 48 HAMS NOTICE TO THE PROPERTY OWNERS PRIOR TO
ANY WORK ON OFFSITE LOTS.

ANY EXISTING DRAINAGE TILES BLOAMBRED DIRING THE COIRSE OF CONSTRUCTION SHALL BE CONSCIED TO THE PROPOSED STORM SEVER RETRINGKY. CORDINATE HERING OF CONSCIONATION HITH THE OFFICE OF THE BISINERY, ONDER, AND THE COLLINEIA CITY STORMWATER DISINERSING DEPARTMENT PRICK TO CORSTRUCTION.

GENERAL NOTE:

NO EARTH DISTURBING ACTIVITY MAY COMMENCE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.

THE STORM SEVER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY COLUMBIA CITY ON THE FINAL APPROVED CONSTRUCTION PLANS, DEVIATIONS FROM THE APPROVED DESIGN SHALL ONLY BE PERMITTED DIE TO SPECIAL CIRCUMSTAVEDS OR DIFFICULTY DURING CONSTRUCTION AND NULL REGIORE PRIOR FILED APPROVAL FROM A DESIGNATED REPRESENTATIVE OF COLUMBIA CITY IN ADDITION TO SUPPLEMENTAL APPROVAL BY THE DESIGN ENGINEER, AN EXPLANATION OF SUPPLIPABITIAL APPROVAL BY THE DESIGN BISINEER, AIL EAPLANATION OF AMY SICH DEVANTION SHALL BE INCLIDED AS A REQUIREDHER ON A SHBILTRECCORD DRAWNES SERVITED FOR RELEASE OF PERFORMACE GUARANTEES, APPROVED DESIGN SLOPES IDENTIFIED AS GENERATING VELOCITIES OF 25 FFS OR LESS OR 10 FFS OR GENETIC AT FILL FLOW CAPACITY) SHALL REQUIRE AS BUILT CERTIFICATION AT THE THE OF CONSTRUCTION PRIOR TO BEACHTLIBN THE TIPE. THE CONTRACTOR IS INSTRUCTED TO AS-BUILT EACH SECTION OF STORM PIPE AS IT IS BEING INSTALLED TO BUSINE COMPLIANCE WITH DESIGN PLANS AND AS APPROVED BY COLUMBIA CITY.

GRADING & DRAINAGE NOTES:

- ADING & DRAINAGE NOTES.

 ALL GRADES AT BOUNDAY SHALL MEET EXISTING GRADES.
 ALL SHALE SHALL HAVE A MINIMUM SLOPE OF LOOK.
 CATTRACTOR SHALL HINDING DAMAGE TO EXISTING TREES.
 SLOPE SHALL NOT BE GREATER THAN 31 HINES OTHERWISE SPECIFIED.
 REHOVE AND BACKFILL ALL AREAS WHERE ANY FIELD THE CROSSES
 PROPOSED BULDIONE PADS. ALL FIELD TILLES SPECOTIFICATION SHALL
 NOTIFY IN NATIONS HE OWNER AND THE BUSINEEK IN ANY
 CROMSTANCES HERE THIS CANNOT BE DONE.
 ALL FILL AREAS INDER FLOOK SLASS, ADJACENT TO FORDOTIONS
 AND OVER FROMANIONS SHOULD COMPACTED TO AT LEAST 93% OF
 THE STANDARD PROCITOR DEBISTY (ASTIN D-640), FILL SPECKTING
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 THE LIFER TO SHOULD BE CARRIED AND CAMPACTED TO GOVE OFFICE
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 CARRIACTORS SHALL CARRIED AND THE THE
- TO THE START OF CONSTRUCTION, IF AN EXCESS OR SHORTAGE OF EARTH IS BLOCKIMITED, THE CONTRACTOR SHALL CONFERN HIM THE OWNER, AND EMERGER THE REQUIRED ENTS FOR STOCKPILING, REMOVAL OR INFORTATION OF EARTH.

 ANY PART OF STORM SEPIER TREILLES FOR STANDARD, STANDARDS, STANDARD



sional Engineers & Surveyors
it. Joe Center Road, Suite #51
Fort Wayne, Indiana 46825
260.484.9900 phone
260.484.9980 fax
www.4site.biz ForeSight

St.

Profe 1910

Better







Performed for:



Indiana

City

Columbia

6 Management



Drawing Revisions

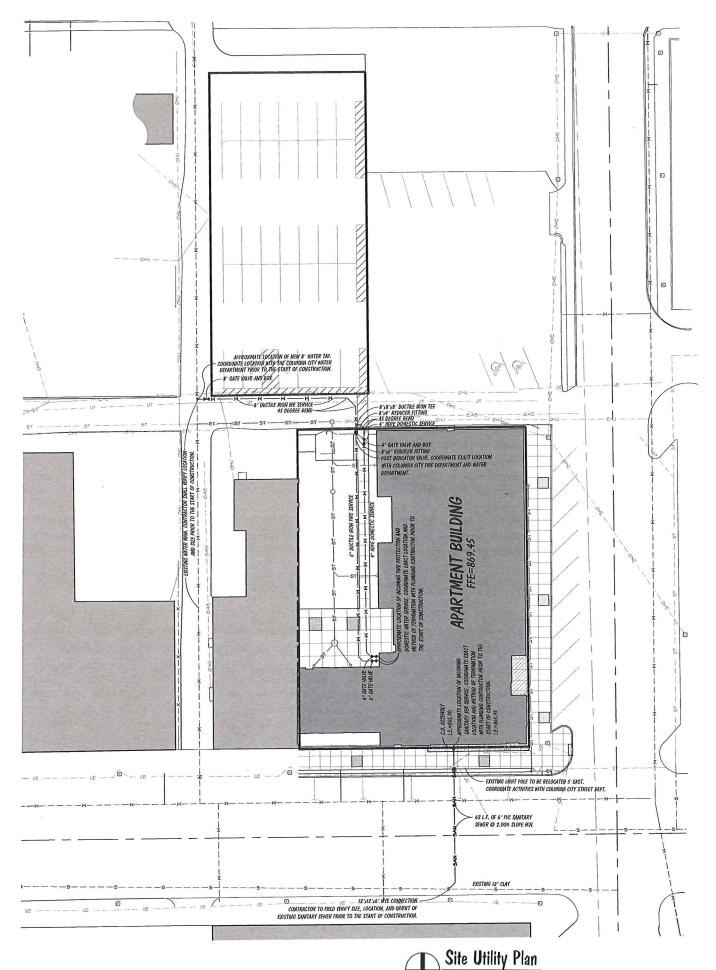
Stormwater

Commission Number 182297

Date

February 8th, 2019

Title



GENERAL NOTE: UTILITY CONFLICTS

CHERCAL ROTE: UILLIT CONFLICTS

RINSTANCES OF POTENTIAL, CANHICT BETWEEN PRESSURVIZED UTLITY

SERVICES (GAS AND WATER DISTRIBUTION SYSTEMS) AND GRAVITY UTLITY

SERVICES (SANITARY AND STORM SEVER SYSTEMS) REMIRED SEPARATION

DISTRACES HIST BE MANITARIES (REFER TO GENERAL NOTES, MATER SYSTEMS

NOTE NO. 3). IN CASES OF CONFLICT IN ELEVATION, THE PRESSURIZED

UILLITY SERVICES WILL YIELD IN ELEVATION OF THE GRAVITY SYSTEM, AND

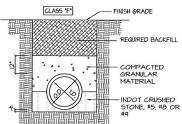
THE PRESSURIZED SYSTEM WILL BE RAVED OR LOWERED TO ALLEVANTE THE

CONFLICT. AT NO TIME SHALL THE MIMMOM DEPTH OF COVER REGIONED

FOR THE PRESSURIZED UTILITIES BE REDUCED TO AVOID CONFLICT.

GENERAL NOTE:

UTILITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE UNLITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER, UNLITY THE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH PROPOSED DEVELOPMENT SHALL BE THE RESPONSIBILITY OF THE DEVELOPERS TO RESOLVE WITH THE UNLITY, EXISTING POLE LINES REQUIRED TO BE RELOCATED SHALL BE RELOCATED TO WITHIN ONE FOOT OF PROPOSED RIGHT-OF-WAY LINE.



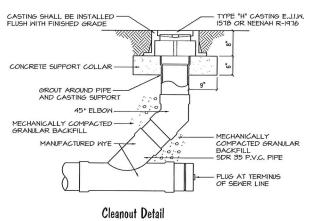
FOR ROCK OR OTHER NON-COMPRESSIBLE
MATERIALS, THE TRENCH SHOULD BE OVEREXCAVATED A MINIMIM OF 6" & REFILLED WITH
GRANILAR MATERIALS,
FLEXIBLE CONDUITS ARE CONSIDERED THE
FOLLOWING PIPES, PVC SOLID WALL AND
CORRUGATED METAL PIPE.

LEGEND O.D. = OUTSIDE DIAMETER I.D. = INSIDE DIAMETER H= BACKFILL COVER ABOVE TOP OF PIPE h= O.D./8: 4" MIN.

