

#### GENERAL LEGEND **EXISTING LEGEND** PROPERTY LINE — x — EXISTING FENCE PROPERTY LINE ----- W ----- EXISTING WATER LINE XXX/XXX DEED BOOK AND PAGE ---- OHE ---- EXISTING OVERHEAD ELECTRIC LINES TO BE REMOVED ----- UGE ----- EXISTING UNDERGROUND ELECTRIC LINES T.R.U. TO REMAIN UNDISTURBED ----- OHT ----- EXISTING OVERHEAD TELEPHONE LINES X'SBL ----- UGT ----- EXISTING UNDERGROUND TELEPHONE LINE SETBACK LINE PROPOSED ACCESSIBLE PARKING SPACE ——— GAS ——— EXISTING GAS LINE S.S.E. SANITARY SEWER EASEMENT ----XXX----- EXISTING CONTOUR & ELEVATION G.E. GAS EASEMENT FLOW LINE EXISTING SANITARY SEWER AND W.L.E. WATER LINE EASEMENT E.E. ELECTRIC EASEMENT ——— ST ———— EXISTING STORM SEWER AND INLET D.E. DRAINAGE EASEMENT U.E. UTILITY EASEMENT

**GENERAL NOTES** 

1. BOUNDARY AND TOPO BY BYNUM FANYO AND ASSOCIATES, 528 NORTH WALNUT

3. PROJECT ADDRESS: MAXWELL LANE FROM SHORT STREET TO MILLER DRIVE

6. HYDRANT LOCATION SHALL BE APPROVED BY THE LOCAL FIRE MARSHALL.

SHALL PAY ALL COSTS ASSOCIATED WITH RELOCATION.

4. ALL WORK IS TO BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.

5. ALL PERMITS ARE TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START

7. EXISTING UTILITIES ON SITE SHALL BE RELOCATED AS REQUIRED. CONTRACTOR

8. SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT

PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.

STREET, BLOOMINGTON, INDIANA 47404, PHONE (812) 332-8030

2. DEVELOPER: CITY OF BLOOMINGTON

OF CONSTRUCTION

$\bigcirc$ A	PROPOSED ROAD BITUMINOUS PAVING
$\bigcup$ B	PROPOSED WEDGE AND LEVELING USING 110# BITUMINOUS SURFACE #11 ON BITUMINOUS BINDER # 8 OR 9
W	PROPOSED ALL-PURPOSE TRAIL BITUMINOUS PAVING
c	PROPOSED REINFORCED CONCRETE PAVING
F	PROPOSED CONCRETE SIDEWALK
F1	PROPOSED MONOLITHIC CURB AND SIDEWALK
PP	PROPOSED CITY OF BLOOMINGTON STANDARD ROAD PAVEMENT PATCH
13	PROPOSED 6 IN STANDING CURB
15	PROPOSED 6 IN CONCRETE CURB AND GUTTER
(R1)	PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP TYPE G
R2	PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP TYPE A
(R3)	PROPOSED SIDEWALK ACCESSIBLE RAMP TYPE H
(R4)	PROPOSED SIDEWALK ACCESSIBLE RAMP TYPE K
<b>R5</b>	PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP TYPE E
21	PROPOSED SOLID WHITE 4 IN. WIDE PAINTED PAVEMENT MARKING
29	PROPOSED SOLID WHITE 12 IN. WIDE PAINTED CROSS HATCH PAVEMENT MARKING - SPACED AT 5 FT. O.C. IN LIMITS SHOWN
(20)	PROPOSED SOLID BLUE 4 IN. WIDE PAINTED ADA PARKING MARKING
36	PROPOSED SOLID THERMOPLASTIC WHITE 24 IN. WIDE STOP BAR PAVEMENT MARKING
38	PROPOSED SOLID WHITE THERMOPLASTIC 24 IN. WIDE CROSSWALK PAVEMENT MARKING - 24 IN. SPACING
R1-1	PROPOSED INDOT 30 IN. X 30 IN. ROAD STOP SIGN
RW	PROPOSED REINFORCED CONCRETE RETAINING WALL AND RAILING - REFER TO STRUCTURAL DRAWINGS FOR MORE DETAILS
XX	PROPOSED NUMBER OF PARKING SPACES PER LOT
B	PROPOSED BOLLARD
<b>S</b> <sub>#</sub>	PROPOSED CONCRETE STAIRS SPACED 4 FT. O.C. MIN. AS REQUIRED, STEP HEIGHT VARIES, 7 IN. MAXIMUM, REFER TO GRADING PLAN FOR MORE INFORMATION
(S1) <sub>#</sub>	PROPOSED WOOD STAIRS TO 2ND FLOOR AS REQUIRED, RISER HEIGHT VARIES, REFER TO GRADING AND ARCHITECTURAL PLANS FOR MORE INFORMATION
BP	PROPOSED BIKE PARKING AREA WITH CONCRETE PAD, REFER TO TYPICAL SIDEWALK CONCRETE DETAIL — REFER ALSO TO LANDSCAPE AND ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AND FOUNDATION INFORMATION
PB	PROPOSED CONCRETE PARKING BUMPER BLOCK, 7 FT. LONG

## UTILITY LEGEND PROPOSED DIP FIRE SERVICE LINE ----- XXX ----- EXISTING GRADE CONTOUR PROPOSED DOMESTIC SERVICE LINE PROPOSED WATER VALVE XXX.XX PROPOSED SANITARY SEWER LATERAL AND FC = XXX.XXSANITARY SEWER CLEAN-OUT FF = XXX, XXPROPOSED STORM SEWER INLET AND PIPE FG = XXX, XXPROPOSED SCHEDULE 40 PVC BUILDING DRAIN FGH=XXX,XX —— GAS ——— PROPOSED GAS SERVICE LINE PROPOSED ELECTRIC SERVICE LINE FP = XXX, XXFR = XXX, XXFS=XXX.XX

LANDSCAPE NOTES

1. ALL PLANT MATERIAL SHALL ARRIVE ONSITE IN A HEALTHY, VIGOROUS CONDTION

2. ALL PLANTS SHALL BE CONTAINER GROWN OR BALLED AND BURLAPPED AS

3. ALL TREES SHALL BE STRAIGHT-TRUNKED, FULL HEADED AND MEET ALL

5. ALL PLANTING MASS BEDS SHALL BE SPADE CUT UNLESS SPECIFIED WITH A MOW STRIP OR OTHER INSTALL EDGING. TREES TO HAVE A 5' DIAMETER MULCH RING.

7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES

DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR

REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES,

ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION. PLANTING

LOCATIONS MAY REQUIRE ADJUSTMENTS IN FIELD TO AVOID OVERHEAD AND

8. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND SPECIES

9. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING AND

PRUNING, FERTILIZING, ETC., UNTIL WORK IS ACCEPTED IN FULL BY THE OWNER.

10. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A

11. THE OWNER SHALL APPROVE THE STAKING LOCATION OF ALL PLANT MATERIAL

12. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE

13. ANY NEW OR TRANSPLANTED PLANT MATERIAL WHICH DIES, TURNS BROWN OR

14. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK"

15. ALL SHRUB, GROUNDCOVER, ANNUAL AND HERBACEOUS PERENNIAL PLANTING

16. DURING THE GROWING SEASON ALL ANNUALS AND HERBACEOUS PERENNIALS

17. ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR

19. ALL DISTURBED AREAS NOT INCLUDED IN LANDSCAPE MULCH BEDS ARE TO BE DEBRIS-RAKED AND FINED-GRADED AS NEEDED, THEN MULCH SEEDED (OR SODDED,

20. ANY PLANT OR OTHER LANDSCAPE MATERIAL SUBSTITUTIONS INSTALLED WITHOUT DESIGNER AND/OR OWNER APPROVAL SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE OWNER BEFORE,

PER PLAN) AND WATERED UNTIL A HEALTHY STAND OF TURF IS ESTABLISHED.

SHALL REMAIN IN A HEALTHY CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.

SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT

TO INSTALLATION. WATER ALL SPECIMENS WITHIN 24 HOURS OF PLANTING.

QUANTITY AND SIZE TO MEET ALL PLANT LIST SPECIFICATIONS.

QUALITY REQUIREMENTS FOR PLANT MATERIAL.

ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST OR DRIP IRRIGATION SYSTEM PRIOR

DEFOLIATES PRIOR TO TOTAL ACCEPTANCE OF THE WORK SHALL BE PROMPTLY

REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES,

REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM

BEDS ARE TO BE COMPLETELY COVERED WITH HARDWOOD MULCH TO A MINIMUM

LAWN AREAS INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING,

PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF TOTAL ACCEPTANCE. THE

CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END

SHOWN ON THESE PLANS BEFORE PRICING THE WORK.

4. ALL TREES SHALL BE GUYED OR STAKED PLUMB AS SHOWN IN THE DETAILS.

6. ALL PLANTING AREAS SHALL BE COMPLETELY MULCHED WHERE SPECIFIED.

AND BE FREE OF PESTS AND DISEASE.

INDICATED IN THE PLANT LIST.

REQUIREMENTS SPECIFIED.

UNDERGROUND UTILITIES.

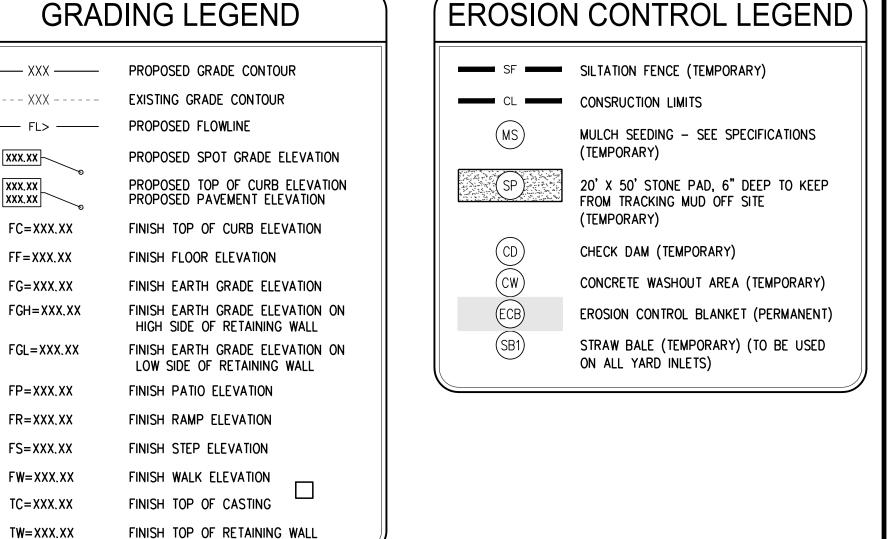
OF THE GUARANTEE PERIOD.

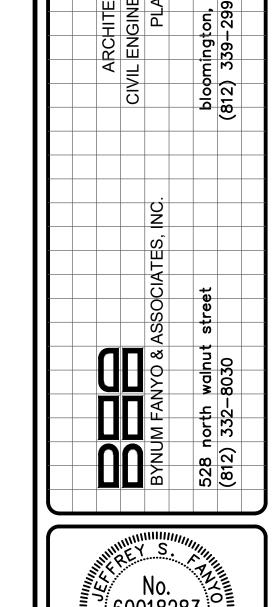
PRIOR TO INSTALLATION.

DEPTH OF FOUR INCHES.

SPACING SHOWN ON PLANS.

DURING AND AFTER INSTALLATION.





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NOTE: ONLY NOTES ON THIS SHEET MARKED WITH AN 🔀 APPLY TO THIS PROJECT.

## NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

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designed by: RLC drawn by: **RLC** 

checked by: **JSF** 

sheet no: C101

project no.: **401852** 

PARKING AND PAVEMENT NOTES

1. ALL SIGNS. PAVEMENT MARKINGS. AND OTHER TRAFFIC CONTROL DEVICES SHALL

2. ALL PAVEMENT MARKINGS SHALL BE PAINTED WHITE ON ASPHALT PAVEMENT

3. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS INDICATED OTHERWISE. ALL

4. CONTRACTOR SHALL FURNISH AND INSTALL PAVEMENT MARKINGS AS SHOWN ON

5. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SIGNS, PAVEMENT

6. JOINTS OR SCORE MARKS ARE TO BE SHARP AND CLEAN WITHOUT SHOWING

7. CONTRACTOR SHALL SAW-CUT TIE-INS AT EXISTING CURBS AS NECESSARY TO

8. CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL"

INSURE SMOOTH TRANSITIONS. CONTRACTOR SHALL SAW-CUT AND TRANSITION TO

MEET EXISTING PAVEMENT AS NECESSARY AND AS DIRECTED BY INSPECTOR TO

OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY A.G.C. OF AMERICA, INC.

AND THE HEALTH AND SAFETY REGULATIONS FOR CONSTRUCTION ISSUED BY THE

MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON

CURB RADIUS ARE TO BE 5' UNLESS INDICATED OTHERWISE.

INSURE POSITIVE DRAINAGE. (TYPICAL AT ALL INTERSECTIONS).

INDICATED OTHERWISE.

EDGES OF JOINTING TOOLS.

U.S. DEPARTMENT OF LABOR.

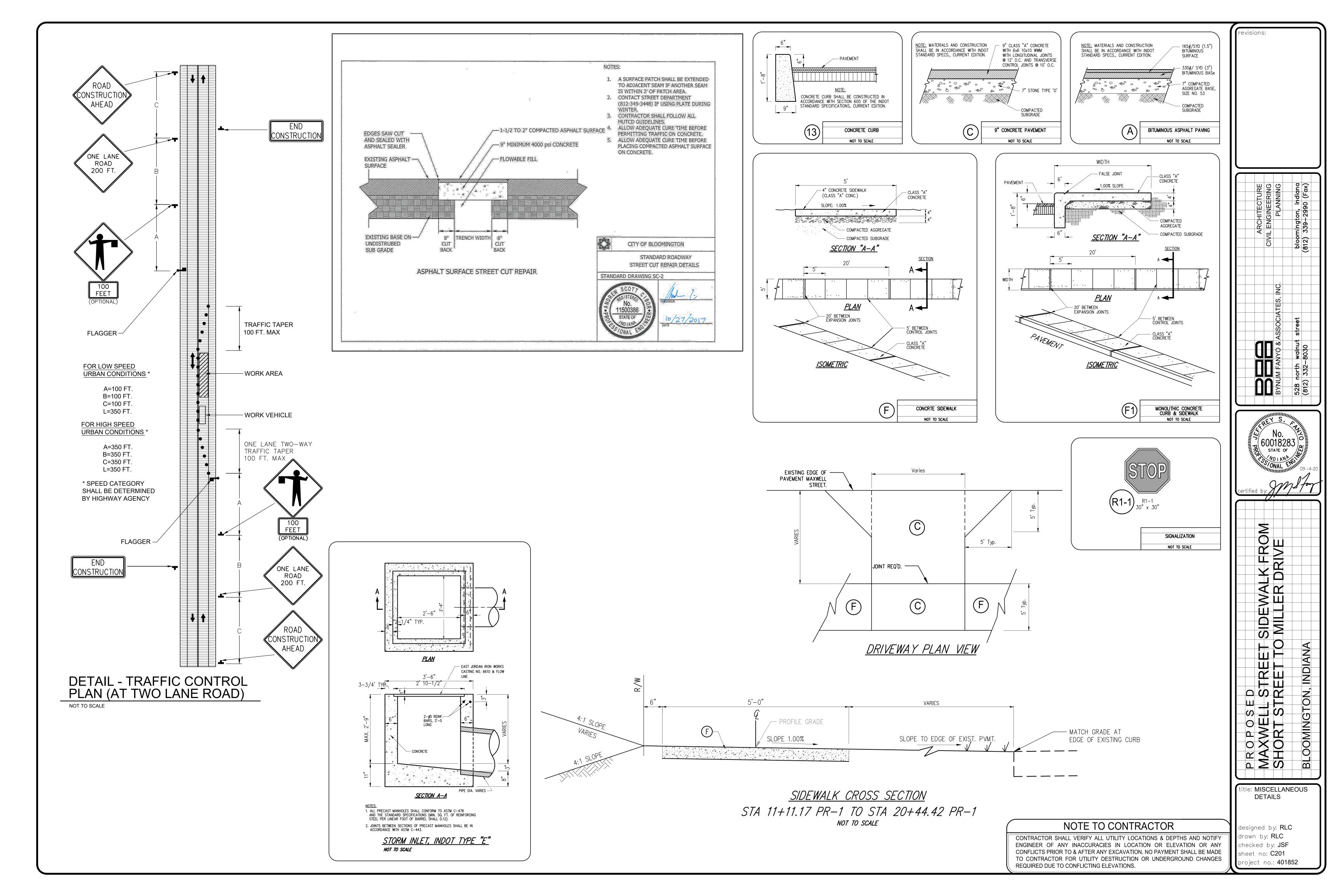
THE PLANS.