SIEVE SIZES	COURSE AGGREGATES SIZES (PERCENTS PASSING SIEVE)				
SILVE SIZES	#5	#8	#4		
1 1/2"	100	100	100		
I"	85-48	100	100		
3/4"	60-85	75-95	100		
1/2"	30-60	40-70	60-85		
3/8"	15-45	20-50	30-60		
NO. 4	0-15	O-I5	0-15		
NO. 8	0-10	0-10	0-10		

PROVIDED THAT NO MORE THAN 20% OF STONE CHIPS PASS THE

PVC Pipe Bedding Detail Not To Scale



Not To Scale



GENERAL NOTES: WATER SYSTEMS

- I. ALL WATER LINE MATERIALS, WORKMANGHIP AND METHODS OF CONSTRUCTION SHALL COMPLY WITH COLUMBIA CITY. SPECIFICATIONS AND DETAILS, LATESTE EDITION. APPROVAL OF THESE PLANS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF THE INSTALLATION IN ACCORDANCE WITH COLUMBIA CITY. SPECIFICATIONS AND DETAILS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TAPPING AND CONSECTION FEED ASSOCIATED WITH THE WATER LINE CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL PART FOR A FILL THE INSPECTION IF REGUIRED BY THE GOVERNING AUTHORITY. THE NATER LINE INSTALLATION WILL BE INSPECTION, AND MIST BE APPROVED PRIOR TO BACKFILLING OF THE TRENCH.
- ALL WATER LINES SHALL MAINTAIN A MINIMUM COVER DISTANCE OF FIVE FEET FROM FINISH GRADE.
- 4. ALL WATER LINES SHALL BE DISINFECTED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF COLUMBIA CITY, OR THE INDIANA STATE DEPARTMENT OF HEALTH, WHICHEVER IS MORE STRINGENT. SANITARY AND STORM SEWER SEPARATION REQUIREMENTS WITH RESPECT TO WATER MAINS ARE AS FOLLOWS:
- A MINIMUM HORIZONTAL SEPARATION OF TEN FEET SHALL BE MAINTAINED BETWEEN ALL SEWER SYSTEMS AND WATER MAIN LOCATIONS. A MINMM VERTICAL SEPARATION OF 18 INCHES SHALL BE MAINTAINED WEEN SEVERS CROSS UNDER WATER LINES (NEASURED FROM THE BOTTOM OF THE WATER LINE TO THE TOP OF THE SANITARY SEVER).
- OF HE WALEK LIKE TO THE LOV OF HE SANIANT SCHEAU.

 FETHER THE KHENZIGHTA OR VERTICAL SEPARATION CANNOT BE MET, THE SEVER SHALL BE CONSTRUCTED OF WATERVOKKS GRADE MECHANICAL JOINT DUCTHE IRON PIPE OR SOR 26 MOV. PRESIDE PIPE WITH COMPRESSION FITTINGS AND SHALL BE RESEMBLE THATED TO ASSINE WATER THATMESPE PRIOR TO BACKFILLIUS. THE SEVERE SHALL BE CONSTRUCTED SO THAT THE NATERVOKKS GRADE PIPE EXTENDS A DISTANCE OF THE FEET OF BEACH SIDE OF THE WATER MAIN AND SHALL BE CONSTRUCTED WITH ONE FILL LENGTH OF PIPE CENTERED ON THE WATER MAIN SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE MATER MANS OF THAT THE MATER MAN SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE MATER MANS.
- ALL WORK SHALL CONFORM TO STATE AND LOCAL PLIMBING AND BACKFLOW PREVENTION CODES AND SPECIFICATIONS OF CITIZENS ENERGY GROUP.
- ALL MATER LINES 3" AND LARGER MUST BE DISINECTED AND SAMPLES FROM THREE CONSECUTIVE DAYS MUST BE TAKEN TO AN APPROVED ITESTINS LAB, AND THE LAB ANALYSIS REPOSTS MUST BE SHARTED TO INDIANA AMERICAN MATER SHOWNED THAT THE SAMPLES HAVE PASSED THE TISTS FOR THEE CONSECUTIVE DAYS.
- VACIUM BREAKERS MUST BE INSTALLED ON ALL EXISTING OR PROPOSED HOSE BIBS, MOP/SERVICE SINCS, AND WALLYARD HYDRANTS.
- PER STATE CODE, BACKFLOW DEVICES ARE TO BE TESTED UPON INSTALLATION AND THEN PERIODICALLY THEREAFTER. SUBMIT COPIES OF TESTS TO COLUMBIA CITY ENGINEERING.
- ALL WATER LINE SHALL HAVE A TRACING WIRE INSTALLED IN ACCORDANCE WITH COLUMBIA CITY SPECIFICATIONS AND DETAILS, LATEST EDITION.

GENERAL NOTES: SANITARY AND STORM SEWERS

- ALL SANITARY AND STORM SEVER MATERIALS, MORKMAISHP AND METHODS OF CONSTRUCTION SHALL COMPLY IN HIL COLUMBIA OITY SPECIFICATIONS AND DETAILS, LAFETE EDITION, APPROVAL OF THESE PLANS DOES NOT RELEVE THE CONTRACTOR OF THE RESPONSIBILITY OF THE INSTALLATION IN ACCORDANCE WITH COLUMBIA OITY SPECIFICATIONS AND DETAILS.
- 2. THE SEVER PIPE BEDDING SHALL BE PER COLIMBIA CITY SPECIFICATIONS OR PER DETAILS THIS SHEET, INSCREAMEN IN DORE STRINGENT. ALL SEVER INSTALLATION BENEATH PAYED AREAS, ROADWAYS, AND INTHIN ROAD RIGHT-G-YAMYS SHALL RECEIVE FILL DEPTH GRANLAR BACKFILL.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TAPPING AND CONNECTION FEES ASSOCIATED WITH THE SEVER CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL PAY FOR A FILL TIME INSPECTOR IF REQUIRED BY THE GOVERNING AUTHORITY.
- 4. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTLITIES, AND THE LOCATION AND INVERT OF THE PRISTING SANTARY AND STORM SPEECH, ANY COPINITO TED THE PEN THE EMSTING UTLITIES AND THE PROPOSED CONSTRUCTION SHOULD BE REPORTED TO THE EMSINEER PRIOR TO THE COMPREMENTOR OF CONSTRUCTION OPERATIONS.
- 5. THE CONTRACTOR SHALL, IPON THE COMPLETION SEMER CONSTRUCTION, VERIFY ALL FINAL MANAGER RIM ELEVATIONS AND INVERTILE EVALUATIONS OF THE SANITARY AND STORM SEMES STISTEN. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE THE AFROMINIAE GOVERNIA SHORTIES "AS BUILT DRAWNINGS CERTIFIED BY A REGISTERED LAND SIRVEYOR IN THE STATE OF INDIVIAN.
- ALL SEVER TAPS ARE FROM THE MUNICIPAL SEWER MAIN TO A POINT WITHIN THREE FEET OF THE BUILDING, UNLESS OTHERWISE NOTED.
- SANTARY SEVER LATERAL CONTRACTOR TO CONNECT TO THE TRACER WRE AT THE SEVER MAIN AND EXTEND THE WIRE ALONG THE TOP OF PIPE TO THE CLEAVOUT ADJACENT TO THE STRUCTURE.

TRACING WIRE: MODIFICATION TO DESIGN MANUAL SPECIFICATIONS

- CURRENT TRACING MIRE REQUIREMENTS
 DESIGN MANUAL. (FER SECTIONS 3.1.3 & 6.17)
 TRACING MIRE REQUIRED ON ALL NON-METAL PIPES.
 INSULATED RIO SOLID COPPER TRACING WIRE REQUIRED.
 THOUGHT OF METAL WIRE TO THE WATER MAIN WITH PLASTIC "ZIP"
 STRAFPING ON METAL WIRE
 THE HIRE SHOULD BE BROUGHT TO GROUND LEVEL AT EACH VALVE
 AND HYDRANT.
- ADDITIONAL NOTES REQUIRED BY DEVELOPMENT SERVICES ON PLAN
 APPROVAL:

 (FER PVC DOCUMENT RECEIVED FROM PLANNING & DECISION

- APPENVIAL

 (FEER PV.) DOUMENT RECIPIED FROM PLANNING & DESIGN

 1 NISULATED FIO SOLID COFFEE WIRE USED IN AREAS NOT WOMEN.

 1 NISULATED FIO SOLID COFFEE WIRE USED IN AREAS NOT WOMEN.

 NISULATED FIO SOLID COFFEE WIRE USED IN AREAS NOT WOMEN.

 PAVENENT (FARK AREAS GRASS EFC.)

 1 NEWLATED FIO SOLID COFFEE WIRE USED IN AREAS NOT WOMEN.

 ATTACHED TO HE PIPE AT RECIPIED OF WIRE WATER MAIN AND ATTACHED TO HE POWEN.

 1 THE NIRE SHALL BE CONNECTED TO THE LOOP BELOW THE STEAMER CAP (FYELET WORS PLIMPER NOZZLE PHERE CHAIN HOOKED INTO AT HYDRANTS AND BE ATTACHED TO THE BARREL AT RECIPIED.

 1 THE NIRE SHALL BE DOWNED TO 10 STEAMER.

- ** TRACING WIRE REQUIRED THE MOST OF VALVE BOX RISERS,

 TRACING WIRE REQUIRED THE FIRE MAIN 12" AND LARGER, NOT

 26/004, 20/004, 1 20/19/004

 ** TRACING WIRE REQUIRED ON ALL MATER MAIN 12" AND LARGER, NOT

 ** TRACING WIRE REQUIRED OF PIET.

 ** ONLY INSULATED 19/0 SOLD OFFER TRACING WIRE WILL BE ALLOWED.

 ** THE WIRE MOST BE ATTACHED TO THE WATER MAIN NITH PLASTIC ZIP*

 ** TRAPPING OR METAL MIRE DEPARTLY OVER THE WATER MAIN AND

 ** ATTACHED TO THE PIETE AT REQULAS INTERVALS NOT TO EXCEED TEN

 ** (O) FIET.**

 ** FOR VALVES, THE WIRE SHALL BE DRAWN THRU THE INSIDE OF VALVE

 ** FOR VALVES, THE WIRE SHALL BE DRAWN THRU THE INSIDE OF VALVE

 ** BOX. IN SOIL, THE WIRE SHALL BE EXTENDED THROUGH THE HOLES IN

 ** FOR HYDRANTS, THE WIRE SHALL BE EXTENDED THROUGH THE HOLES IN

 ** FOR HYDRANTS, THE WIRE SHALL BE EXTENDED THROUGH THE HOLES IN

 ** FOR HYDRANTS, THE WIRE SHALL BE EXCEED TWO (2) FEET. THE NINES SHALL

 ** BEAUGHT UP NEXT TO THE PIETE THROWN IN A W. SCHEDULE 40

 THICK WALL FYC FIFE 36" IN LENSTH AND SHALL BE CONNECTED TO

 THE LOOD PELOW THE STRAMER CAP (EVILLE THOSE PROPER NOZZIE

 ** WERE CHAIN HOOKED INTO). THE FIFE HYDRANT IN A W. SCHEDULE 40

 THE CHAINS TECHNIQUE SHOULD BE USED WERE SHOULD BY THE TO THE SHALL BE CONNECTED TO

 THE LOOD PELOW THE STRAMER CAP (EVILLE THOSE PROPER NOZZIE

 ** WERE CHAIN HOOKED INTO). THE FIFE HYDRE SHOULD BY THE TO THE SHOULD BY THE TO THE SHALL BY CONNECTED TO

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 ** TO THE STROWN THE SHOULD BE SHOULD BY THE TOTAL THE FIRE TO DOWN THE THIST WIRE 6-0

 ** THE FOLLOWING TECHNIQUE SHOULD BY BUT WHE THE STROWN THE SHOULD BY ANTER

 ** MAINTENANCE WILL BE REQUIRED FROM TO A ACCEPTANCE OF MATER

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MAIN.

MARKING POST REGUREMENTS (FROM EMAIL CORRESPONDENCE ON 2/6/04, 2/10/04, 1 2/45/04).

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12/6/04, 2/10/04, 1 2/45/04).

12/6/04, 1 2/45/04, 1 2/45/04, 1 2/45/04, 1 2/45/04, 2 2/45

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Better

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Indiana

Cif.

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Columbia Street, Buren - III II Van West

for:

Plan

Utility

Site

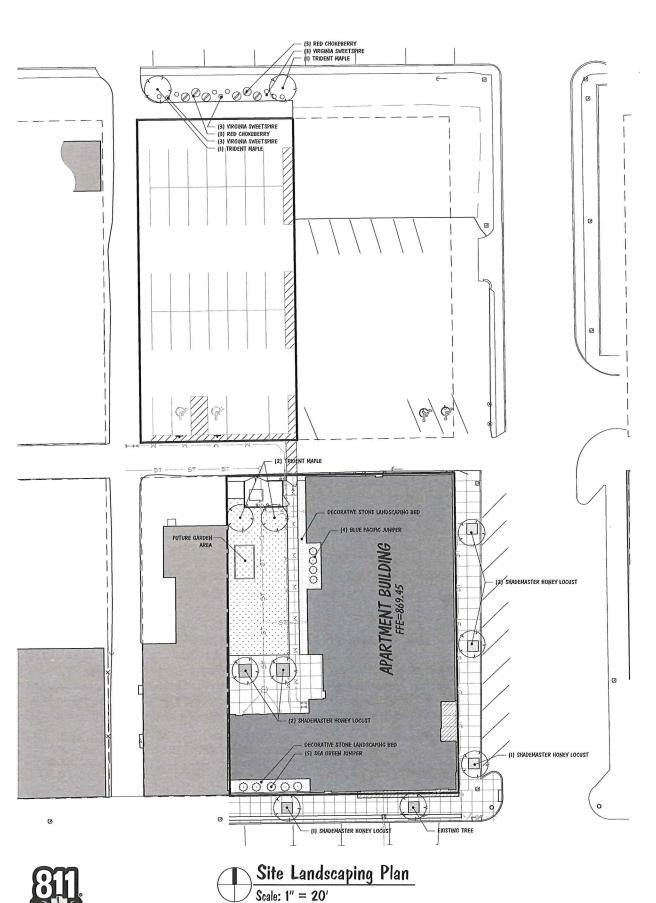
Drawing Revisions

Commission Number 182297

Date

February 8th, 2019

Title Site Utility Plan



Know what's below.

Call before you dig.

GENERAL NOTES/SPECIFICATIONS: SITE CLEARING AND EARTHWORK

- ALL SITE CLEARING AND EARTHWORK OPERATIONS SHALL BE PERFORMED IN A MANNER TO MINIMIZE INTERFERENCE WITH THE ADJOINING ROADWAYS AND THE GUNER'S FACILITIES, COORDINATE OPERATIONS WITH THE GUNER A MINIMUM OF 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- REMOVE EXISTING TREES, SHRIBS, GRASS AND OTHER VEGETATION, INCLUDING ALL ROOTS, STUMPS AND BRANCHES, TO A POINT IS' BELOW FINISHED GRADE AS REQUIRED FOR CONSTRUCTION.
- STRIP TOPSOIL TO WHATEVER DEPTHS ARE ENCONTERED IN A MANNER TO PREVENT INTERMINAL INS WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS, STRIP SURFACE SOIL OF UNSUITABLE TOPSOIL, INCLUDING TRASH, DERRIS WEEDS, ROOTS AND OTHER WASTE MATERIALS. STOCKPILE TOPSOIL ON SITE IN LOCATION AS DIRECTED BY THE OWNER FOR REUSE ON-SITE.
- 4 EXISTING VEGETATION INDICATED TO BE REMOVED AND RELOCATED SHALL BE PROTECTED DURING EARTHLIONS OPERATIONS. ALL VEGETATION SHALL BE RELOCATED AS DIRECTED BY THE OWNER.
- 5 DISPOSE OF SURPLUS SOIL, INSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS, AND IMASTE MATERIALS, INCLUDING TRASH AND TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S
- 6 ONLY SATISFACTORY SOIL MATERIALS ACCEPTABLE TO, AND APPROVED BY THE OWNER, ARCHITECT, AND GEOTECHNICAL ENGINEER SHALL BE USED AS FILL MATERIALS. TYPICALLY THE FOLLOWING LASSIFICATIONS OF SOIL TYPES MAY BE USED FOR FILL BENEATH STRUCTURES AND PARKING ARES. ASTM D 2481 SOIL CLASSIFICATIONS OF GUI, GP, GM, SU, SP, AND SH OR A COMBINATION OF THESE SOIL GROUPS.
- THE FRELIMINARY GEOTECHNICAL ANALYSIS OF THE SITE HAS SUGGESTED THE INSTALLATION OF A SEPARATION FABRIC TO REINFORCE THE PAVEMENT STRUCTURE. THE SEPARATION FABRIC SHALL BE A WOVEN GEOTEXTILE WITH THE FOLLOWING ININIMAT PROPERTIES ACCORDING TO ASSIM D 41591 GRAB TENSILE STRENGTH: 200 LBF ASTM D 4632

TEAR STRENGTH 15 LBF ASTM D4533 PUNCTURE RESISTANCE: 90 LBF ASTM D 4833 WATER FLOW RATE:

4 GPM PER SQ. FT. ASTM D 4491 APPARENT OPENING SIZE: No. 30 ASTM D 4151

- 8 PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 6 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT
- 9 COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 15511;

UNDER LAUN OR UNPAYED AREAS, SCARIFY AND RECOMPACT THE TOP 6 NICHES OF THE EXISTING SUBGRADE AND EACH LAYER OF FILL MATERIAL AT 30 PERCENT.

ALL DAMAGED AND RECONDITIONED LAUN AREAS SHALL BE PREPARED AND PLANTED WITH THE FOLLOWING SUN AND PARTIAL SHADE LAUN SEED MIXTURE:

50% KENTUCKY BLUEGRASS CHEWINGS RED FESCUE PERENNIAL RYE GRASS

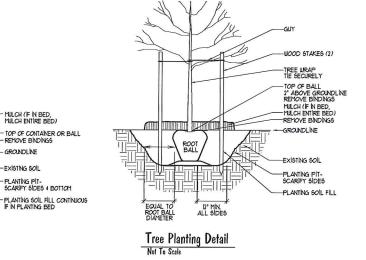
EQUAL TO ROOT BALL DIAMETER

GENERAL LANDSCAPE NOTES

- L ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE
- 2. ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THE LANDSCAPE WORK SHALL BE SECURED BY CONTRACTOR PRIOR TO BEGINNING ANY WORK.
- 3. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ROADS, WALKS, AND ADJACENT PROPERTIES CLEAR OF ALL LANDSCAPE CONSTRUCTION EQUIPMENT, DIRT, AND OTHER DEBRIS.
- 4. THE LANDSCAPE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT.
- 5. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL LANDSCAPING RELATED WORK WITH OTHER CONTRACTORS AND TRADES.
- 6. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS ARE FOUND.
- 1. THE LANDSCAPE CONTRACTOR IS NOT RESPONSIBLE FOR ROUSH GRADING. THE LANDSCAPE CONTRACTOR IS REPORTED TO THE ROUSH GRADING THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FINE GRADING IN ALL LAWN AREAS, THE SITE OR GRADING CONTRACTOR SHALL DEVELOP THE SITE GRADES TO WITHIN I INCH OF FINE GRADE. THIS SHALL INCLUDE TOPSOIL, IF AVAILABLE.
- 8. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR B. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING APPROVED FLAITING SOIL, MIX. TILL THE EXISTING SUBGRADE TO MINIMM DEPTH OF 8' FRIOR TO NOTALLING THE PLAITING SOIL MIX THE FOLLOWING AREAS SHALL RECEIVE APPROVED PLAITING SOIL MIX PER THE PLAITING DETAILS:
- 1) Shrub Planting Pits 2) Tree Planting Pits
- 9. ANY SERIES OF TREES OR SHRUBS TO BE PLACED IN A PARTICULAR ARRANGEMENT MAY BE FIELD CHECKED AND

APPROVED BY THE LANDSCAPE ARCHITECT FOR ACCURACY OF SPACING PRIOR TO PLANTING ANY PLANTS NOT ARRANGED PER THE LANDSCAPE PLANS WILL BE RELOCATED AT THE EXPENSE OF THE LANDSCAPE CONTRACTOR