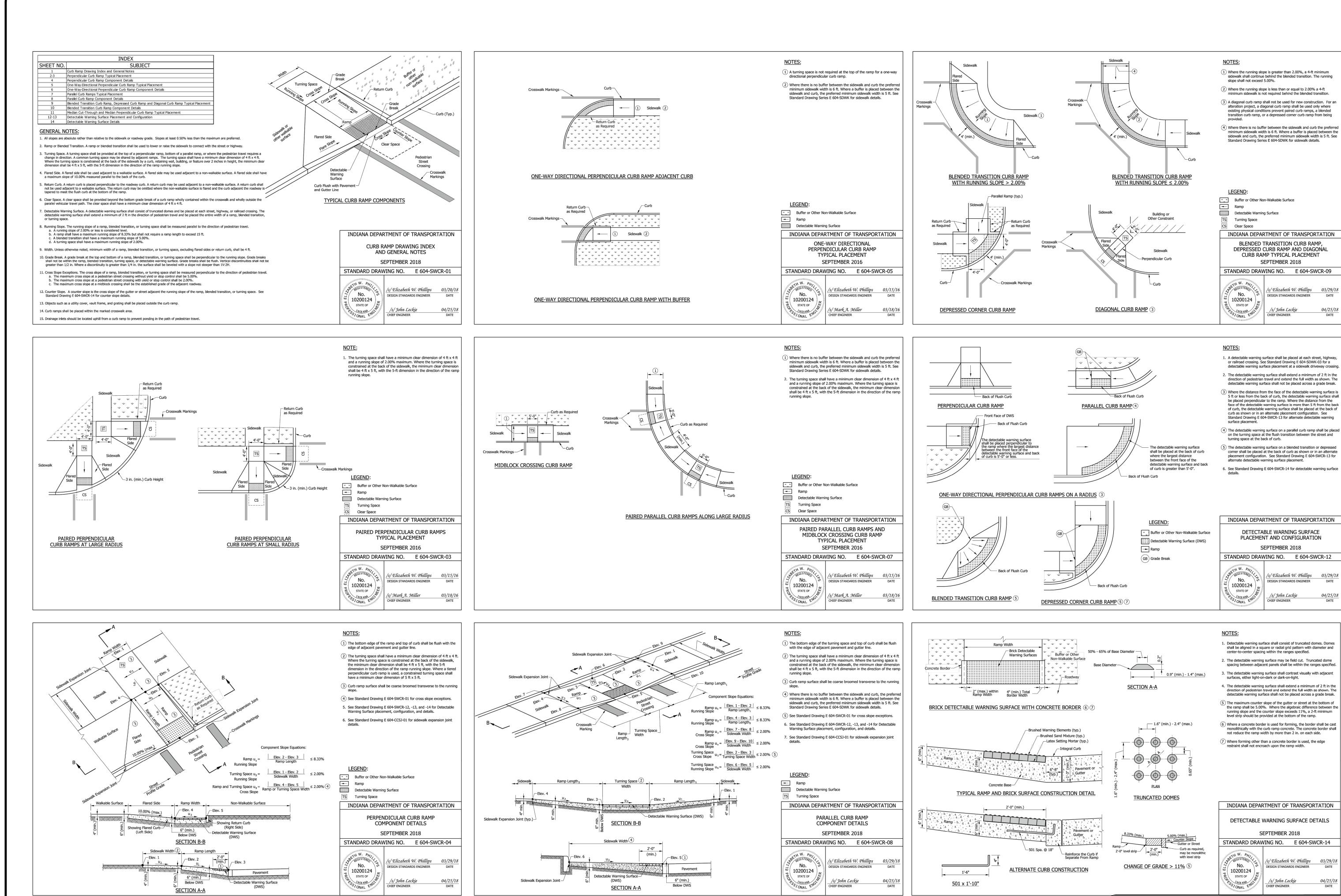
CONFORM TO THE MANUAL ON UNIFORM TRAFFIC DEVICES. 1988 FDITION AS

YELLOW ON CONCRETE PAVEMENT AND SHALL BE FOUR (4) INCHES WIDE UNLESS

# **GRADING NOTES**

- 1. NEW FINISHED CONTOURS SHOWN ARE TOP OF FUTURE PAVING IN AREAS TO RECEIVE PAVEMENT AND TOP OF TOPSOIL IN AREAS TO BE SEEDED OR PLANTED.
- 2. AREAS OUTSIDE OF THE PARKING LOT PERIMETERS SHOWN TO BE SEEDED OR PLANTED SHALL RECEIVE 6" OF TOPSOIL. THIS TOPSOIL IS TO BE PLACED AND LEVELED BY THE CONTRACTOR.
- 3. CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING. RELOCATING. ADJUSTING. OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION WITH ALTERATION OF OR RELOCATION OF THE FACILITY.
- 4. ALL AREAS NOT COVERED BY BUILDING OR PAVING ARE TO BE VEGETATED (SEEDED OR PER LANDSCAPE PLAN).
- 5. UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND
- GRUBBING SHALL BE DISPOSED OF OFF SITE BY CONTRACTOR.
- 6. ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
- 7. BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT AND MARK THE ITEMS ESTABLISHED BY THE SITE PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION. THE LACK OF PROPER WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS AND GRADES HAVE BEEN PLACED TO THE OWNER'S SATISFACTION.
- 8. CONTRACTOR SHALL COMPACT AND MAINTAIN A 30,000 SQ. FT. STONEBASE CONSTRUCTION LAYDOWN AREA W/ STONE ACCESS FROM THE CONSTRUCTION ENTRANCE AND STONE ACCESS TO THE BUILDING PAD.
- 9. THESE DOCUMENTS ARE SCHEMATIC IN NATURE AND CANNOT SHOW EVERY ITEM NEEDED FOR A COMPLETE OPERATIONAL STORM SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE OPERATING STORM SYSTEM.
- 10. ALL FILL SHALL BE FREE OF VEGETABLE MATTER, RUBBISH, LARGE ROCK, AND OTHER DELETERIOUS MATERIAL. THE FILL MATERIAL SHOULD BE PLACED IN LAYERS NOT TO EXCEED SIX (6) INCHES IN LOOSE THICKNESS AND SHOULD BE SPRINKLED WITH WATER AS REQUIRED TO SECURE SPECIFIED COMPACTION. EACH LAYER SHOULD BE UNIFORMLY COMPACTED BY MEANS OF SUITABLE EQUIPMENT AS DICTATED BY THE TYPE OF FILL MATERIAL. UNDER NO CIRCUMSTANCES SHOULD A BULLDOZER OR SIMILARLY TRACKED VEHICLE BE USED AS COMPACTING EQUIPMENT. MATERIAL CONTAINING AN EXCESS OF WATER SHOULD BE SPREAD AND DRIED TO A MOISTURE CONTENT THAT WILL PERMIT PROPER COMPACTION. ALL FILL SHOULD BE COMPACTED TO THE SPECIFIED PERCENTAGE OF THE MAXIMUM DENSITY OBTAINED IN ACCORDANCE WITH ASTM DENSITY TEST D-698 (95 PERCENT OF MAXIMUM DRY DENSITY). IF THE SPECIFIED COMPACTION LIMITS ARE NOT MET, SUCH AREAS SHOULD BE REWORKED AND RETESTED AS REQUIRED UNTIL THE SPECIFIED LIMITS ARE REACHED.





Note: THE CITY OF BLOOMINGTON DOES NOT ALLOW BRICK DETECTABLE WARNINGS.

# NOTE TO CONTRACTOR

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ARCHITECTURE
CIVIL ENGINEERING
NYO & ASSOCIATES, INC.
PLANNING
PLANNING
Ploomington, indigna
(812) 339–2990 (Fax)

No. 60018283
STATE OF
STATE OF
Certified by:

MAXWELL STREET SIDEWALK FROM SHORT STREET TO MILLER DRIVE BLOOMINGTON, INDIANA

e: MISCELLANEOUS DETAILS

designed by: RLC drawn by: RLC checked by: JSF sheet no: C202 project no.: 401852



### PRACTICE 3.74 SILT FENCE (SEDIMENT FENCE)

To retain sediment from small, sloping disturbed areas by reducing the velocity of sheet flow. (NOTE: Silt fence captures sediment by ponding water to allow deposition, not by filtration. Although the practice usually works best in conjunction with temporary basins, traps, or diversions, it can be sufficiently effective to be used alone. A silt fence is not recommended for use as a diversion; nor is it to be used across a stream, channel or anywhere that concentrated

REQUIREMENTS Drainage Area: Limited to 1/4 acre per 100 ft. of fence; further restricted by slope steepness (see Exhibit 3.74-B). **Location:** Fence nearly level, approximately following the land contour, and at least 10 ft. from toe of slope to provide a broad, shallow sediment pool. **Trench:** 8 in. minimum depth, flat-bottom or v-shaped, filled with compacted soil or gravel to bury lower portion of support wire and/or fence fabric. **Support posts:** 2 x 2—in. hardwood posts (if used) or steel fence posts set

at least 1 ft. deep.\* (Steel posts should projections for fastening fabric.) Exhibit 3.74-B. Maximum Land Spacing of posts: 8 ft. maximum if fence supported by wire, 6 ft. for Silt Fence Is Applicable. extra-strength fabric without wire

Land slope above fence Fence height: High enough so depth of impounded water does not exceed | Less than 2% 1 1/2 ft. at any point along fence line. 2 to 5% Support wire (optional): 14 gauge, 6 in. 5 to 10% 50 ft. wire fence (needed if using standard- 10 to 20% 25 ft.

Fence fabric: Woven or non-woven geotextile fabric with specified filtering efficiency and tensile strength (see Exhibit 3.74—C) and containing UV inhibitors and stabilizers to ensure 6—mo. minimum life at temperatures 0°-120°F.

More than 20%

15 ft.

\* Some commercial silt fences come ready to install, with support posts

Exhibit 3.74-C. Spec	ifications Minimums for Si	ilt Fence Fabric.
Physical Property	Woven Fabric	Non-woven fabric
Filtering efficiency Tensile strength at 20% elongation:	85%	85%
Standard strength Extra strength	30lbs./linear in. 50lbs./linear in.	50lbs./linear in. 70lbs./linear in.
Slurry flow rate	0.3 gal./min./sg.ft.	4.5 gal./min./sq.ft. 220 gal./min./sq.ft
Water flow rate UV resistance	15 gal. '/min.'/sq.ft. 70%	220 gal./min./sq.ft 85 <b>%</b>

Outlet (optional): To allow for safe storm flow bypass without overtopping fence. Placed along fence line to limit water depth to 1 1/2 ft. maximum; crest—1 ft. high maximum; weir width—4 ft. maximum; splash pad—5 ft. wide, 3 ft. long, 1 ft. thick minimum.

### **INSTALLATION** SITE PREPARATION:

strength fabric).

### 1. Plan for the fence to be at least 10 ft. from the toe of the slope to provide a sediment storage area.

2. Provide access to the area if sediment cleanout will be needed.

OUTLET CONSTRUCTION (OPTIONAL) 1. Determine the appropriate location for a reinforced, stabilized bypass flow

- 2. Set the outlet elevation so that water depth cannot exceed 1 1/2 ft. at the lowest point along the fence line. 3. Locate the outlet weir support posts no more than 4 ft. apart, and install
- and water depth no more than  $1 \frac{1}{2}$  ft. anywhere else along the fence.) 4. Excavate the foundation for the outlet splash pad to minims of 1 ft. deep, 5 ft. wide and 5 ft. Iona on level arade 5. Fill the excavated foundation with INDOT CA No. 1 stone, being careful that

a horizontal brace between them. (Weir height should be no more than 1 ft.

the finished surface blends with the surrounding area, allowing no overfall. 6. Stabilize the area around the pad. OUTLET CONSTRUCTION (OPTIONAL)

## 1. Along the entire intended fence line, dig an 8 in. deep flat-bottomed or

- V-shaped trench. 2. On the downslope side of the trench, drive the wood or steel support posts at least 1 ft. into the ground, spacing them no more than 8 ft. apart if if the fence is supported by wire or 6 ft. if extra strength fabric is used without support wire. Adjust spacing, if necessary, to ensure that posts are set at the low points along the fence line. (NOTE: If the fence has preattached posts or stakes, drive them deep enough so the fabric is satisfactory in the trench as described in step 6.)
- 3. Fasten support wire fence to the upslope side of the posts, extending it 8 in. into the trench. 4. Run a continuous length of geotextile fabric in front of the support wire and posts avoiding joints, particularly at low points in the fence line.
- 5. If a joint is necessary, nail the overlap to the nearest post with a lath. 6. Place the bottom 1 ft. of fabric in the 8 in. deep trench, extending the remaining 4 in. toward the upslope side.
- 7. Backfill the trench with compacted earth or gravel. NOTE: If using a pre-packed commercial silt fence rather than constructing

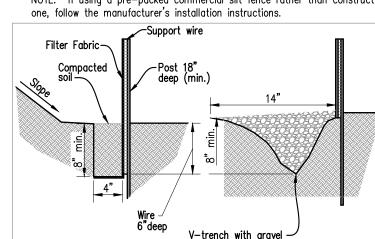


Exhibit 3.74—E. Detailed example of silt fence installation.

- MAINTENANCE \* Inspect the silt fence periodically and after each storm event.
  - replace the affected portion immediately.
  - its lowest point or is causing the fabric to bulge. \* Take care to avoid undermining the fence during clean out. \* After the contributing area has been stabilized, remove the fence and sediment

deposits, bring the disturbed area to grade, and stabilize.