- 10. CONTRACTOR TO LOOSEN SUBSOIL IN ALL PLANTING AREAS PER SPECIFICATIONS.
- IL APPLY HERBICIDE TO PLANT BEDS PRIOR TO PLANTING FOR WEED CONTROL FOLLOW LABEL DIRECTIONS, DO NOT APPLY TO ANY PLANTING BEDS THAT MAY RESULT IN DAMAGE TO PLANT MATERIALS,
- D. PLANTING BEDS TO HAVE A MINIMUM OF 3" PROCESSED SHREDDED HARDUOOD MULCH, UNLESS OTHERWISE NOTED. ALL SHRUBS TO BE INCLUDED IN A MULCHED BED. AS INDICATED ON PLANS. TREES TO HAVE A 4' DIAMETER CIRCLE OF 3' PROCESSED SHREDDED HARDWOOD MULCH
- I3. DIMENSION FOR HEIGHT AND SPREAD OF PLANT MATERIAL SPECIFIED ON THE PLANT LIST ARE GENERAL GUIDES FOR THE MINIMAY DESIRED SIZE OF EACH PLANT, EACH PLANT SHALL HAVE A UNIFORM AND CONSISTENT SHAPE AS IT PERTAINS TO THE SPECIFICATIONS AND PARTICULAR SPECIES, ANY PLANT MATERIAL WHICH FAILS TO CONFORM TO THE SPECIFICATIONS IS SUBJECT TO REJECTION BY THE LANDSCAPE ARCHITECT.
- IA. THE QUANTITIES INDICATED ON THE PLANT LIST ARE PROVIDED FOR THE BENEFIT OF THE LANDSCAFE CONTRACTOR BUT SHOULD NOT BE ASSUMED TO ALMAYS BE CORRECT. IN THE EVENT OF A DISCREPANCY, THE PLANTIS PLANS MILL TAKE PRECEDENCE OVER THE PLANT LIST, THE LANDSCAFE. CONTRACTOR SHALL BE RESPONSIBLE FOR QUANTITIES, CALCULATIONS AND THE LIABILITY PERTAINING TO THOSE QUANTITIES AND ANY RELATED CONTRACT DOCUMENTS AND/OR
- IS. ALL PLANTING BEDS ADJACENT TO THE BUILDING SHALL HAVE A MINIMM SLOPE OF 2% AWAY FROM THE BUILDING TO INSURE POSITIVE DRAINAGE.
- 16. REFER TO CIVIL PLANS FOR SITE GRADING AND UTILITY



PLANT LEGEND

Shrub Planting Detail

QUANTITY	COMMON NAME	SCIENTIFIC NAME	ROOT	SIZE
	DECIDUOUS TREES			
4	TRIDENT MAPLE	ACER BUERGERANIM	BIB	2'
6	SHADEMASTER HONEY LOCUS	GLEDÍTSIA TRIACANTHOS VAR INERMIS	BIB	2'
	SHRUBS			
9	VIRGINIA SWEETSPIRE	ITEA VIRGINICA	CONT.	18'-24'
6	RED CHOKEBERRY	ARONIA ARBUTIFOLIA	CONT.	36'
4	BLUE PACIFIC JUNIPER	JUNIPERUS CONFERTA 'BLUE PACIFIC'	CONT.	18'
5	SEA GREEN JUNIPER	JUNIPERUS CHINESSIS KALLAY'S COMPACT'	CONT.	24'

GROUNDLINE

-EXISTING SOIL



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al Engineers & Surveyors
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www.4site.biz ForeSight

Profe



Better



Performed for:

(5) U Plan **6**

City

nbia

Cola Buren 1 Ш Van West 306

Drawing Revisions

Landscaping

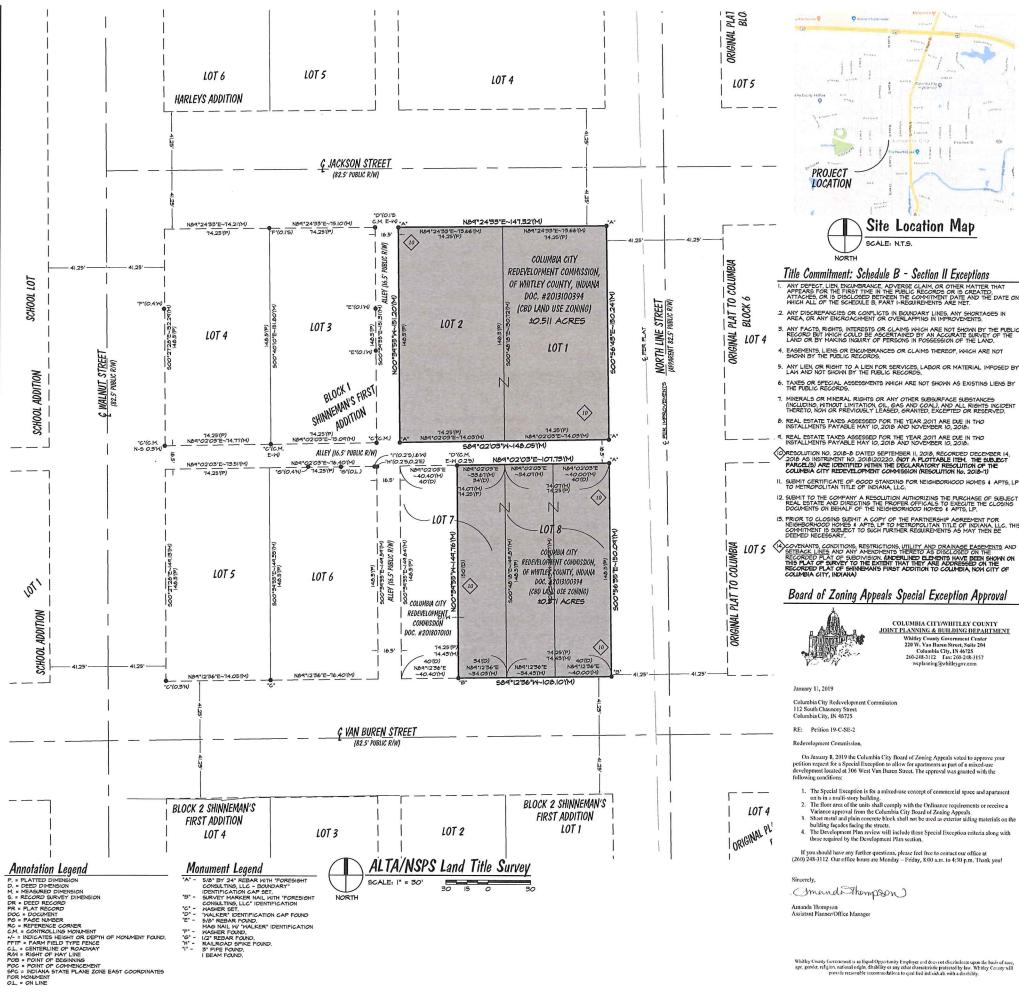
Site

Commission Number 182297

Date

February 8th, 2019 Title

Site Landscape Plan Sheet Number







Title Commitment: Schedule B - Section II Exceptions

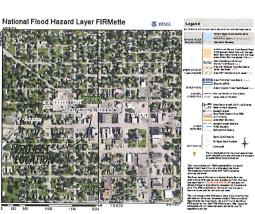
- ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETNEEN THE COMMINISTRY DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I-REQUIREMENTS ARE MET.

- ANY LIEN, OR RIGHT TO A LIEN FOR SERVICES, LABOR OR MATERIAL IMPOSED BY LAW AND NOT SHOWN BY THE PUBLIC RECORDS.
- 7. MINERALS OR MINERAL RIGHTS OR ANY OTHER SUBSURFACE SUBSTANCE

- I. SUBMIT CERTIFICATE OF GOOD STANDING FOR NEIGHBORHOOD HOMES & APTS, LP TO METROPOLITAN TITLE OF INDIANA, LLC.
- 13. PRIOR TO CLOSING SUBMIT A COPY OF THE PARTNERSHIP AGREEMENT FOR NEIGHBORNOOD NOMES & APTS, LP TO METROPOLITAN TITLE OF INDIANA, LLC, THIS COMMITMENT IS SUBJECT TO SUCH FURTHER REQUIREMENTS AS MAY THEN BE DEEMED NECESSARY.

JOINT PLANNING & BUILDING DEPARTMENT Whitley County Government Center 220 W. Van Buren Street, Suite 204

petition request for a Special Exception to allow for apartments as part of a mixed-use development located at 306 West Van Buren Street. The approval was granted with the



General Notes: ALTA/NSPS Land Title Survey

- THE LOCATION AND DIMENSIONS OF ALL BUILDING STRUCTURES ON THE FACE OF THIS SURVEY (IF APPLICABLE) ARE NOT INTENDED FOR STRUCTURAL DESIGN.
- 2. UTILITIES DEPICTED ON THE WITHIN PLAT OF SURVEY WERE LOCATED FROM
 ABOVE-GROUND VISIBLE EVIDENCE AND APPURIENANCES. NO PRIVATE UTILITY LOCATION
 SERVICES WERE REQUESTED FOR THIS SURVEY, NO RECORD UTILITY DOCUMENTS WERE
 PROVIDED FOR USE BY FORESIGHT CONSULTING, LLC FOR THE COMPLETION OF THIS
 SURVEY.
- 4. THE PROFESSIONAL SERVICES PROVIDED DO NOT INCLUDE AND SHOULD NOT BE CONSTRUED TO BE AN OPINION OF THE TITLE.
- METROPOLITAN TITLE OF INDIANA, LLC/FIRST AMERICAN TITLE INSURANCE COMPANY TITL COMMITMENT FILE NO. ISIIROA MITH AN EFFECTIVE DATE OF DECEMBER 12TH, 2018 AT 8:00 AM HAS BEEN UTILIZED AND RELIED UPON FOR THE PURPOSE OF COMPLETING THIS ALTAMSPS LAND TITLE SURVEY.
- 6. THE LAND DESCRIBED IN THE SURVEY IS THE SAME AS DESCRIBED IN THE TITLE INSURANCE COMMITMENT.
- 6. AT THE TIME OF FIELD SURVEYING OFERATIONS NO VISIBLE EVIDENCE OF SIGNIFICANT EARTH MOVING OR DISTURBING WORK WAS OBSERVED WITHIN THE BOUNDARIES OF THE SUBJECT PROFERTY (ALTANSES TABLE A ITEM No. 16)
- q. NO PROPOSED CHANGES TO STREET RIGHT OF WAY LINES WERE FOUND OR PROVIDED THIS SURVEY (ALTAMSPS TABLE A ITEM No. 17)
- IO, NO YIGIBLE EVIDENCE OF A WETLAND DELINEATION WAS OBSERVED DURING THE COURSE OF LAND SURVEYING FIELD OFERATIONS, FORESIGHT CONSULTING, LLC WAS NOT PROVIDED MITH A NETLAND DELINEATION REPORT OR TOTHER DECUMENTATION THAT WOULD INDICATE THAT A NETLAND MAS OR HAS BEEN DELINEATED ON THE SUBJECT PARCEL(ALTANSPS TABLE A ITEM NO. 18).
- A ZONING REPORT MAS NOT PROVIDED TO ADDRESS LAND USE ZONING AND SETBACKS FOR THE PREPARATION OF THIS SURVEY. THE EXISTING SITE IS ZONED CED (CENTRAL BUSINESS) DISTRICT) ACCORDING TO THE HYILLEY COUNTY PLANNING DEPARTMENT. THE PROJECT RECIEVED A SPECIAL EXCEPTION APPROVAL FROM THE HYILLEY CONTY/COLUMBIA CITY BOARD OF ZONING APPRAILS FOR THE PROPOSED PROJECT USE REFER TO LAYD USE ZONING HOPMATION SHEET SAY, 2 AND SPECIAL EXCEPTION APPROVAL LETTER THIS SHEET FOR ADDITIONAL INFORMATION.
- 2, THE SITE LIES WITHIN A "ZONE X" DEFINED AS "AREAS OF MINIMAL FLOODING" BASED UPON THE FLOOD INSURANCE RATE MAP (FIRM) ISIB320226 MITH AN EFFECTIVE DATI OF MAY 24TH, 2015 (REFER TO FIRN-TEI IMAGE THIS SHEET)
- 13. THE BOUNDARIES OF THE SUBJECT PARCEL, MITH THE EXCEPTION OF THE WESTERN BOUNDARY OF THE SOUTHERN PARCEL, ARE CONTIGUOUS WITH THE RIGHT OF MAY LINES OF STREETS AND ALLEYS WITHIN THE MINICIPAL CITY OF COLUMBIA CITY, INDIANA.

Real Estate Description per Title Commitment

THE EAST FORTY (40) FEET OF LOT NO. BIGHT (6) IN SHINNEMAN'S FIRST ADDITION TO COLUMBIA, NOW CALLED CITY OF COLUMBIA CITY, INDIANA, BLOCK NO. ONE (1) OF SAID ADDITION AND DESCRIBED AS FOLLOWS, TO-NIT:

COMPRENIES AT THE SOUTHEAST CORNER OF SAID ABOVE DESCRIBED LOT EIGHT (b) IN BLOCK NO. ONE IN SHINDENAMS FROM TAD THE OWN OF COLUMBIA KOM CALLED CITY OF MICHORY OF COLUMBIA KOM CALLED CITY OF THE CORNER OF THE CORNER OF THE OWN OF THE CORNER OF THE CORNER

ALSO

THIRTY-FOUR (34) FEET OFF OF THE EAST SIDE OF LOT NUMBER SEVEN (1) IN BLOCK NUMBER ONE (1) IN SHINNEMAN'S FIRST ADDITION TO THE TOWN OF COLUMBIA, WOM CALLED CITY OF COLUMBIA CITY, AND BEINS MORE PARTICULARLY DESCRIBED AS, BEGINNEN AT THE SOUTHLAST CORNER OF LOT NUMBER SEVEN (1) AND RINNING THEINCE NEST ON THE SOUTH LINE THEREOF AND ALONG VAN BURREN STREET IN SAID CITY, THIRTY-FOUR (34) FEET, THENCE NORTH PARALLEL NITH THE EAST LINE THEREOF ONE HANDRED FIFTY (150) FEET TO THE NORTH LINE OF SAID LOT, THENCE ASST ALONG THE NORTH LINE THEREOF, THIRTY-FOUR (34) FEET TO ME NORTHEAST CORNER OF SAID LOT NAMBER SEVEN (1); THENCE SOUTH ALONG THE EAST LINE OF SAID LOT THE FLACE OF TEGINNING.

ALSO
COMMENCING ON THE SOUTH LINE OF, AND AT A POINT FORTY (40) FEET MEST OF THE
SOUTHMEST CORNER OF LOT INMERE FLIGHT (16), IN BLOCK IMMERE ONE (1) IN SHINDMANS FIRST
ADDITION TO COLUMPIA, NOW CALLED COLUMPIA CITY, RINNING FROM THENCE NORTH PARALLEI
WITH THE EAST LINE OF SAID LOT TO THE NORTH LINE THEREOF, THENCE MEST ON THE NORTH
LINE TO THE NORTHWEST CORNER OF SAID LOT, THENCE SOUTH ON THE MEST LINE OF SAID LOT
TO THE SOUTHWEST CORNER OF SAID LOT, THENCE FLOOT HIS WEST LINE OF SAID LOT
TO THE SOUTHWEST CORNER HEREOF, THENCE EAST ON THE SOUTH LINE OF SAID LOT TO A
FOINT FORTY (40) FEET MEST OF THE SOUTHEAST CORNER OF SAID LOT DEBING THE FOINT OF

LOTS ONE (I) AND TWO (2) IN BLOCK ONE (I) IN SHINNEMAN'S FIRST ADDITION TO COLUMBIA, NOW CITY OF COLUMBIA CITY

Professional Surveyor's Certification

TO: NEIGHBORHOOD HOMES (APTS, LP, COLUMBIA CITY REDEVELOPMENT COMMISSION OF WHITEY COUNTY, CREA SILP, LLC, INDIANA, FIRST MERCHANTS BANK, METROPOLITAN TITLE COMPANY OF INDIANA, LIC, AND EACH OF THEIR SUCCESSORS AND ASSIGNS.

THIS IS TO CERTIFY THAT THIS MAP OR FI.AT AND THE SURVEY ON WHICH IT IS BASED MERE MADE IN ACCORDANCE WITH THE "MINIMAM STANDARD DETAIL REQUIREMENTS FOR ALTANOPS LAND THIS BURYETS", ONLINITY ESTABLISHED AND ADDITED BY ALTA AND NEPS, AND INCLUDES ITEMS I, 2, 3, 4, 69, 10, To(I), 8, 9, 100, II, 13, 16, 11, 16 AND IN OF TABLE A. THEREFOR PRESIDENT TO THE ACCURACY STANDARDS AS ADDITED BY ALTA AND NEPS, BUT IN EFFECT OF THE DATE OF THIS CERTIFICATION, INDERSIGNED FIRTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF INDIAN, THE RELATION PROPRIES OF THIS CERTIFICATION, INDERSIGNED FIRTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF INDIAN, THE RELATION PROPRIES OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

DATED JANUARY IITH, 2019 BY: TODD R. BAJER, PS - INDIANA PROFESSIONAL SURVEYOR

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THIS PLAT REPRESENTS A SURVEY CONDUCTED UNDER MY SUPERVISION IN ACCORDANCE WITH TITLE 865 IAC, ARTICLE I, RULE 12, SECTIONS I THROUGH 30 FOR AN SUBURBAN CLASSIFICATION BOUNDARY RETRACEMENT SURVEY.

DATES OF FIELDWORK: JULY 5TH & 9TH, 2019 IN WITNESS WHEREOF, I HEREUNTO PLACE MY HAND AND SEAL, THIS 11TH DAY OF JANUARY, 2019

I AFFIRM, UNDER THE FENALTIES FOR FERJIRY
THAT I HAVE TAKEN REASONABLE CARE TO
REDACT EACH SOCIAL ECCURITY INVESTER IN
THIS DOCUMENT, UNLESS REQUIRED BY LAW.

182297 NEIGHBORHOOD HOMES & APTS, LP RELASED

ForeSight St. ForeSight TO. Certification:

INNOVATION.

EXPERIENCE.

eyors eyors e #51 46825 phone 80 fax ite.biz

ght Consulting, L

and Engineers & Survey

and Engineers & Survey

boe Center Road, Suite

Fort Wayne, Indiana 4t

260.484.9900 pt

260.484.9981

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Performed for: į, 46725

lot Indiana Addition of Part City Columbia First and Street, 00 S Shinnemans Buren Van

SURVEY

TITLE

Lots Drawing Revisions West

Commission Number 182297

Date

January 11th, 2019 Title

Professional Surveyor's Report

IN ACCORDANCE WITH THE 265, ARTICLE I, RULE I2, SECTIONS I THROUGH 29 OF THE INDIANA ACMINISTRATIVE FOOCE. THE FOLLOWING REPORTS IS SERVING REGARDING THE VARIOUS ACMINISTRATIVE OF THE VARIOUS OF THE LINES AND CORREST ESTABLISHED OR THIS FANCE. A RESULT OF

(A) VARIANCES IN REFERENCE MONIMENTS:
(B) DISCREPANCIES IN RECORD CEECAPPICOS AND/OR FLATS:
(B) DISCREPANCIES IN RECORD CEECAPPICOS AND/OR FOSESSION:
(IN LICENTE FOSITIONAL ACCURACY (RPA) THE ACCEPTABLE RELATIVE POSITIONAL
ACCURACY FOR THE VARIOUS SURVEY CLASSIFICATIONS ARE AS FOLLOWS:
(2) SUBJURGAN SURVEYS: O.15 PEET PLUS ICO PARTS PER MILLION.
(2) SUBJURGAN SURVEYS: O.15 PEET PLUS ICO PARTS PER MILLION.

(3) NIRAL SUNVEYS, OJE FEET FLUS 200 FAKTS PER MILLION.

VARIANCES IN DEED VS. MEASURED DIMENSIONS

THERE MAY BE VARIANCES BETWEEN THE DEED DIMENSIONS AND THE MEASURED

DIMENSIONS ALONG THE ESTABLISHED BOUNDARY LINES SHOWN ON THIS FLAT OF

SURVEY. LIKEMISE, THERE MAY BE FOUND SURVEY MOUNDENTS NEAR BUT NOT

FREEDER AT SOME BOUNDARY COMPRES, WERE THE MEASURED OF THESE ARRINGES.

THAN THE WICKERTAINTY IDENTIFIED FOR THE REFERENCE MOUNDENTAIND, THE

FURFUSES OF MATHEMATICAL CLOSURE, WEEN SUCH MEASURED VARIANCES ARE

ORBATTES THAN THE RELATIVE POSITIONAL ACCURACY AND THE UNCERTAINTY IN

REFERENCE MOMENTS, THESE VARIANCES ARE WORTHY OF DISCUSSION AND ARE

ADDRESSED IN THIS REFORT,

THIS SURVEY AND ASSOCIATED REPORT ARE BASED IN PART UPON THE OPINIONS FORWED IN ACCORDANCE WITH AN INDIANA LAND SURVEYOR'S RESPONSIBILITY TO CONDUCT A SURVEY IN ACCORDANCE WITH LAND SURVEYOR'S RESPONSIBILITY TO RULES OF THE INDIANA STATE BOARD OF REGISTRATION FOR LAND SURVEYORS). SINCE INDIANA SHA SO STATUTES ADDRESSING HOW TO RESOLVE BOANDARY LINES. A SOLUTION BASED ON PRINCIPLES DERIVED FROM COMMON LAM PRECEDENT MIST BE RELIED UPON AS THE BASIS FOR A BOUNDARY RESOLUTION.