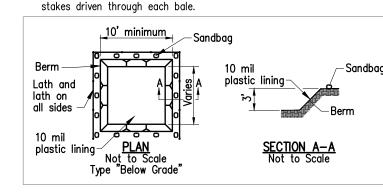
\* If fence fabric tears, starts to decompose or in any way becomes ineffective, \* Remove deposited sediment when it reaches half the height of the fence at

### TEMPORARY CONCRETE WASHOUT AREA

### **REQUIREMENTS** Capacity: Temporary washout facilities shall be constructed above or below grade at the option of the contractor. Temporary washout facilities shall be constructed and maintained in sufficient quality and size to contain all liquid and concrete waste generated by washout operations.

Type: Below grade concrete washout facilities are typical. Above grade facilities are used if excavation is not practical. **Location:** Facilities shall be located a minimum of 50' from storm drain inlets, open drainage facilities, and water courses. Plastic Lining Material: Minimum 10 mil polyethylene sheeting and should be free of holes, tears or other defects.

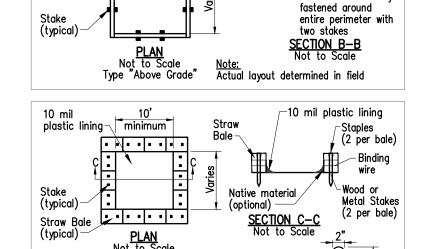
**Straw Bale Dimensions:** Approximately 14i n. x 18 in. x 36 in. **Bale Anchoring:** Two 36-in. long (minimum) steel rebars or 2 x 2-in. hardwood



Two-staked 10' minimum 10 mil

2 x 12 rough

wood frame-



plastic linina

└Wood frame securely

STAPLE DETAIL
Not to Scale

INSTALLATION \* Temporary concrete washout facilities shall be constructed as shown in the above details, and as described below. All temporary washout facilities shall have at minimum 10' width, 3' depth, and sufficient length to contain all liquid and concrete waste generated.

"Below Grade" 1. A pit shall be excavated with a minimum width of 10', depth of 3' and

to contain all liquid and concrete waste generated. 2. The pit should be lined with a minimum 10 mil plastic lining which overhangs the pit rim by 5' in each direction.

with Straw Bales

Actual layout determined in field

3. Sandbags shall be placed on top of the plastic lining at 3' intervals along the rim of the excavated pit. 4. Lath and flagging shall be installed on all sides of the excavated pit to

clearly mark its location. "Above Grade" 1. A wood frame shall be constructed using two 2 x 12 boards staked on edge with a minimum width of 10' and length sufficient to contain all liquid and concrete waste generated.

2. The wood frame shall be securely fastened around the entire perimeter using steel rebar or 2 in. x 2 in. hardwood stakes. 3. The wood farm shall be lined with 10 mil plastic sheeting which shall be attached to the outside face of the wood frame.

Straw bales shall be arranged such that they create a basin with a minimum with Straw Bales width of 10' and length sufficient to contain all liquid and concrete waste 2. The straw bales shall be securely staked using steel rebar or 2 in. x 2 in. hardwood stakes. (two per bale)

3. The basin shall be lined with 10 mil plastic sheeting which is attached to

the straw bales using 4" steel wire staples. (two per bale)

MAINTENANCE \* Temporary concrete washout facilities should be maintained to provide adequate holding capacity with a minimum freeboard of 4 in. for above grade facilities and 12 in. for below grade facilities. Maintaining temporary concrete washout facilities should include removing and disposing of hardened concrete and returning the facilities to a functional condition. Hardened

concrete materials should be removed and disposed of. \* Washout facilities must be cleaned, or new facilities must be constructed ready for use once the washout is 75% full. \* At the conclusion of concrete construction activities the temporary concrete

washout area shall be removed and returned to its original condition.

### PRACTICE 3.11 TEMPORARY SEEDING

### **REQUIREMENTS** Site and seedbed preparation: Graded and fertilizer applied. Plant Species: Selected on the basis of quick germination, growth, and

time of year to be seeded (see Exhibit 3.11-B). **Mulch:** Clean grain, straw, hay, wood, fibre, etc., to protect seedbed and encourage plant growth. Seeding Frequency: As often as possible following construction activity. Daily seeding of rough graded areas when the soil is loose and moist is usually most effective.

# APPLICATION

### SITE PREPARATION:

1. Install practices needed to control erosion, sedimentation, and water runoff, such as temporary and permanent diversions, sediment traps or basins, silt fences, and straw bale dams (practices 3.21, 3.22, 3.72, 3.73, 3.74, and 3.75). 2. Grade the site as specified in the construction plan.

- SEEDBED PREPARATION: 1. Test soil to determine its nutrient levels. (Contact your county SWDC or Cooperative Extension office for assistance and soils information, 2. Fertilize as recommended by the soil test. If testing is not done, consider applying 400-600 lbs./acre of 12-12 analysis, or equivalent,
- 3. Work the fertilizer into the soil 2-4 in. deep with a disk or rake operated across the slope.

## 1. Select a seeding mixture and rate from Exhibit 3.11—B, and plant at depth and on dates shown.

- including available soil testing services.) 2. Apply seed uniformly with a drill or cultipacker—seeder or by broadcasting, and cover to the depth shown in Exhibit 3.11-B. 3. If drilling or broadcasting, firm the seedbed with a roller or
- cultipacker 4. Mulch seeded areas to increase seeding success. Anchor all mulch by crimping or tackifying. Use of netting or erosion control blankets is possible, but may not be cost-effective for

# temporary seeding.

Seed Species*	Rate/acre	Planting Depth	Optimum dates**
Wheat or rye	150 lbs.	1 to 1 1/2 in.	9/15 to 10/30
Spring oats	100 lbs.	1 in.	3/1 to 4/15
Annual ryegrass	40 lbs.	1/4 in.	3/1 to 5/1
, ,		,	8/1 to 9/1
German millet	40 lbs.	1 to 2 in.	<del>- 5'/1 to 6'/1</del>
Cudan arasa	75 lba	1 to 2 in	5/1 to 7/30

\*\* Seeding done outside the optimum dates increases the chances of

# seeding failure.

#### \* Inspect periodically after planting to see that vegetative stands are adequately established; reseed if necessary. \* Check for erosion damage after storm events and repair; reseed and

mulch if necessary. \* Topdress fall seeded wheat or rye seedings with 50 lbs./acre of nitrogen in February or March if nitrogen deficiency is apparent. (Exhibit 3.11—B shows only wheat/rye fall seeded.)



## **SWALE SEEDING**

REQUIREMENTS Site and seedbed preparation: Proposed pond grading, as shown on Grading Plan. Entire area to be swale seeded shall be cleared of all underbrush and debris as to expose topsoil but not to disturb existing trees. Plant Species: Swale Seeding Mix as referred to in the latest JF NEW catalog (574.586.2412) or equal.

**APPLICATION** 1/4 acre permanent grasses as referred to in the latest JF NEW catalog (574.586.2412) or equal.

#### PRACTICE 3.13 DORMANT AND FROST SEEDING

### \* To provide early germination and soil stabilization in the spring. \* To reduce sediment runoff to downstream areas. \* To improve the visual aesthetics of the construction area.

\* To repair previous seedings.

**REQUIREMENTS Site and seedbed preparation:** Graded as needed, and lime and fertilizer applied. **Plant species:** Selected on the basis of soil type, adaptability to the region,

# and planned use of the area (see Exhibits 3.13—B and 3.13—C).

## APPLICATION SITE PREPARATION:

(Exhibit 3.13-B 1. Grade the area to be seeded. 2. Install needed erosion/water runoff control practices, such as temporary

or permanent diversions, sediment basins, silt fences, or straw bale dams (Practices 3.21, 3.22, 3.72, 3.74 or 3.75). FOR DORMANT SEEDING

Site and seedbed preparation and mulching can be done months ahead of actual seeding or if the existing ground cover is adequate, seeding can be directly into it. Seeding dates: Dec. 1—Feb. 28 (north of US 40), Dec. 10—Jan. 15 (south of US 40). 1. Broadcast Fertilizer as recommended by a soil test; or if testing was not

Apply mulch upon completion of grading (Practice 3.15). . Select an appropriate seed species or mixture from Exhibit 3.13—B or Exhibit 3.13-C, and broadcast on top of the mulch and/or into existing ground cover at rate shown.

done consider applying 400-600 lbs./ acre of 12-12-12 analysis or equivalent,

#### FOR FROST SEEDING Seed is broadcast over the prepared seedbed and incorporated into the soil

by natural freeze-thaw action Seeding dates: Feb. 28—Mar. 28 (north of US 40), Feb. 15—Mar. 15 (south of US 40). . Broadcast Fertilizer as recommended by a soil test; or if testing was not done consider applying 400-600 lbs./ acre of 12-12-12 analysis or equivalent,

Apply mulch upon completion of grading (Practice 3.15). Select an appropriate seed species or mixture from Exhibit 3.13-B or Exhibit 3.13—C, and broadcast on top of the mulch and/or into existing ground cover at rate shown. Do not work the seed into the soil

cover at rate si	iowii. Do not w	ork the seed lifto	uie soii.
Exhibit 3.13-B.	Temporary Dormo	int or Frost Seeding	Recommendations.
Seed	species*	Rate per	acre
Whea	t or rye	150lbs	<b>3.</b>
Sprin	g oats	150 lb	S.
Annu	al ryegrass	60 lbs	S.

\* Perennial species may be used as a temporary cover, especially if the area to be seeded will remain idle for more than a year (Practice 3.12).

Exhibit 3.13-C. Permanent Dormant of Frost Seeding Recommendations

This table provides several seeding options. Additional seed species and mixtures are available commercially. When selecting a mixture, consider site conditions, including soil properties, slope aspect and the tolerance of each species to shade and droughtiness. Optimum soil pH Rate per acre Seed species OPEN AND DISTRIBUTED AREAS (REMAINING IDLE MORE THAN 1 YR). 1. Perennial ryegrass 50 to 75 lbs. 5.6 to 7.0 + white or ladino clover\* 1 1/2 to 3 lbs. 30 lbs. 5.5 to 7.5 2. Kentucky bluegrass

T emocal bromograco		
+ switchgrass + timothy + perennial ryegrass + white or ladino clover* 3. Perennial ryegrass	5 lbs. 6 lbs. 15 lbs. 1 1/2 to 3 lbs. 22 to 45 lbs.	5.6 to 7.0
+ prairie switchgrass 4. Prarie switch grass + white or ladino clover*	22 to 45 lbs. 50 to 75 lbs. 1 1/2 to 3 lbs.	5.5 to 7.5
STEEP BANKS AND CUTS, LOW	•	(NOT MOWED).
1. Smooth bromegrass	15 to 30 lbs.	<del>3.3 to 7.3</del>
Prarie switch grass     + white or ladino clover*	50 to 75 lbs. 1 1/2 to 3 lbs.	5.5 to 7.5
3. Prarie switch grass + red clover*	50 to 75 lbs. 15 to 30 lbs.	5.5 to 7.5
(Recommended north of US 40. 4. Orchardgrass + red clover* + ladino clover*	30 to 45 lbs. 15 to 30 lbs. 1 1/2 to 3 lbs.	5.6 to 7.0
The state of the s		
-+ prairie cuitehgrace	30 to 45 lbs.	5.6 to 7.0
+ prairie switchgrace - (Recommended north of US 40.	30 to 45 lbs.	5.5 to 7.0
LAWNS AND HIGH MAINTENANC  1. Bluegrass 2. Perennial ryegrass (turf-type)	160 to 210 lbs. 70 to 90 lbs.	5.5 to 7.5 5.6 to 7.0
1. Bluegrass	160 to 210 lbs. 70 to 90 lbs. 105 to 135 lbs.	
<ol> <li>Bluegrass</li> <li>Perennial ryegrass (turf-type)         <ul> <li>bluegrass</li> </ul> </li> <li>Prarie switch grass (turf-type)             <ul> <li>bluegrass</li> </ul> </li> <li>CHANNELS AND AREAS OF COMMENTALISM</li> <li>Parennial ryegrass</li> </ol>	160 to 210 lbs. 70 to 90 lbs. 105 to 135 lbs. 195 to 250 lbs. 30 to 45 lbs.  NCENTRATED FLOW 150 to 225 lbs.	5.6 to 7.0
<ol> <li>Bluegrass</li> <li>Perennial ryegrass (turf-type)         <ul> <li>bluegrass</li> </ul> </li> <li>Prarie switch grass (turf-type)             <ul> <li>bluegrass</li> </ul> </li> <li>CHANNELS AND AREAS OF CONTINUES</li> </ol>	160 to 210 lbs. 70 to 90 lbs. 105 to 135 lbs. 195 to 250 lbs. 30 to 45 lbs.	5.6 to 7.0 5.6 to 7.5

+ kentucky bluegrass 22 to 30 lbs \* For best results: (a) legume seed should be inoculated; (b) seeding mixtures containing NOTE: If using mixtures other than those listed here, increase the seeing rate by 50% over the conventional rate.

1 1/2 to 3 lbs.

22 to 30 lbs.

150 to 225 lbs.

5.5 to 7.5

**MAINTENANCE** \* Apply 200-300 lbs./acre of 12-12-12 or equivalent fertilizer between Apr. 15 and May 10 or during periods of vigorous growth. \* Re—seed and mulch any areas that have inadequate cover by mid to late Apr. For best results, re-seed within the recommended dates shown in Practices 3.11 for temporary seeding or 3.12 for permanent seeding.

+ white or ladino clover\*

+ perennial bluegrass

4. Prarie switch grass



### PRACTICE 3.12 PERMANENT SEEDING

**REQUIREMENTS** Site and seedbed preparation: Graded, and lime and fertilizer applied. Plant Species: Selected on the basis of soil type, soil pH, region of the state, time of year, and planned use of the area to be seeded (see

Mulch: Clean grain, straw, hay, wood, fibre, etc., to protect seedbed and encourage plant growth. The mulch may need to be anchored to reduce removal by wind or water, or erosion control blankets may be considered.

# **APPLICATION** Permanently seed all final grade areas (e.g., landscape berms, drainage swales,

(Exhibit 3.12-B, erosion control structures, etc.) as each is completed and all areas where additional work is not scheduled for a period of more than a year. SITE PREPARATION:

> 1. Install practices needed to control erosion, sedimentation, and runoff prior to seeding. These include temporary and permanent diversions, sediment traps and basins, silt fences, and straw bale dams (Practices 3.21, 3.22, 3.72, 3.73, 3.74, and 3.75).

#### 2. Grade the site and fill in depressions that can collect water. 3. Add topsoil to achieve needed depth for establishment of vegetation (Practice 3.02).

#### SEEDBED PREPARATION: 1. Test soil to determine pH and nutrient levels. (Contact your county SWDC or Cooperative Extension office for assistance and soils information,

- including available soil testing services.) 2. If soil pH is unsuitable for the species to be seeded, apply lime according to test recommendations.
- 3. Fertilize as recommended by the soil test. If testing was not done, consider applying 400-600 lbs./acre of 12-12-12 analysis, or
- eauivalent, fertilizer. 4. Till the soil to obtain a uniform seedbed, working the fertilizer and lime into the soil 2-4 in. deep with a disk or rake operated across the slope (Exhibit 3.12-B).