HORIZONTAL POSITIONING METHODOLOGY:
THE HORIZONTAL TOLATION OF ALL FOUND AND ESTABLISHED MONMENTS ARE BASED UPON
THE HORIZONTAL TOLATION OF ALL FOUND AND ESTABLISHED MONMENTS ARE BASED UPON
BY ISHING PARTY GLOBAL FOOTBORNING FOR SECURIOUS OF THE INDIAN DEPARTMENT OF TRANSPORTATION "INCORS" VIRTUAL
REFERENCE LAND SURVEYING NETWORK.

BASIS OF BEARING THE BASIS OF BEARING FOR THIS SIRVEY IS BASED UPON INDIANA STATE PLANE COORDINAT ZONE EAST GEODETIC GRID BEARING VALUES AS SHOWN AND REPRESENTED ON THE FLAT OF THIS SURVEY.

TITLE COMPINENT
METROPOLITIAN TITLE OF NOTIONA LLC/PIRST AMERICAN TITLE INSURANCE COMPANY TITLE
COMMITMENT FILE NO: ISHIFOA NITH AN EFFECTIVE DATE OF DECEMBER 12TH, 2018 AT 6.00
AM HAS BEEN VILLED. AND RELECT UPON FOR THE PRIPOSE OF COMPLETING THIS
ALTANESP LADO TITLE BRIVEY.

RETERBICE INFORMATION UTILIZED THIS SURVEY
THE RECORDED DOCUMENTS FOR THE SUBJECT PARCEL AND THE ADJOINING PARCELS WERE
UTILIZED DURING THE COURSE OF THIS BOUNDARY SURVEY.

THE PLAT OF SHINNEMAN'S FIRST ADDITION AS RECORDED WITHIN THE OFFICE OF THE RECORDER OF WHITLEY COUNTY, INDIANA

THE ORIGINAL PLAT TO COLUMBIA AS RECORDED WITHIN THE OFFICE OF THE RECORDER OF WHILEY COUNTY, INDIANA.

THE PLAT OF SCHOOL ADDITION AS RECORDED WITHIN THE OFFICE OF THE RECORDER OF WHILLEY COUNTY, INDIANA. THE PLAT OF HARLEY'S ADDITION AS RECORDED WITHIN THE OFFICE OF THE RECORDER OF WHITLEY COUNTY, INDIANA

AVAILABILITY AND CADITICAL OF RETERIONE MANAGEMS
THE BONDARY LINES OF THE LANDS OF COLUMBIA CITY REDEVELOPMENT COMMISSION, OF
WHILEY CANNY, INDIANA AS RECORDED IN DOCUMBIT IMMERS 20/31/02/34 WITHIN THE OFFICE
OF RECORDER OF WHILEY COANY, INDIANA ARE DEPENDENT UPON THE CONTROLLING LINES OF
THE AFFORE PORTINGED SHINNEWANS FIRST ADDITION.

A "WALKER" IDENTIFICATION CAP WAS FORD AT THE SOUTHEAST CORNER OF LOT NIMBER 3 (NEST RIGHT OF LINE OF THE NORTH-SOUTH ALLEY), AND A 5/6* REDAR WAS FORD NEAR THE NORTHEAST CORNER OF LOT 3. THESE MOUNDAINS CORRELATED WILL PHYSICAL WHYROUGH STATIS, AND TWO MARKALLS WITH "WALKER" IDENTIFICATION WAS PERS FORD ALONS THIS LINE, AND WERE USED TO ESTABLISH THE RIGHT OF WAY LINES OF THE NORTH-SOUTH ALLEY.

A 'WALKER' IDENTIFICATION CAP WAS FOUND NEAR THE SOUTHWEST CORNER OF LOT 4, THIS MOUNTENT CORNELATED WELL WITH PRYSICAL IMPROVIDENTS, AND 'WALKER' IDENTIFICATION CAPS FOUND AT THE SOUTHWAST AND SOUTHWEST CORNERS OF LOT NAMER 3, AND WERE USED TO ESTABLISH THE RIGHT OF WAY LIKES OF THE EAST-WEST ALLEY.

A 5/6" REDAR WAS FOUND NEAR THE NORTHWEST CORNER OF THE SOUTHERN FORTION OF THE SUBJECT PARCEL. THIS MONMENT WAS IN GENERAL HARMONY WITH RECORD DIMENSIONS AND PHYSICAL IMPROVEMENTS, OUT TO A LACK OF MONMENTS FOUND AT THE CORNERS OF THE SUBJECT PARCEL, THIS IS BELIEVED TO BE BEST AVAILABLE EVIDENCE OF SUCH CORNER, AND MAS USED TO STRABLESH THE VEST LIKE OF THE SUBJECT OF THE SUBJ

DESCRIPACION IN RECORD DESCRIPTIONS AND/OR PLATE
THERE IS UNCERTAINTY IN THE LOCATION OF THE RIGHT OF MAY LINES OF NORTH LINE STREET, IT
THERE IS UNCERTAINTY IN THE LOCATION OF THE RIGHT OF MAY LINES OF NORTH LINE STREET.
SECTION IN THAT PLANS ALMON ENTITLINES STREET IT IS BELIEVED THAT THIS COCKATION RIGHT
SECTION IN THAT RICH ALMON ENTITLINES STREET. IT IS BELIEVED THAT THIS COCKATION RIGHT
ADDITIONAL RIGHT OF THAT INCLIDING THE PLAT SHINESHAME FIRST ADDITION, DEDICATED
ADDITIONAL RIGHT OF MAY IN ORDER TO CREATE AN EQUIDISTATE 225 FOOT RIGHT OF MAY
FOR NORTH LINE STREET, HOWEVER, DET OF A LACK OF MOMENTATION, ALMOS TREES RIGHT
OF MAY LINES AND THE ILLEGIBLE PARTIALLY ILLEGIBLITY OF THE TEXT OF THE PLATS, THERE
IS AN UNCENTAINTY IN THESE RIGHT OF WAT LINES.

DISCREPANCIES IN LINES OF OCCUPATION AND/OR POSSESSION.
THE WEST ADJOINER'S BUILDING IS A MAXIMUM OF 0.6 FEET EAST OF THE WEST LINE OF THE
CULTURED REPORT.

NO OTHER SIGNIFICANT DISCREPANCIES WERE FOUND IN LINES OF OCCUPATION DURING THE COARSE OF LAND SURVEYING FIELD OFFRATIONS

OF LOCATION.

DE ABOVE, THE BOUNDARY LINES OF THE LANDS OF COLUMBIA CITY REDEVELOPMENT
SION, OF WHITLEY COUNTY, INDIANA AS RECORDED IN DOCUMENT INVERS 2013/1002944

E OFFICE OF RECORDER OF WHITLEY COUNTY, INDIANA ARE DEFENDENT UPON THE
LINES LINES OF THE AFOREMENTIONED SHINNEMAN'S FIRST ADDITION.

THE PLAT OF SHINDMAN'S FIRST ADDITION MAKES NO RETERINGE TO THE TYPE OR CHARACTERISTICS OF MONMONTS SET AT THE TIME OF THE CHICAL BURNEY, THEREFOR, IT CHARACTERS CONTINUED TO MONTH OF THE CHICAL BURNEY, THEREFOR, IT WAS THE CONTINUED TO CONTINUE THE CONTINUED FOR THE PROPERTY OF VAN BURNEY TO LOOK OF CONTINUED FOR WORLDOOK THE PHYSICAL IMPROVED-BUTS OF VAN BURNEY STREET, MORTH LINE STREET, JACKSON STREET, AND WALN'S STREET WERE VESTED THE RESERVENCE WERE THE THE THE PROPERTY WAS THE PROPERTY OF STREET, AND WALN'S STREET WERE VESTED THE RESERVENCE WERE THE PAY LINES.

A LINE WAS CREATED BETWEEN THE 5/8" REBAR FOUND NEAR THE NORTHEAST CORNER AND IT "MALKER" (DENTIFICATION CAP FOUND AT THE SOUTHEAST CORNER OF LOT 3 MICH WAS THEN EXTENDED TO THE SOUTH RIGHT OF WAY LINE OF JACKSON STREET AND THE NORTH RIGHT OF WAY LINE OF THE NORTH SOUTH RIGHT OF WAY LINE OF THE NORTH-SOUTH ALLEY.

A LINE WAS THEN CREATED PARALLEL AND 16.5 FEET EQUIDISTANT TO THE PREVIOUSLY ESTABLISHED NORTH RIGHT OF WAY TO ESTABLISH THE SOUTH RIGHT OF WAY LINE OF SAID EAST-WEST ALLEY.

Columbia City CBD Land Use Zoning Information

8 6.04 CENTRAL BUSINESS DISTRICT.

- 1. Accommodate and encourage the most desirable, most productive, most intense use of land, without regard to the regulation of percent of land coverage or parking space requirements within the central core area of the city.
 - 2. Preserve and promote the public and private investment of the existing central core
- B. Permitted uses: Permitted uses are the same as those for the General Business District under § 6.03 A.1. - 3. of this Chapter.
- C. Performance standards: The following regulations shall apply in the Central Business District (CBD) in addition to the General Provisions in <u>Chapter 2</u>. Commercial accessory uses are subject to the same provisions as the principal use unless otherwise noted in this ordinance.
- Height requirement: Except as otherwise provided, the following height requirements shall apply to all buildings, structures, and uses in this district.
- a. All primary structures shall not exceed a height of 50 feet.
- Ground floor area: The minimum ground floor area is not applicable to business districts for business uses. The minimum ground floor area shall be 950 square feet for a single-story dwelling unit. The minimum ground floor area shall be 800 square feet for a multiple-story dwelling unit. The minimum ground floor area excludes all garages, porches, basements, and breezeways. In a multi-family dwelling, each dwelling unit shall have at least 750 square feet of
- D. Other regulations: Other regulations are the same as for the General Business District in \S 6.03 B., except for
- 1. The CBD is exempt from the off-street parking and loading requirements in Chapter 10.
- The CBD setbacks are the same as for the General Business District, except that currently
 existing structures may add on so long as they do not encroach any further into a required
 setback and any new structural development may go before the Executive Committee for
 expected of a classe solvable.
- E. The CBD was established by city Ordinance Number 984, which contains those properties located in the following map (Figure 6.1) as part of the City Central Business District Economic Revitalization Area.