Optimum seeding dates are Mar. 1—May 10 and Aug. 10—Sept. 30. Permanent seeding done between May 10 and Aug. 10 may need to be irrigated. As an alternative, use temporary seeding (Practice 3.11) until the preferred date

- for permanent seeding. 1. Select a seeding mixture and rate from Exhibit 3.12—C, based on site conditions, soil pH, intended land use, and expected level of
- maintenance. 2. Apply seed uniformly with a drill or cultipacker—seeder (Exhibit 3.12-D) or by broadcasting, and cover to a depth of 1/4-1/2 in.
- 4. Mulch all seeded areas (Practice 3.15). Consider using erosion blankets on sloping areas (Practice 3.17). (NOTE: If seeding is done with a hydroseeder, fertilizer and mulch can be applied

3. If drilling or broadcasting, firm the seedbed with a roller or

#### with the seed in a slurry mixture.) Exhibit 3.12-C. Permanent Seeding Recommendations This table provides several seeding options. Additional seed species and mixtures are available commercially. When selecting a mixture, consider site conditions, including soil properties (e.g., soil pH and drainage), slope aspect and the tolerance of each species to shade and droughtiness. Seed species and mixtures Rate per acre Optimum soil pH OPEN AND DISTURBED AREAS (REMAINING IDLE MORE THAN 1 YR.) 35 to 50 lbs. 5.6 to 7.0 Perennial ryegrass + white or ladino clover\* 1 to 2 lbs.

5.5 to 7.5 2. Kentucky bluegrass 20 lbs. + switchgrass 3 lbs. 4 lbs. + timothy + perennial ryegrass + white or ladino clover\* 1 to 2 lbs. Perennial ryegrass 15 to 30 lbs. 5.6 to 7.0 + prarie switch grass 15 to 30 lbs. 4. Prarie switch grass 35 to 50 lbs. 5.5 to 7.5

+ ladino or white clover\* 1 to 2 lbs. Γ MOWED)

STEEP BANKS AND CUTS, LOW	MAINTENANCE AREAS	(NOT MOWED)
T. Smooth bromograss	20 to 30 lbs.	0.0 10 7.0
2. Prarie switch grass	35 to 50 lbs.	5.5 to 7.5
+ white or ladino clover*	1 to 2 lbs. 35 to 50 lbs.	5.5 to 7.5
3. Prarie switch grass + red clover*	10 to 20 lbs.	3.3 10 7.3
(Recommended north of US 40)		
4. Orchardgrass	20 to 30 lbs.	5.6 to 7.0
+ red clover*	10 to 20 lbs.	
+ ladino clover*	1 to 2 lbs.	
5 Crownwolohit	10 to 12 lbs	56 to 7.0_

LAWNS AND HIGH MAINTENANCE AREAS 105 to 150 lbs. 2. Perennial ryegrass (turf-type) 45 to 60 lbs. 5.6 to 7.0 70 to 90 lbs. 3. Prarie switch grass(turf-type)130 to 107 lbs. + bluegrass 20 to 30 lbs.

CHANNELS AND AREAS OF CONCENTRATED FLOW 5.6 to 7.0 100 to 150 lbs. Perennial ryegrass + white or ladino clover\* 1 to 2 lbs. 5.5 to 7.5 2. Kentucky bluegrass 20 lbs. + switchgrass 3 lbs. 4 lbs. + timothy + perennial ryegrass 10 lbs. 1 to 2 lbs. + white or ladino clover\* 5.5 to 7.5 Prarie switch grass 100 to 150 lbs. + ladino or white clover\* 1 to 2 lbs. 5.5 to 7.5 4. Prarie switch grass 100 to 150 lbs.

+ Perennial ryegrass

+ Kentucky bluegrass 15 to 20 lbs. \* For best results: (a) legume seed should be inoculated; (b) seeding mixtures containing legumes should preferably be spring-seeded, although the grass may be fall—seeded and the legume frost—seeded (Practice 3.13); and (c) if legumes are fall—seeded, do so in early

15 to 20 lbs.

NOTE: An oat or wheat companion or nurse crop may be used with any of the above permanent seeding mixtures. If so, it is best to seed during the fall seeding period, especially after Sept. 15, and at the following rates: spring oats—1.4 to 3/4 bu./acre; wheat-no more than 1/2 bu./acre.

- MAINTENANCE \* Inspect periodically, especially after storm events, until the stand is successfully established. (Characteristics of a successful stand include: vigorous dark green or bluish-green seedlings; uniform density with nurse plants, legumes, and grasses well inter-mixed; green leaves; and the perennials remaining green throughout the summer, at least at the
  - \* Plan to add fertilizer the following growing season according to soil test

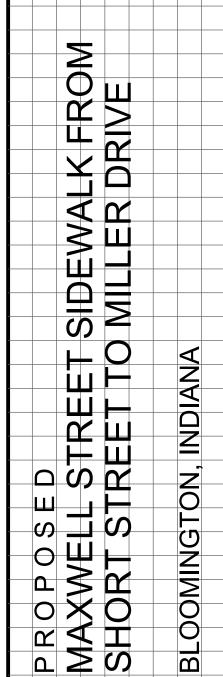
soil fertility, moisture condition, and mulching; then repair the affected

- recommendations. \* Repair damaged, bare or sparse areas by filling any gullies, re-fertilizing, over- or re-seeding, and mulching. \* If plant cover is sparse or patchy, review the plant materials chosen,
- area either by over—seeding or by re—seeding and mulching after re-preparing the seedbed. \* If vegetation fails to grow, consider soil testing to determine acidity or nutrient deficiency problems. (Contact your SWCD or Cooperative Extension
- office for assistance.) \* If additional fertilization is needed to get a satisfactory stand, do so according to soil test recommendations.

## NOTE TO CONTRACTOR

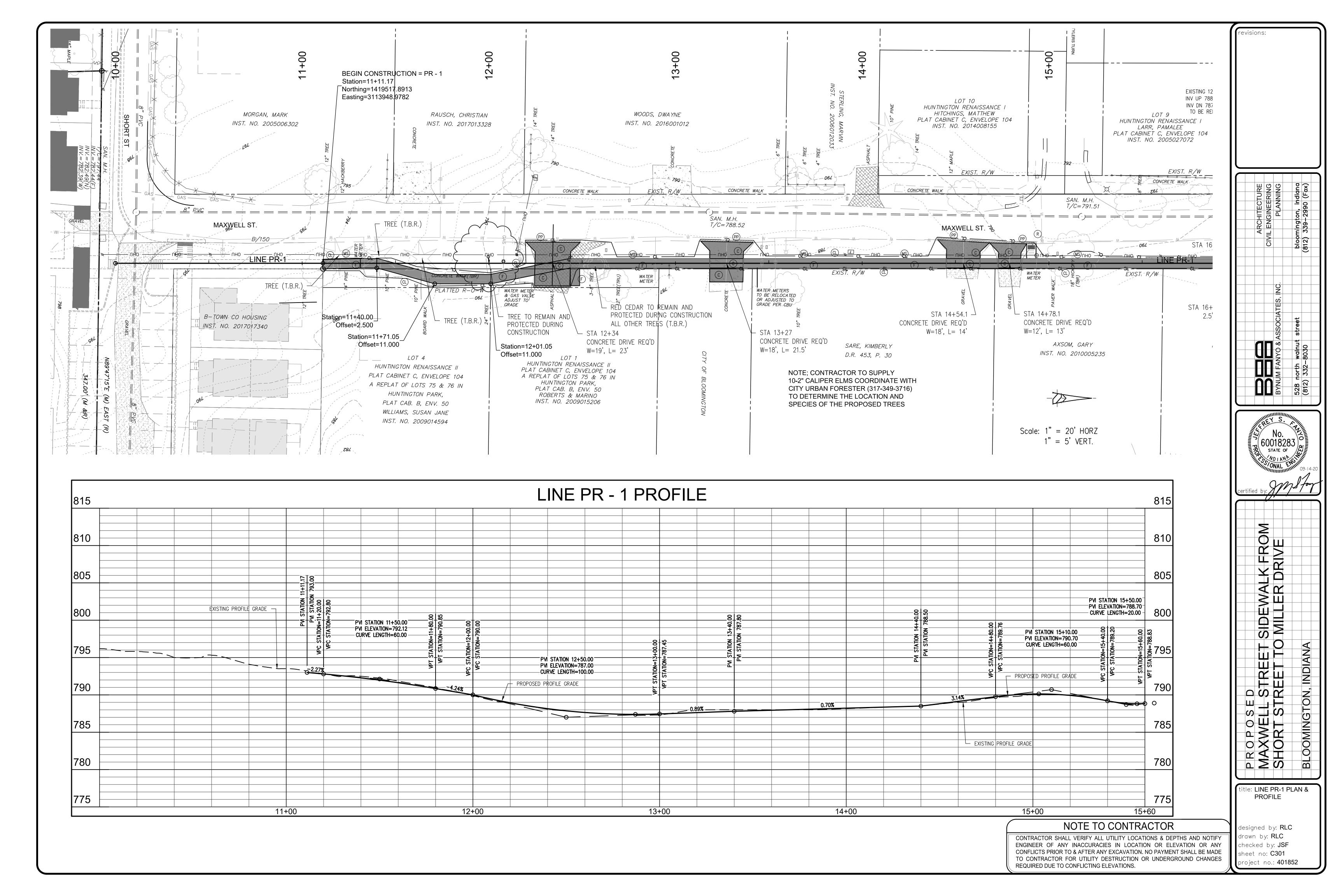
CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION, NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