Before additional area, contiguous to that area presently designated CBD, be considered for inclusion within the CBD District consideration should be given to the appropriateness of the General Business District. This alternate designation is intended to create a less congested district than that of the CBD.



FIGURE 6.1 Central Business District

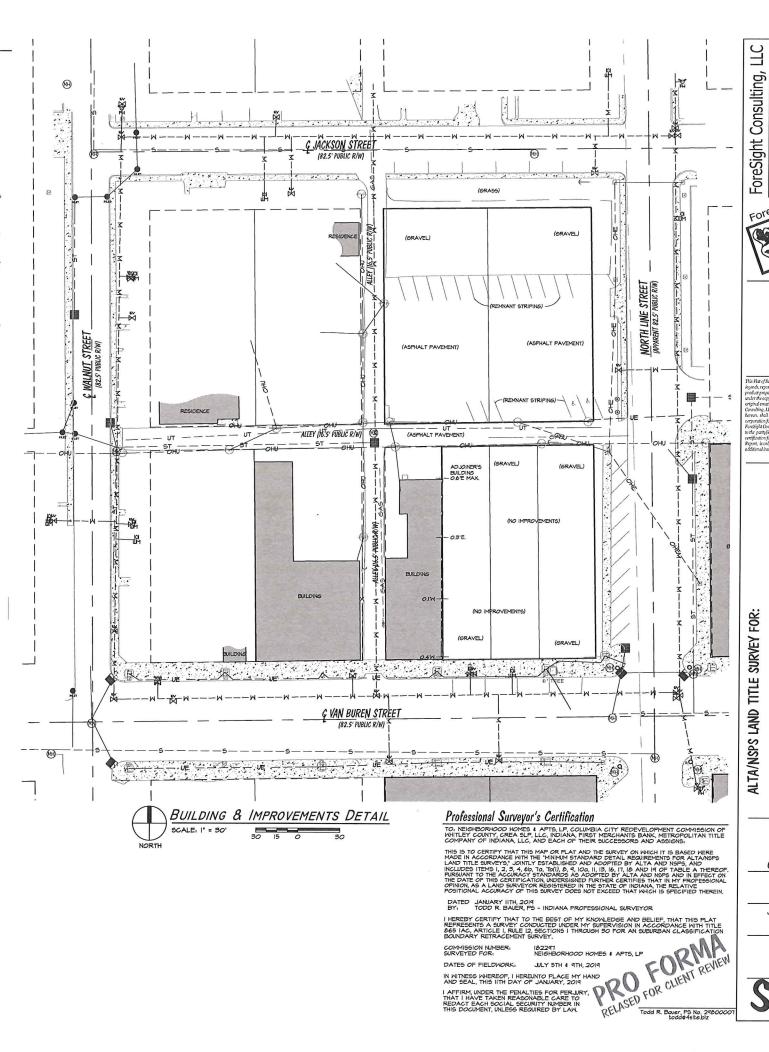
(1980 Code, § 6.04) (Ord. 1995-7, passed 6-5-1995; Am. Ord. 2001-22, passed 12-27-2001)

(General Business District Performance Standards)

- B. Performance standards: The following regulations shall apply in the General Business District (GB) in addition to the General Provisions in Chapter 2. Commercial accessory uses are subject to the same provisions as the principal use unless other rwise noted in this ordinance
- 1. Lot area: The lot shall contain not less than 5,000 square feet.
- 2. Lot width: The minimum lot width shall be 50 feet and when the depth is less than
- 3. Lot frontage: All lots within the GB District shall maintain a minimum of 50 feet of frontage on a publicly or privately maintained street.
 - 4. Yard and setback requirements:
 - (a) Front yard: Not less than 25 feet from the property line.
- (b) Side yards: Least width of either side yard shall not be less than ten feet except in the case of a corner lot, where the side yard on the street side shall not be less than the required front yard setback.
- 5. Height requirement: Except as otherwise provided, the following height requirements shall apply to all buildings, structures, and uses in this district.
 - (a) All primary structures shall not exceed a height of 50 feet.
- 6. Ground floor area: The minimum ground floor area is not applicable to business districts for business uses. The minimum ground floor area shall be 950 square feel for a single-story dwelling unit. The minimum ground floor area shall be 800 square feet for a multiple-story dwelling unit. The minimum ground floor area shall be 800 square feet for a multiple-story dwelling unit. The minimum ground floor area excludes all gazages, porches, bastements and breezeways. In a multi-family dwelling, each dwelling unit shall have at least 750 square feet of
- 7. Lot coverage: The maximum lot coverage in a General Business District is 50% of
- 1. Off-street parking: For residential uses, two parking spaces per dwelling unit, excluding garages. Other off-street parking requirements as set forth in Chapter 10.
 - 2. Sign requirements: Sign requirements as set forth in Chapter 11
- 3. Operations in an enclosed building: All operations shall be conducted within a fully enclosed building. The Board of Zoning Appeals may allow for outdoor storage and/or retail use in conjunction with a permitted use as a special exception as set forth in Chapter 12. Board of

Columbia City Zoning Ordinance Chapter 6 Page 8





RESULTS.

INNOVATION.

Profession: 1910 St.

Certification:

Performed for:

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Addition

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Shinneman

Drawing Revisions

Commission Number 182297

Date

January 11th, 2019

Title

City,

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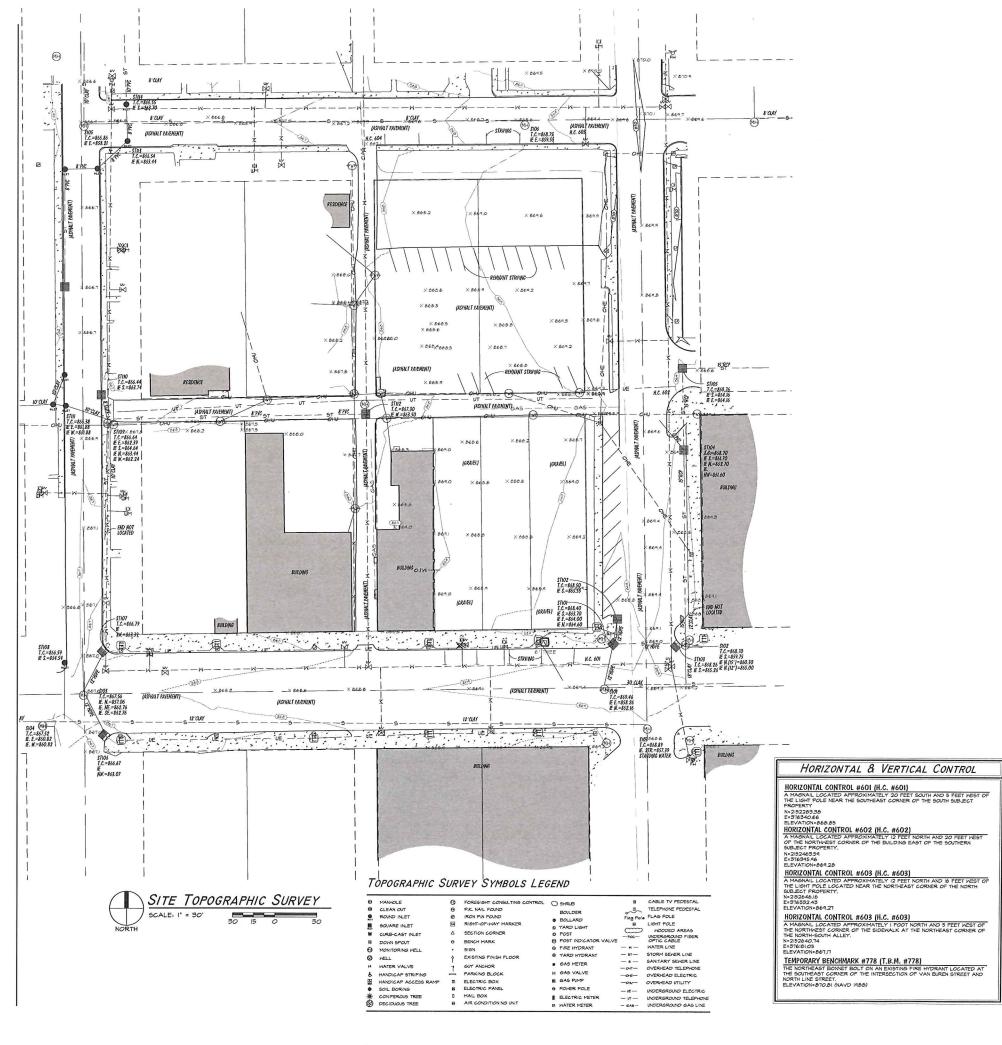
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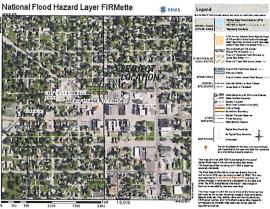
West

306





SITE LOCATION MAP NOT TO SCALE





GENERAL NOTES

- THE LOCATION AND DIMENSIONS OF ALL BUILDING STRUCTURES ON THE FACE OF THIS SURVEY (IF APPLICABLE) ARE NOT INTENDED FOR STRUCTURAL DESIGN.

DISTURBING INDERERGOAD UTILITIES MAY RESULT IN SUBSTANTIAL PENALTIES AND DAMAGES FOR PRICING YOU MILL DELIABLE. BEFORE DIGGING OR EXCAVATING OF DELIABLE PENALTIES AND DELIABLE PENALTIES AND THE PENALTIES OF CALLING I-BOO-582-5844. ADDITIONAL INTHIFSE MAY FOR BE INCLUDED IN THE ONE-CALL UTILITY LOCATION SERVICE AND IT IS YOUR ADDITIONAL RESPONSIBILITY TO CONTACT EACH OF THESE UTILITY PROVIDERS.