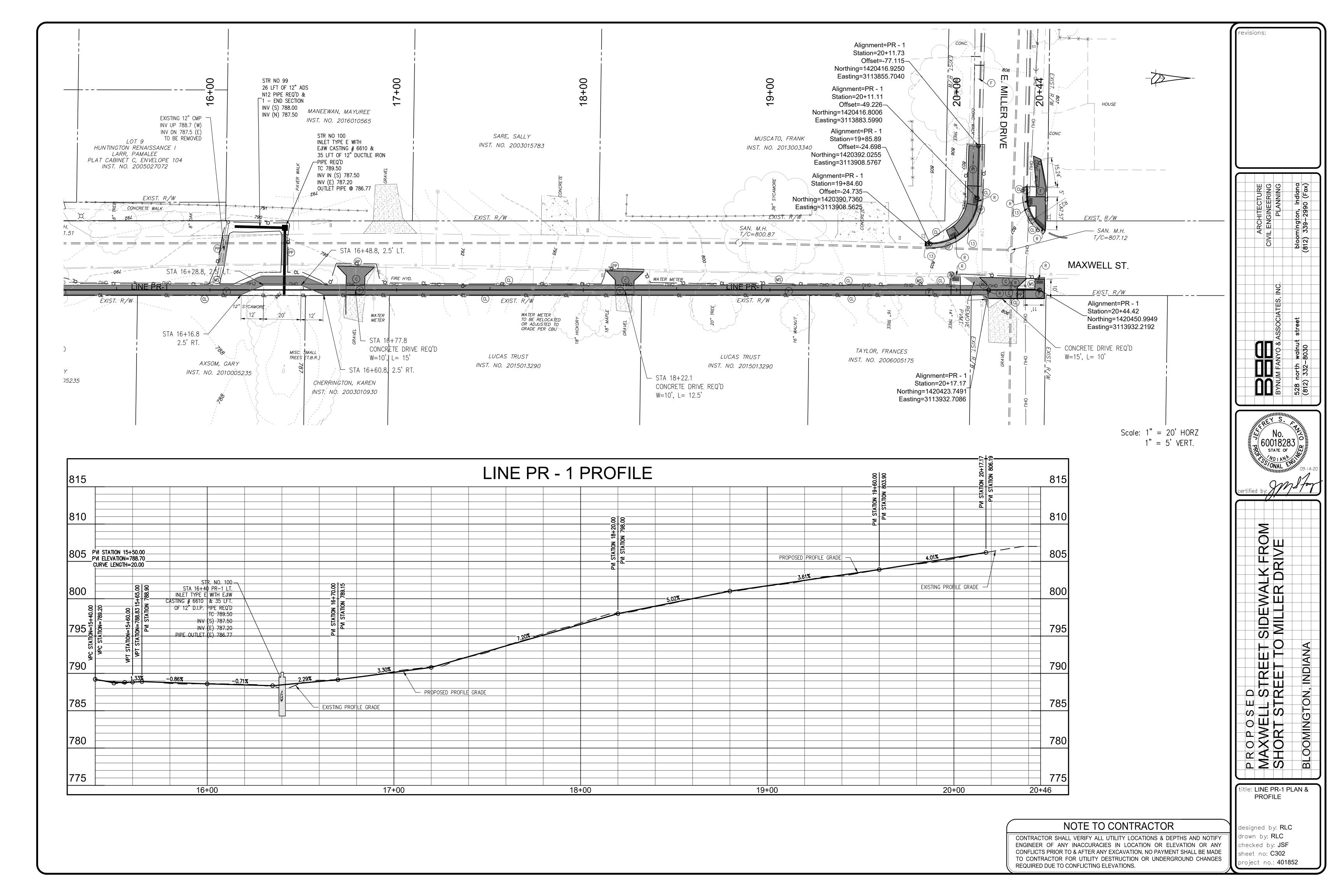


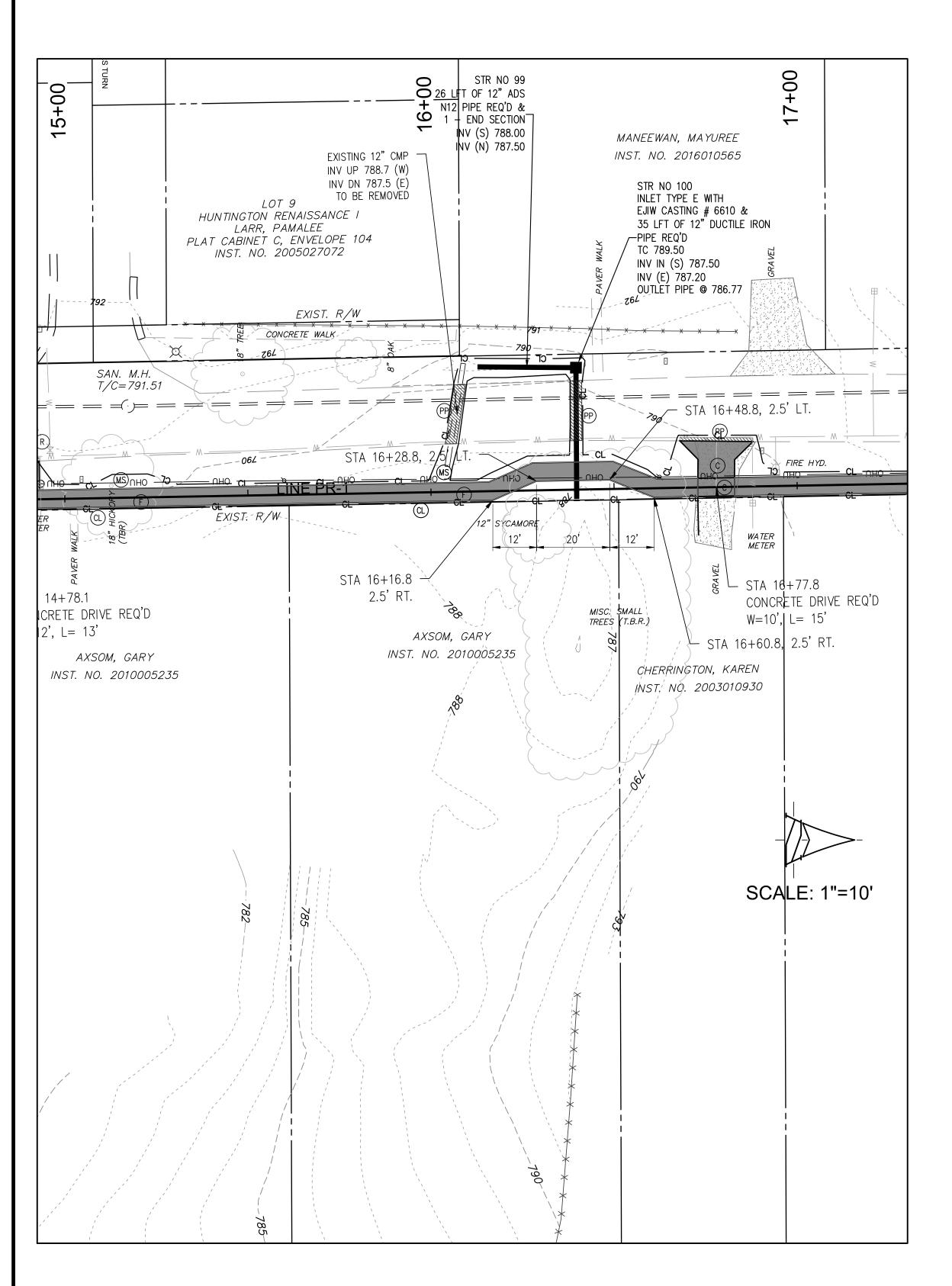


tle: EROSION CONTROL DETAILS

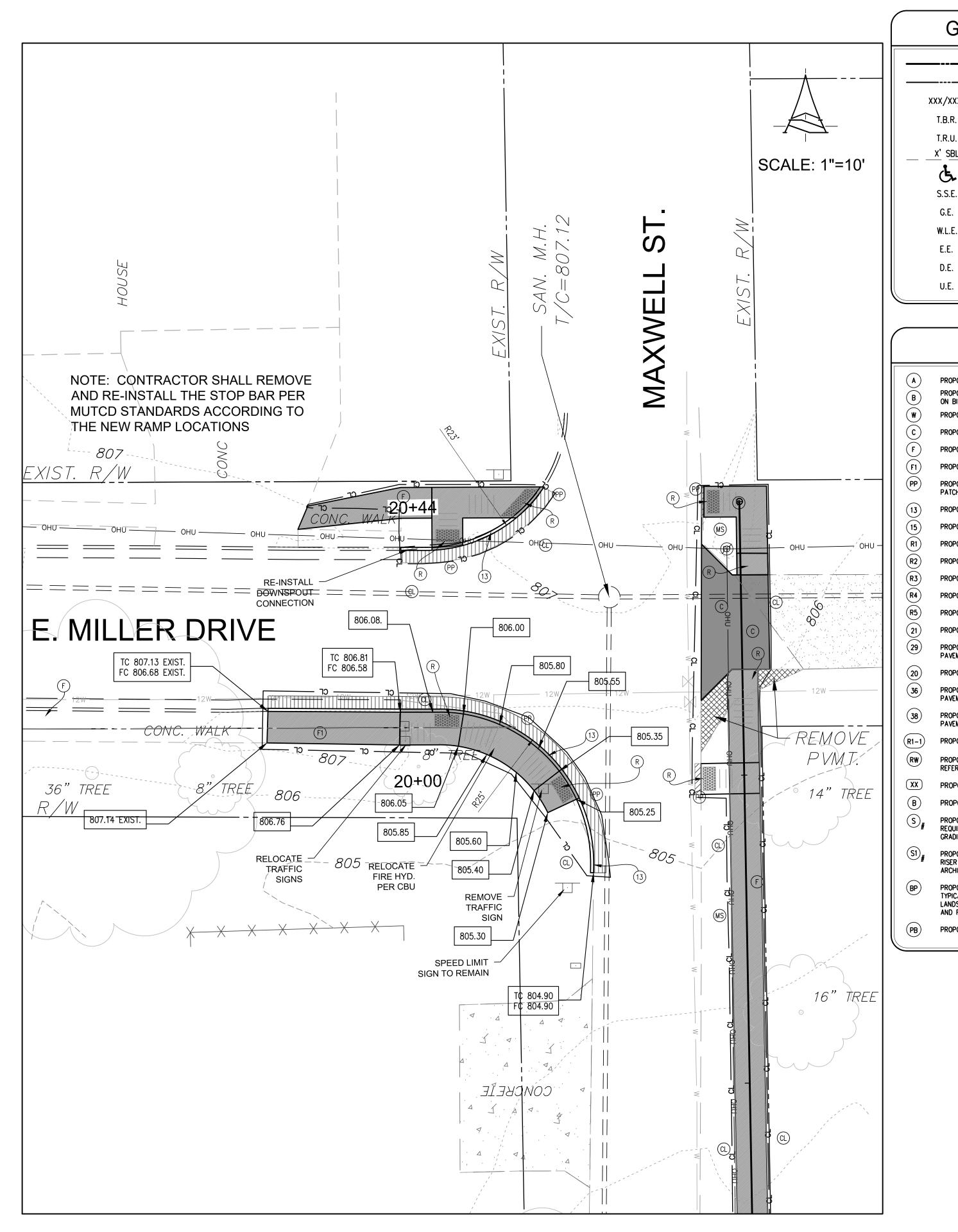
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DRAINAGE IMPROVEMENT DETAIL STA 16+00 TO STA 16+60 SCALE 1" = 20'



INTERSECTION GRADING DETAIL MAXWELL DRIVE AND MILLER DRIVE SCALE 1"=10'

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GENERAL LEGEND

DEED BOOK AND PAGE

TO REMAIN UNDISTURBED

SANITARY SEWER EASEMENT

WATER LINE EASEMENT

ELECTRIC EASEMENT

DRAINAGE EASEMENT

UTILITY EASEMENT

SITE LEGEND

PROPOSED ALL-PURPOSE TRAIL BITUMINOUS PAVING

PROPOSED CITY OF BLOOMINGTON STANDARD ROAD PAVEMENT

PROPOSED WEDGE AND LEVELING USING 110# BITUMINOUS SURFACE #11

PROPOSED ROAD BITUMINOUS PAVING

ON BITUMINOUS BINDER # 8 OR 9

PROPOSED CONCRETE SIDEWALK

PROPOSED 6 IN STANDING CURB

PROPOSED REINFORCED CONCRETE PAVING

PROPOSED MONOLITHIC CURB AND SIDEWALK

PROPOSED 6 IN CONCRETE CURB AND GUTTER

PROPOSED SIDEWALK ACCESSIBLE RAMP TYPE H

PAVEMENT MARKING - 24 IN. SPACING

PROPOSED BOLLARD

PROPOSED INDOT 30 IN. X 30 IN. ROAD STOP SIGN

PROPOSED NUMBER OF PARKING SPACES PER LOT

PROPOSED CONCRETE STAIRS SPACED 4 FT. O.C. MIN. AS REQUIRED, STEP HEIGHT VARIES, 7 IN. MAXIMUM, REFER TO GRADING PLAN FOR MORE INFORMATION

PROPOSED WOOD STAIRS TO 2ND FLOOR AS REQUIRED, RISER HEIGHT VARIES, REFER TO GRADING AND

PROPOSED BIKE PARKING AREA WITH CONCRETE PAD, REFER TO TYPICAL SIDEWALK CONCRETE DETAIL - REFER ALSO TO LANDSCAPE AND ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL

PROPOSED CONCRETE PARKING BUMPER BLOCK, 7 FT. LONG

ARCHITECTURAL PLANS FOR MORE INFORMATION

PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP TYPE G

PROPOSED SOLID WHITE 4 IN. WIDE PAINTED PAVEMENT MARKING

PROPOSED SOLID BLUE 4 IN. WIDE PAINTED ADA PARKING MARKING

PROPOSED SOLID THERMOPLASTIC WHITE 24 IN. WIDE STOP BAR

PROPOSED REINFORCED CONCRETE RETAINING WALL AND RAILING - REFER TO STRUCTURAL DRAWINGS FOR MORE DETAILS

PROPOSED SOLID WHITE 12 IN. WIDE PAINTED CROSS HATCH PAVEMENT MARKING - SPACED AT 5 FT. O.C. IN LIMITS SHOWN

PROPOSED ACCESSIBLE PARKING SPACE

TO BE REMOVED

SETBACK LINE

GAS EASEMENT

----- PROPERTY LINE

T.B.R.

T.R.U.

G.E.