- THE IDENTIFICATION AND DELINEATION OF VETLANDS WERE NOT A PART OF THE SURVEYING SERVICES PROVIDED. FEDERAL AND STATE LEGISLATION HAS DEFINED AND ESTABLISHED RESTRICTIONS FOR THE PROTECTION OF PETLANDS. THE PRESEND OF WEILANDS ON OR MEAR YOUR PROFERTY MILL LIMIT OR RESTRICT THE USE AND IMPROVEMENT OF YOUR PROFERTY. YOU SHOULD CONSULT WITH YOUR STORY DEPOSITION OF YOUR PROFERTY. YOU SHOULD CONSULT WITH YOUR STORY DEVINE PROFESTION ASSENCY FOR A MORE DETAILED EXPLANATION ON IDENTIFYING WEILANDS AND LANG MEANT OR DEVINE THEIR PROTECTION.
- ELEVATIONS ON THIS SURVEY ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM 1988.

<u>Item</u>	Vertical Accuracy 7	Tolerance (Feet)	Horizontal Accurac	y Tolerance (Feet)
Contour Line (1 Foot Interval)	0.65	plus or minus	1'	plus or minus
Contour Line (5 Foot Interval)	3.20	plus or minus	4'	plus or minus
Contour Line (10 Foot Interval)	6,50	plus or minus	8'	plus or minus
Finish Floor Elevations	0.05	plus or minus	1'	plus or minus
Spot Paving Elevations	0.05	plus or minus	1'	plus or minus
Spot Ground Elevations	0,20	plus or minus	2'	plus or minus
Sewer Invert Elevations	0.05	plus or minus	1'	plus or minus
Well Defined Planimetric Features	0,10	plus or minus	1'	plus or minus

PROFESSIONAL SURVEYOR CERTIFICATION

THE INDERSIGNED PROFESSIONAL SURVEYOR, REGISTERED UNDER THE LAWS OF THE STATE OF INDIANA, HEREBY CERTIFIES THAT HE HAS CONDUCTED THIS TOPOGRAFULAL AND UTILITY SURVEY, INDER HIS DIRECT SUFFERYISION,

182271 WEIGAND CONSTRUCTION DATES OF FIELD WORK: JULY 5TH & 9TH, 2018 FIELD WORK COMPLETED: JULY 5TH, 2018

Tool Plane Todd R. Baver, PS No. 29800007 todd@4site.biz

No. 29800007

Civil Engineering ~ Land Survey 1910 St. Joe Center Road, Suite 3 Fort Wayne, Indiana 466 266.484,9990 Ph. 260.484,9980 ForeSight Consulting,



Performed for:

į 1 fot Addition fo Part FOR: City, nbia SURVEY Colum

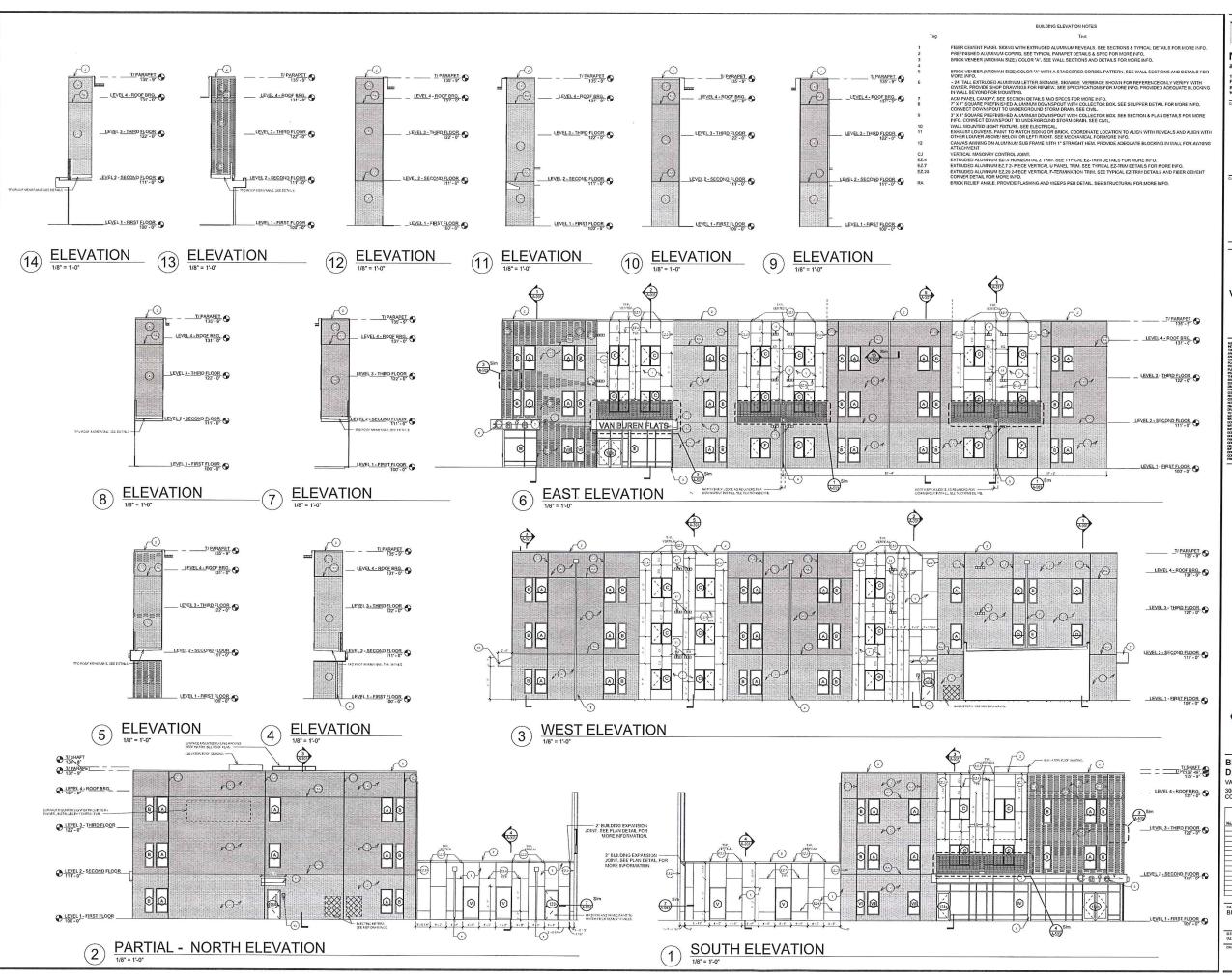
First, and Street, SITE TOPOGRAPHIC S Lots 1, 2, 8, 0 Shinnemans Buren Van West 306

Drawing Revisions

Commission Number 182297

Date July 10th, 2018

Title



MKM

architecture + design





ALL DEAL DESIGNS, ATTAMOBILENTS AND PLANS INDECATED BY THIS DRAWING ARE OWNED BY, AND THE PROPRIETY OF BIOG AREATETUTE + DESIGNS, AND MUSE CREATED AND DEVELOPED FOR LIST ON, AND MUSE CREATED AND DEVELOPED FOR LIST ON.





BIGGS T.C. DEVELOPMENT VAN BUREN FLATS 306 W. VAN BUREN ST. COLUMBIA CITY, IN 46725

No. Date Revision

BUILDING ELEVATIONS

ISSUE DATE PROJECT NO. 18085 A-201

		Lui	minaire Schedule			
Label	Vanufacturer	Catalog Number	Description	Lumens	Light Loss Feeter	Wattage
POI	Lithonia Lighting	DSX1 LED P1 30K TFTW MVOLT HS	DSX1 LED P1 30K TFTM MVOLT with houseside shield	5046	0.9	54
P02	Lithonia Lighting	DSX1 LED P13 30K T3M MVOLT HS L90	DSX1 LED P13 30K T3W MVOLT with houseside shield with optics rotated 90 degrees left	20214	0.9	231
W01 (UP)	Lithonia Lighting	0W2201-NRW	WALL MOUNT CYLINDER - DOWN LICHT NARROW	1610	0.9	28.6
WOI (DOWN)	Lithonia Lighting	OW2201-MED	WALL WOUNT CYLINDER - DOWN LIGHT WEDIUM	2251	0.9	28.7
G01& G02	Lithonia Lighting	05x8 LED 12C 700 30K ASY	D-SERIES BOLLARD WITH 12 JOOOK LEDS OPERATED AT 700mA AND ASYMMETRIC DISTRIBUTION	2173	0.9	31
L13 L13E	Lithonia Lighting	LDN4 30/05 LO4AR LS	4N LDN, 3000K, 500LM, 80 CRI, CLEAR, SPECULAR REFLECTOR	666	0.9	8.52

		St	atistic	S		
Description	Symbol	Avg	Max	Min	Max/Win	Avg/Vi
Calc Zone #1	+	0.3 fc	14.9 fc	0.0 fc	N/A	N/A



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	This is on original design, creat The concepts, ideas, plane and		
	of SCO ENGREEPING, LLC. No or details and be used by or or corporation for any purpose	ne of the concepts, ideas, plans disclosed to any person, firm	•
	permission of SCO DIGNEEPING	LLC. Witten dimensions on adence over ecole dimensions	
	notified of any variation from t	SCO DICINEEPING, LLC must be the dimensions and conditions	
	shown on these drawings. Sho to SCO DATABLETONS, LLC for a Comprise	p drovings shall be submitted approved before fabrication. it 2019 O	

MKM architecture + design

lıJ WEIGAND
CONSTRUCTION
Trust. Well built."





BIGGS T.C. DEVELOPMENT VAN BUREN FLATS 306 W. VAN BUREN ST. COLUMBIA CITY, IN 46725

REVISION		
190.	Data	Revision
1	2/12/19	Revision ADDENDUM (1
-		
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-		

Electrical Site Lighting Plan

ISSUE DATE | PROJECT NO | 18085 (182344) | DRAWING NO

CE-202