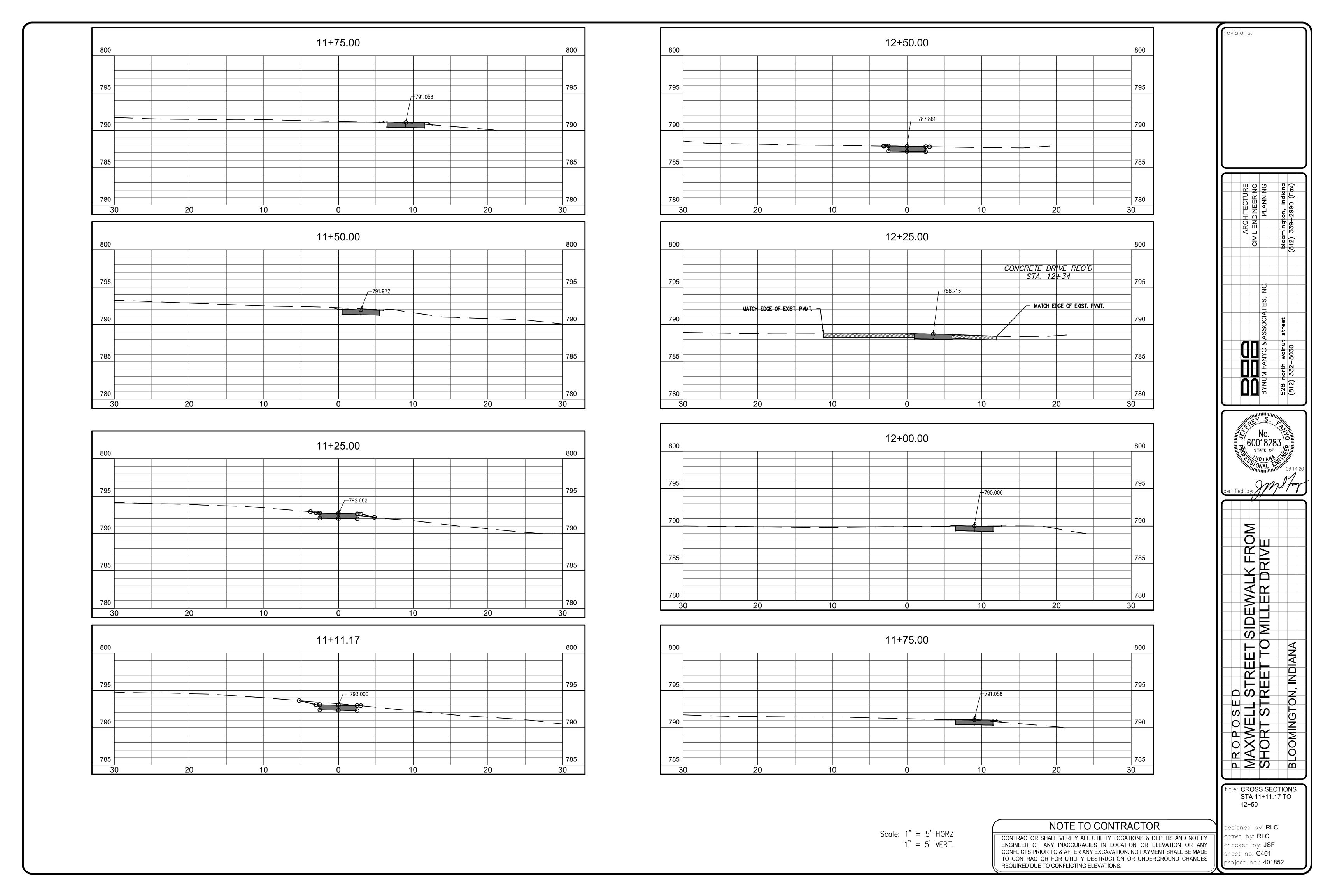
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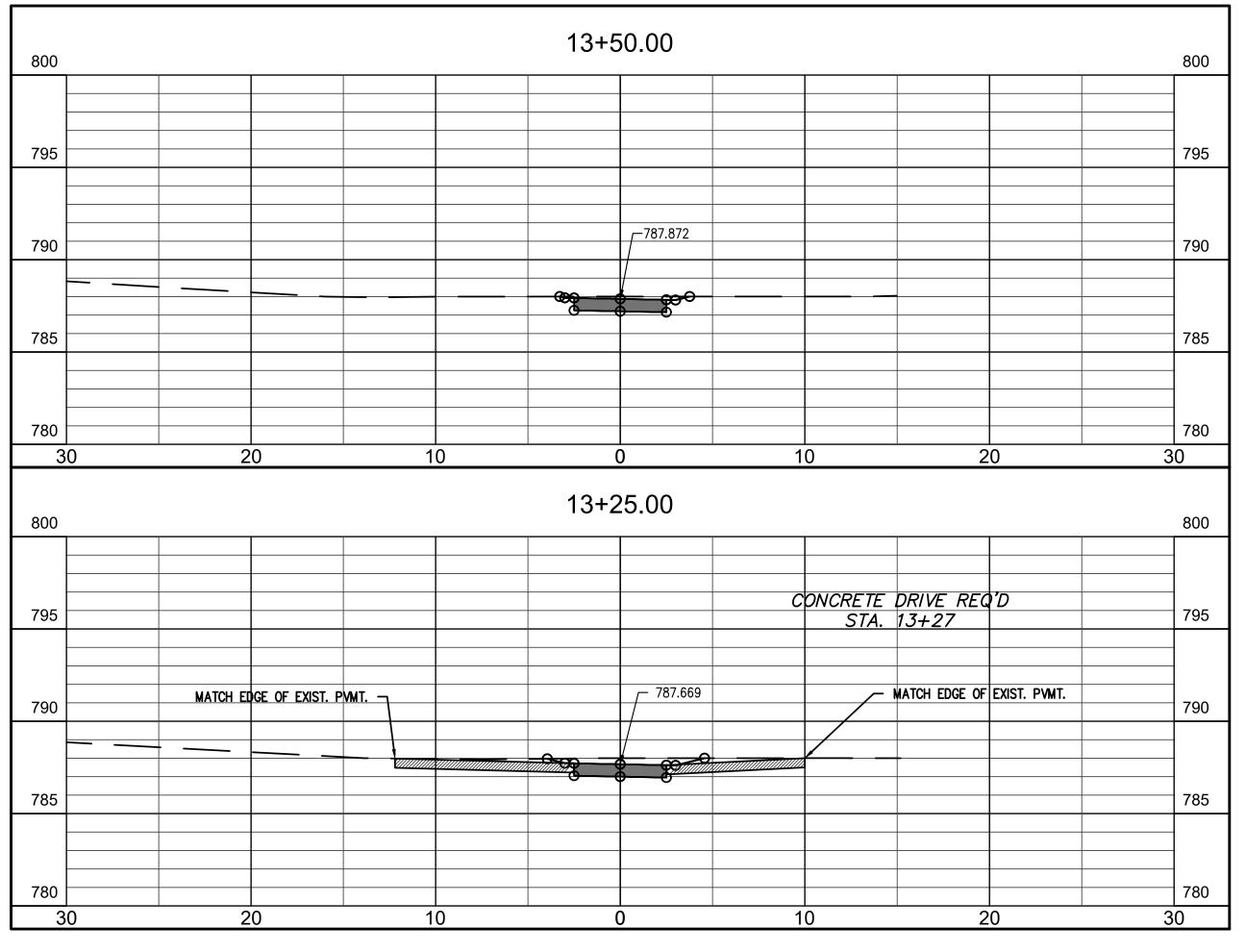
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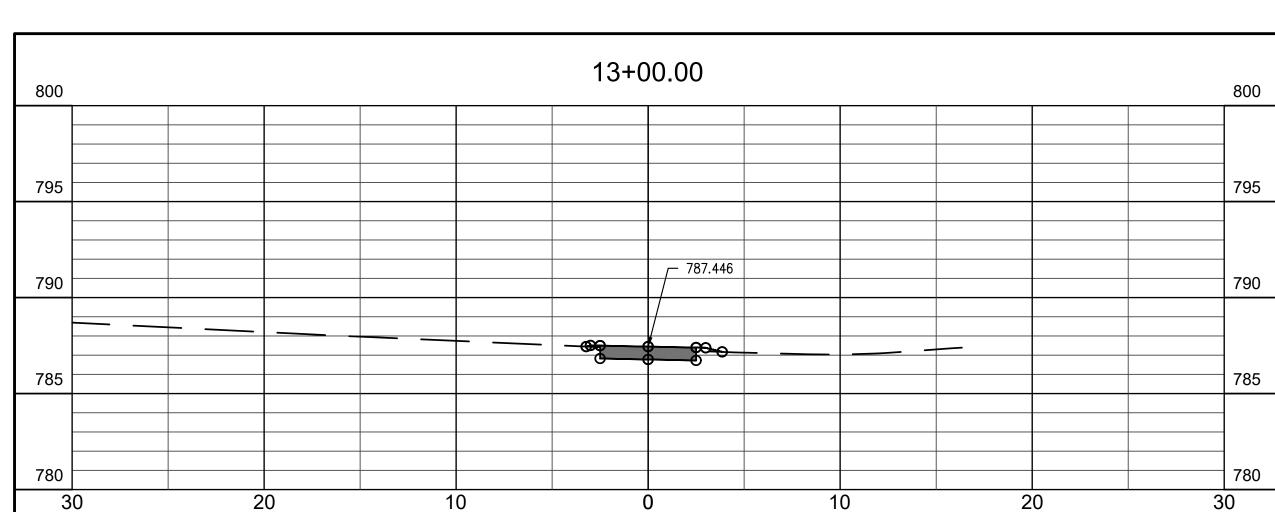
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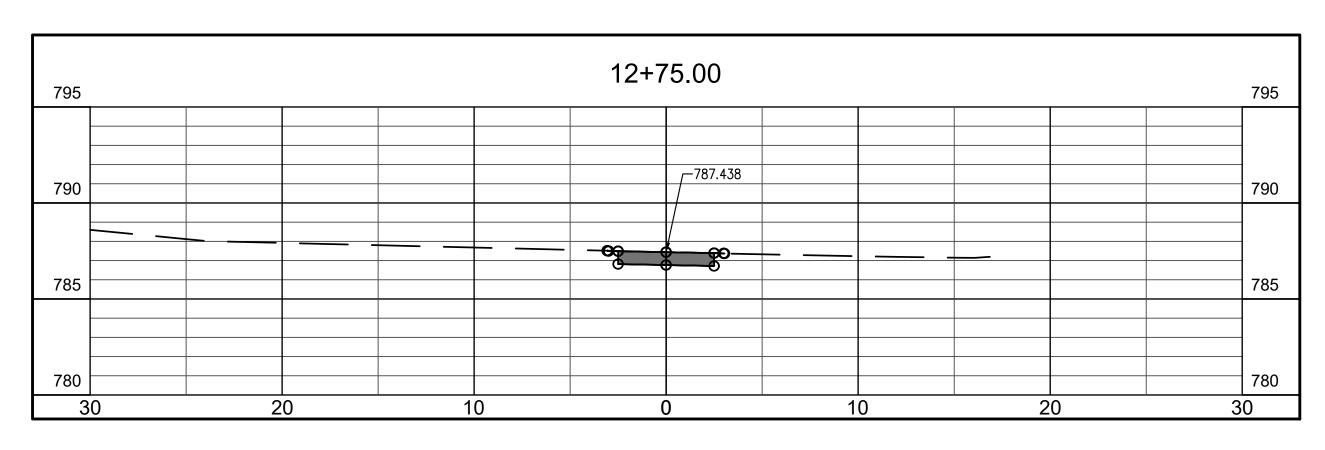
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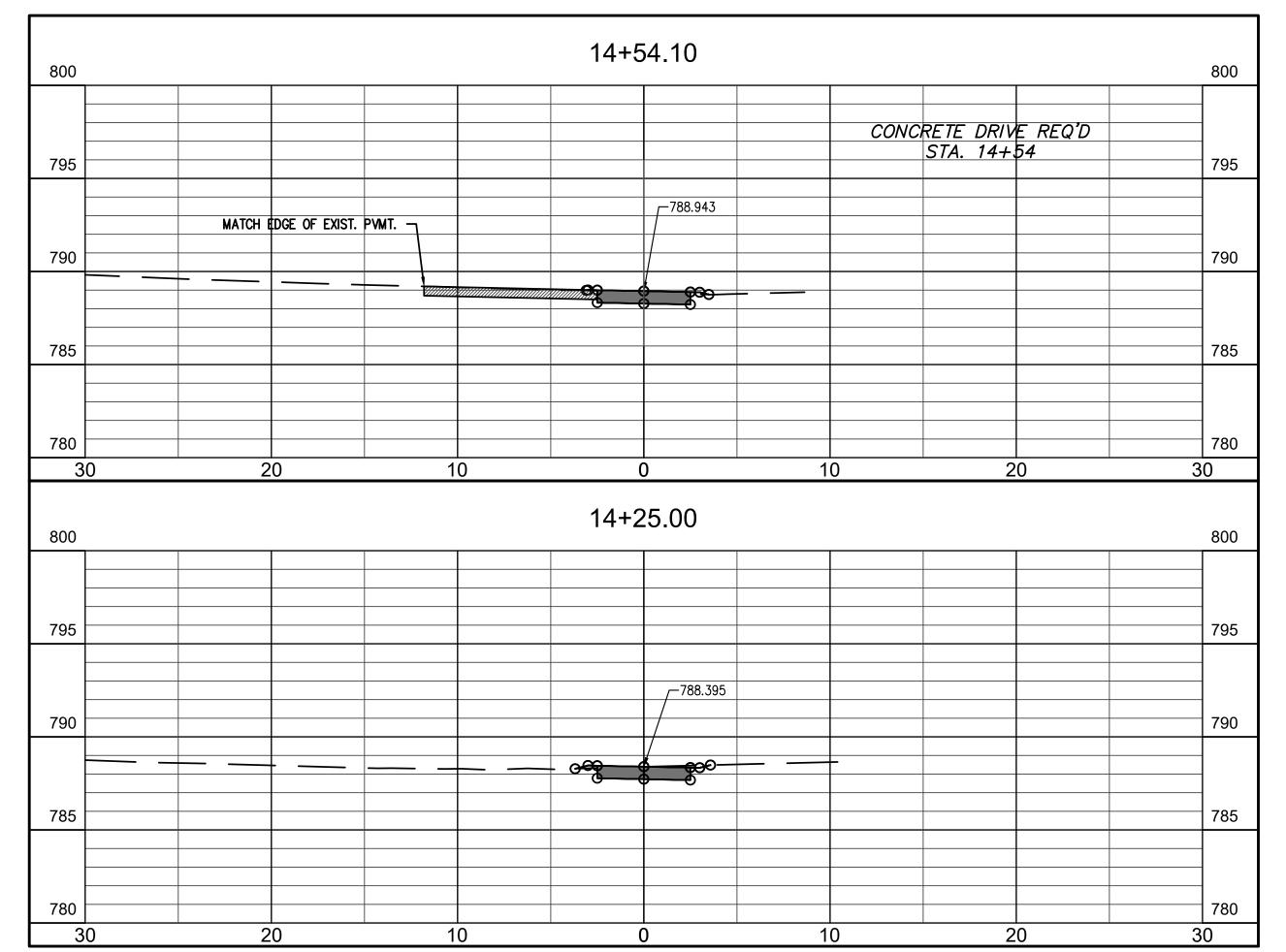
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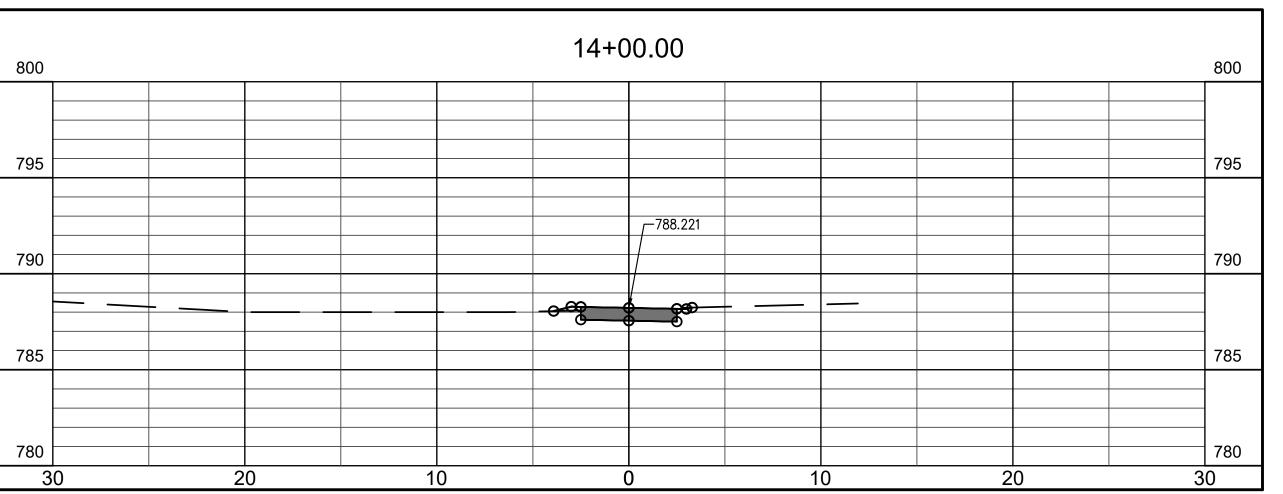


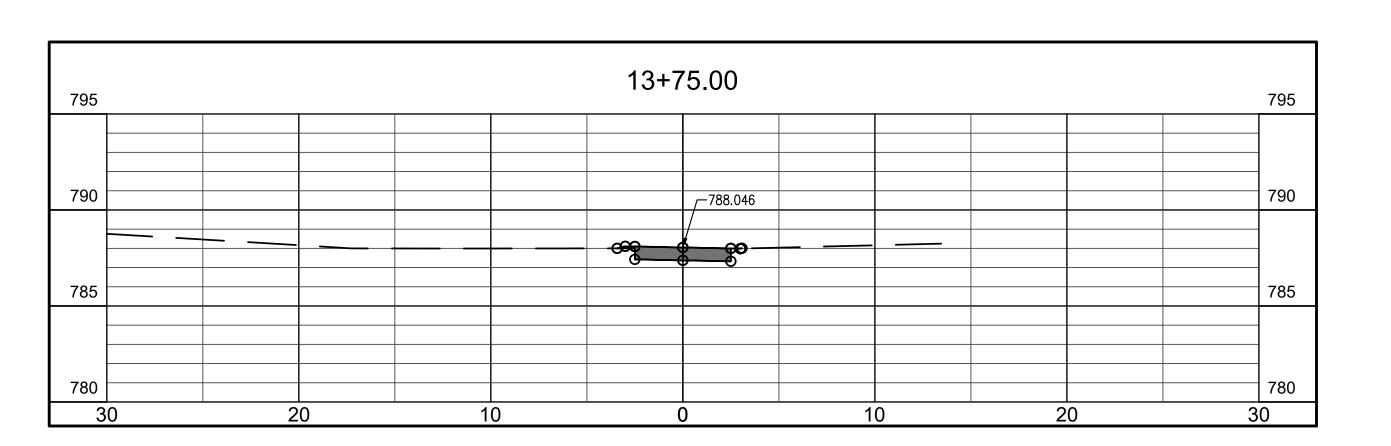








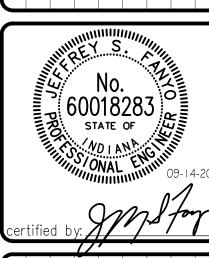


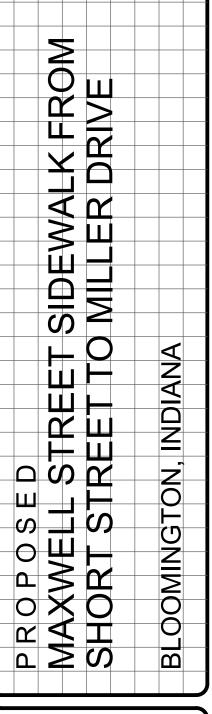


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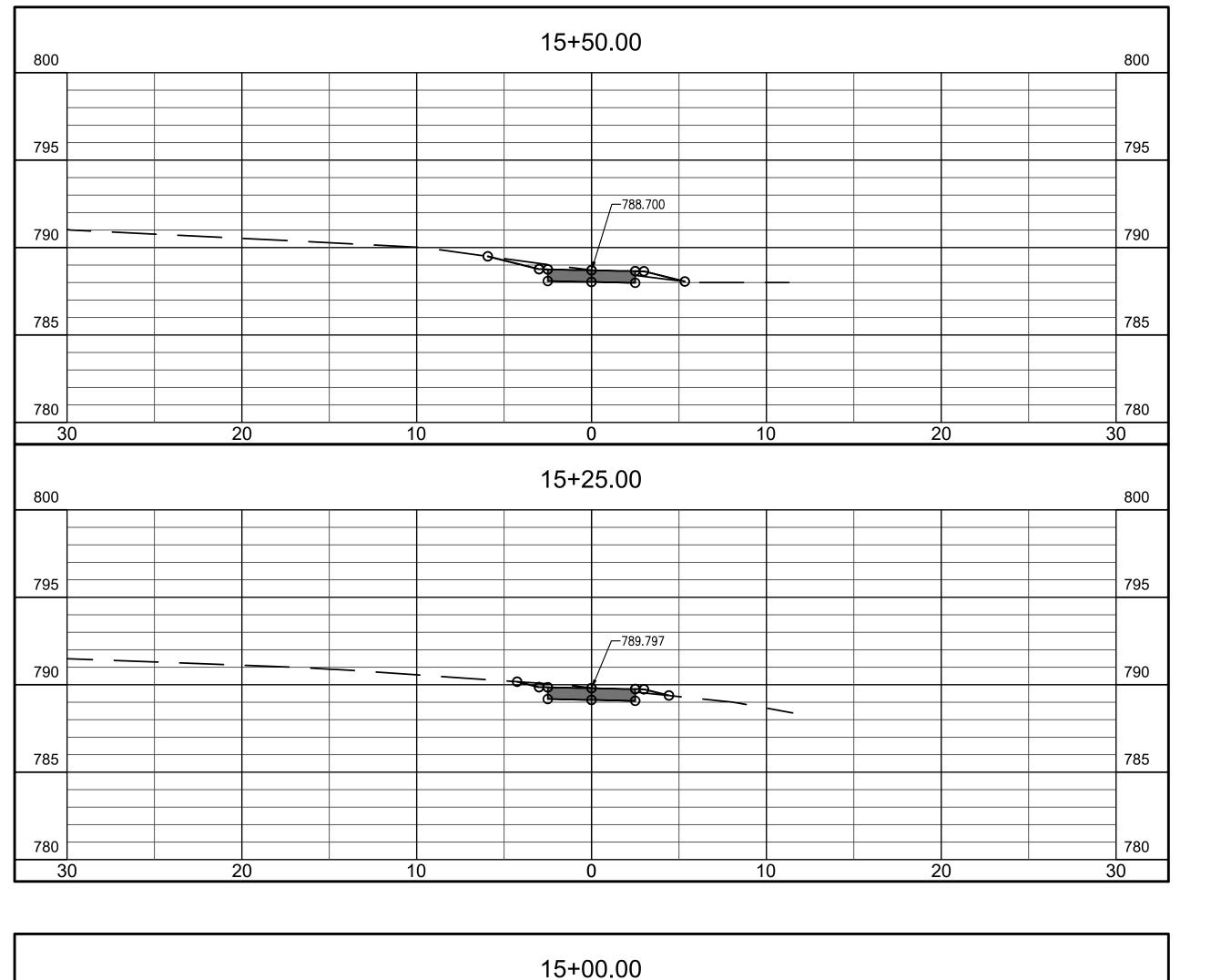
 BYNUM FANYO & ASSOCIATES, INC.	CIVIL ENGINEERING PLANNING
528 north walnut street	bloomington, indian
(812) 332–8030	(812) 339-2990 (Fax

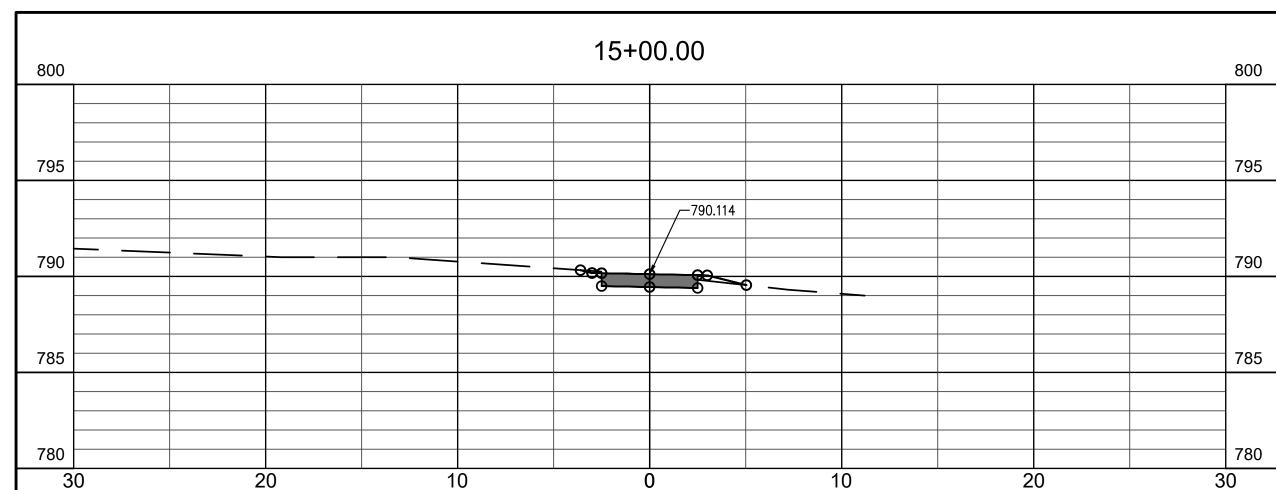


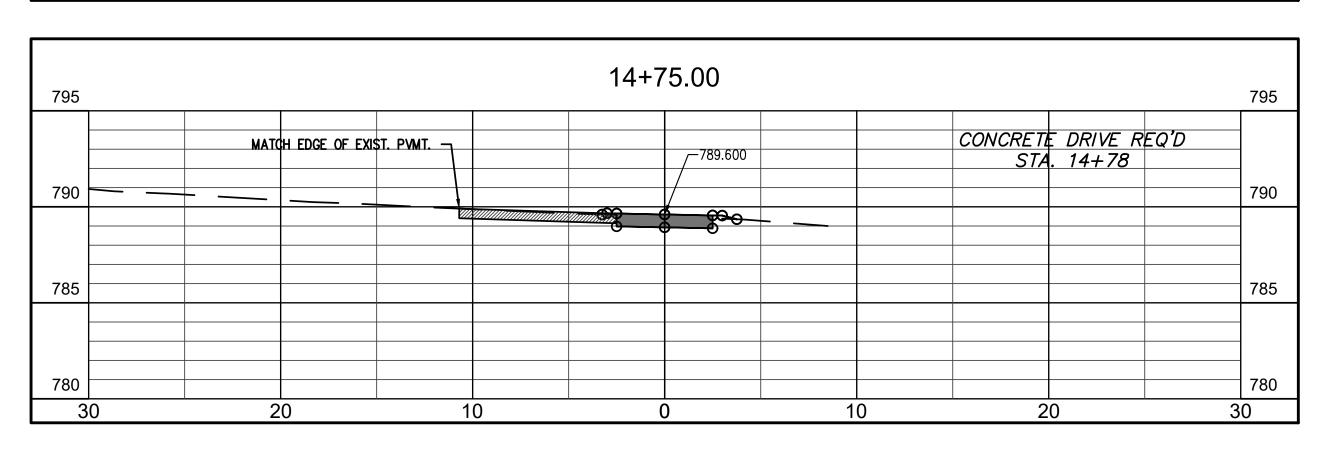


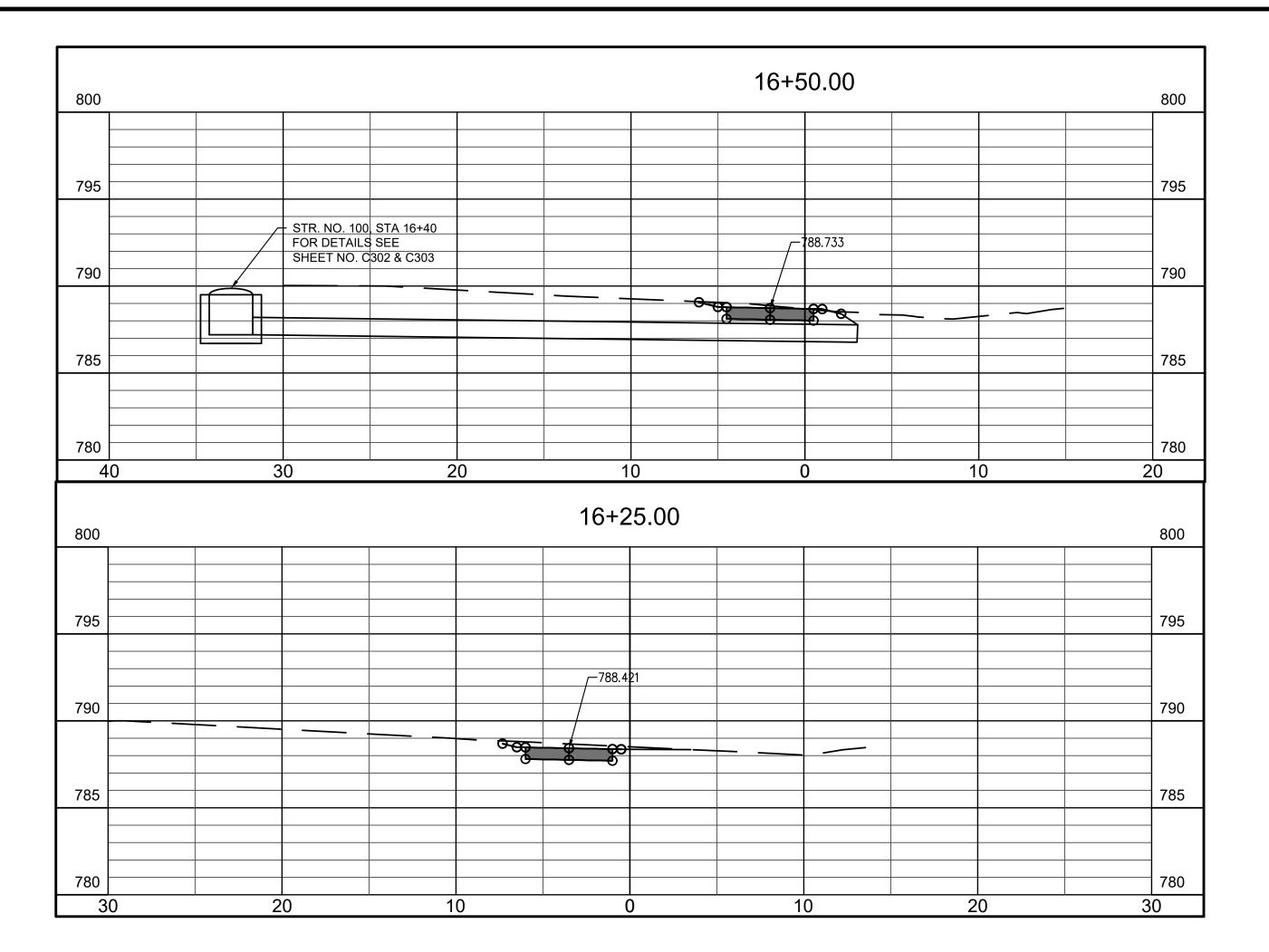
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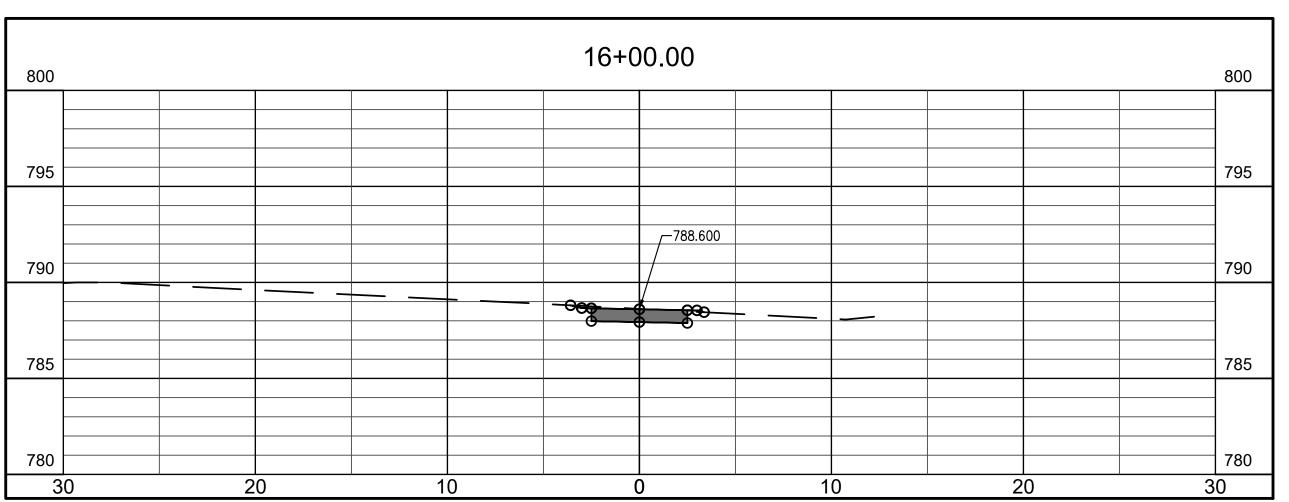
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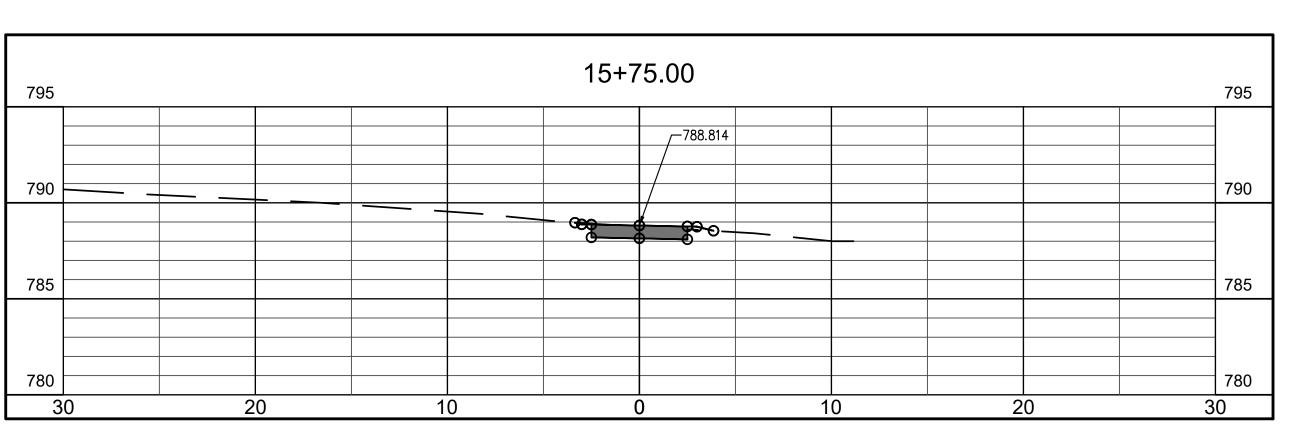






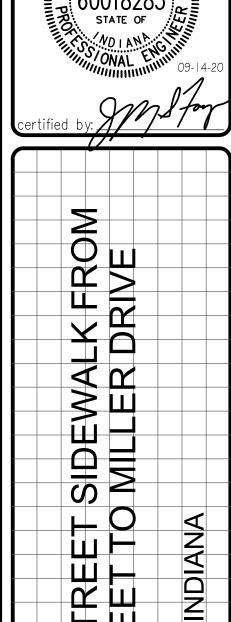






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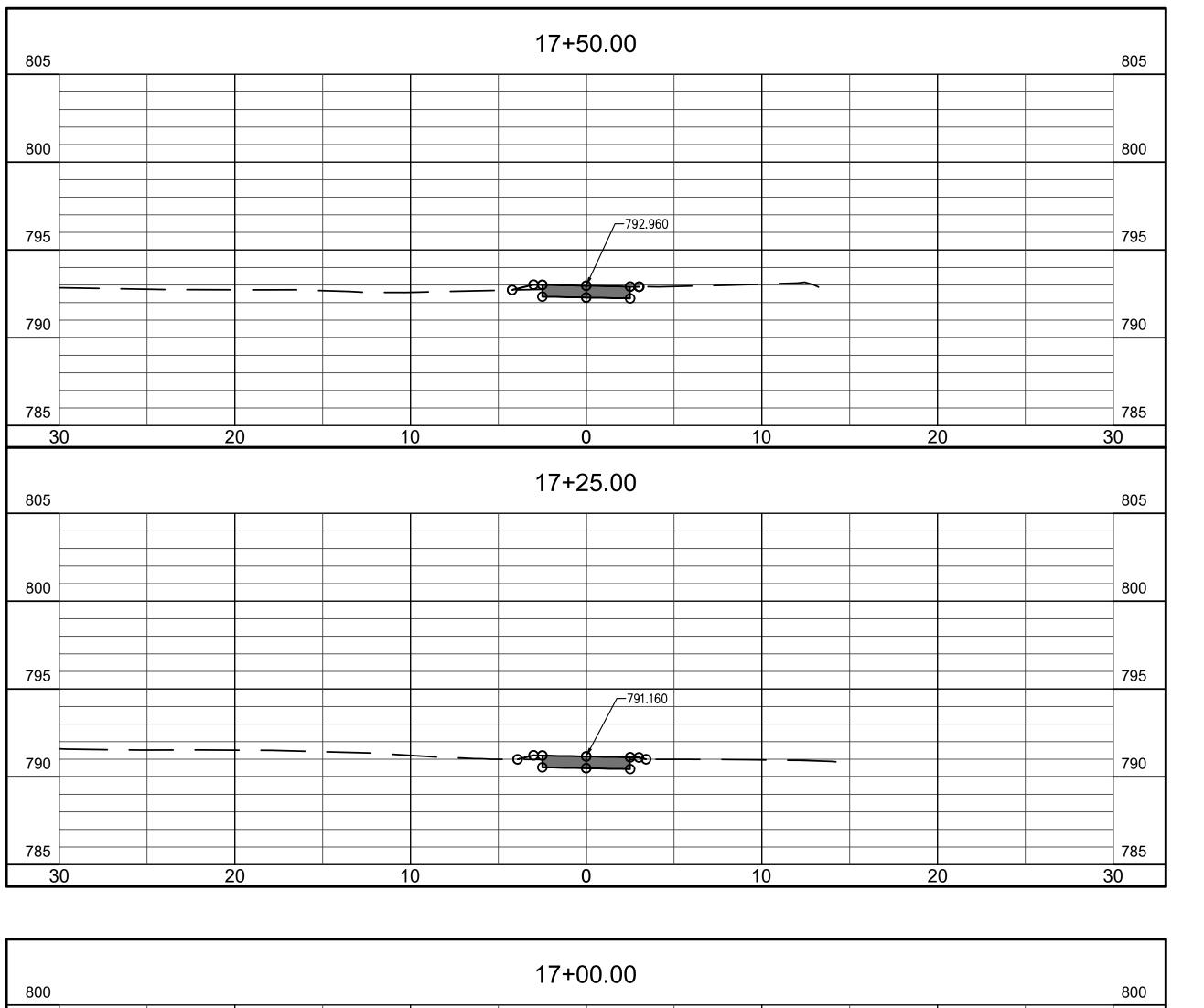
(812) 339-2990 (Fax)	(812) 332–8030
bloomington, indiand	528 north walnut street
PLANNING	BYNUM FANYO & ASSOCIATES, INC.
CIVIL ENGINEERING	
ARCHITECTURE	

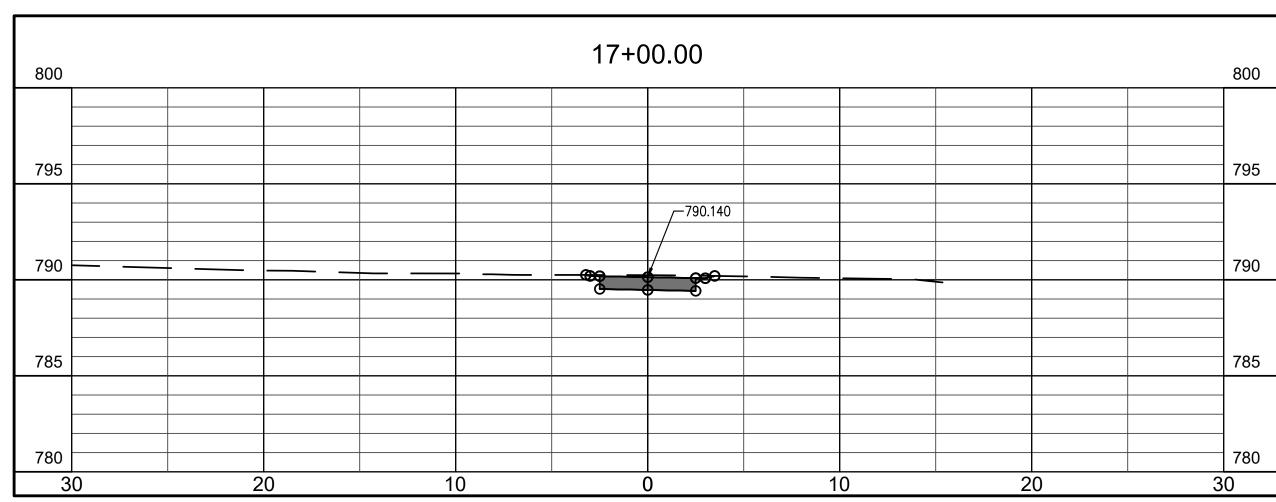


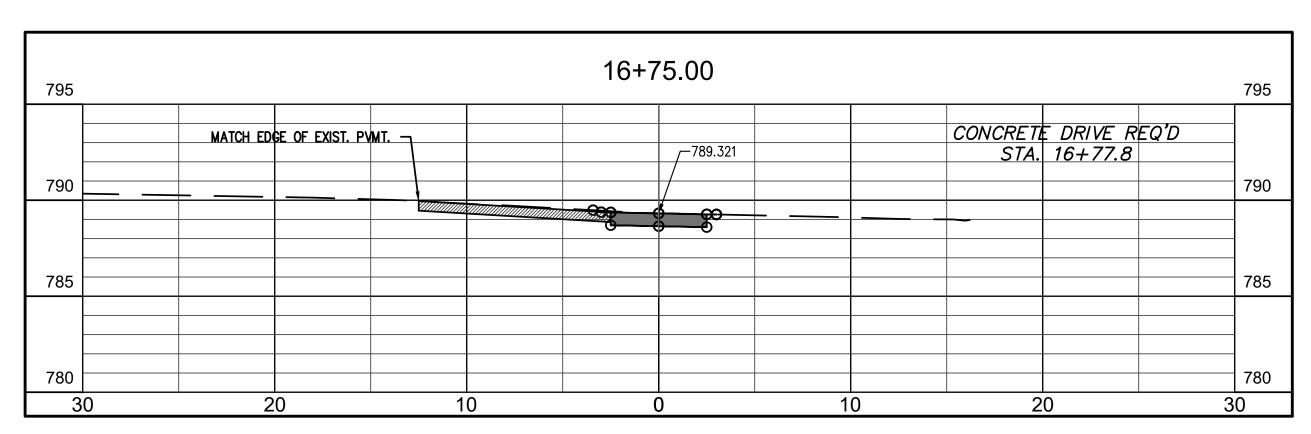
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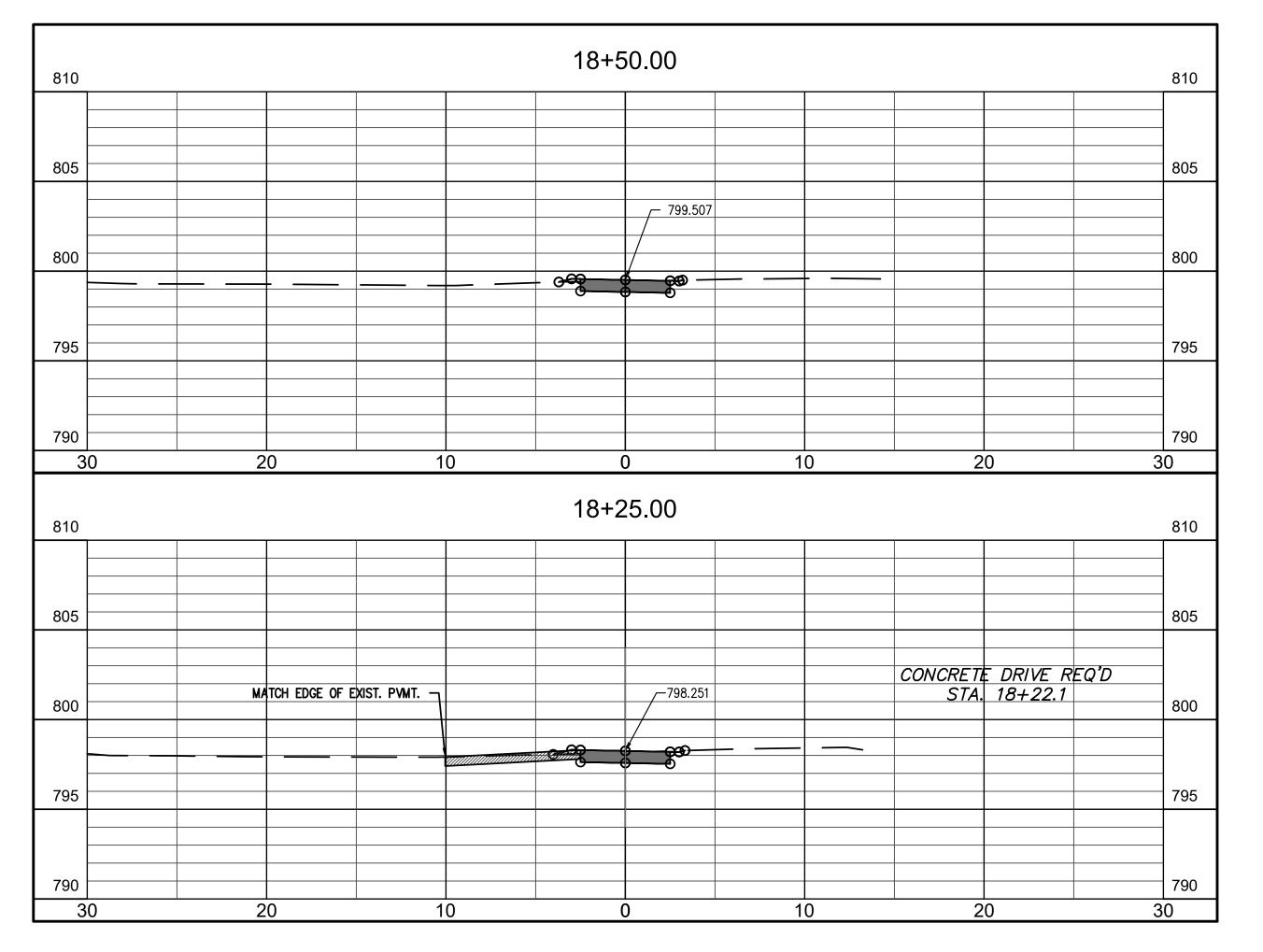
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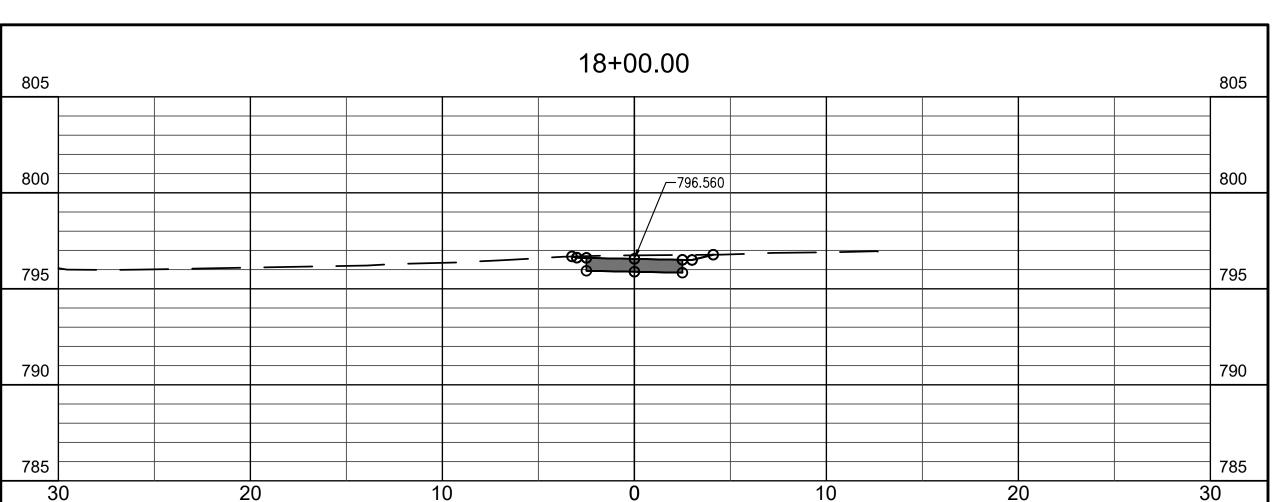
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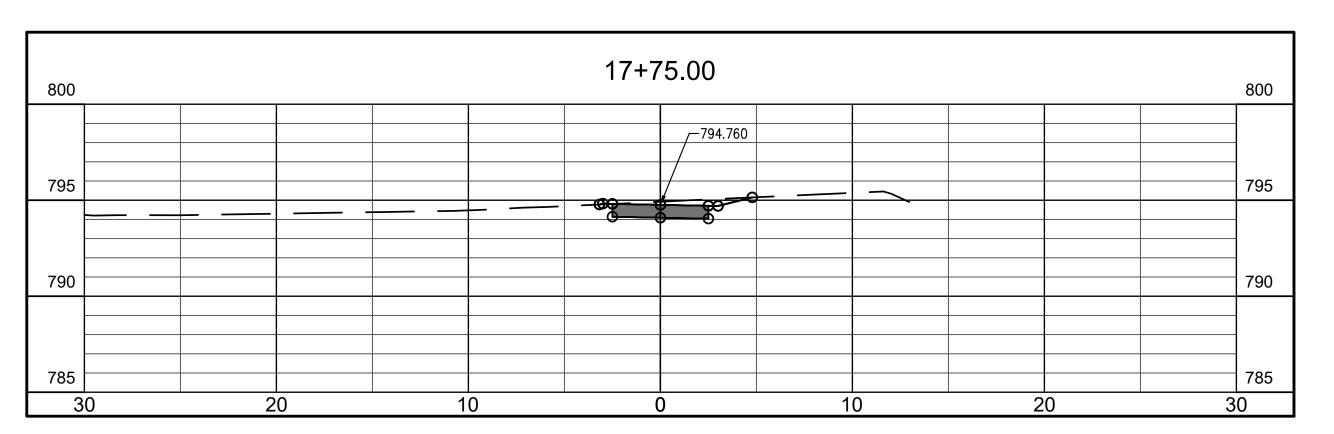












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CIVIL ENGINEERING	PLANNING	bloomington, indiana	(812) 339–2990 (Fax)	

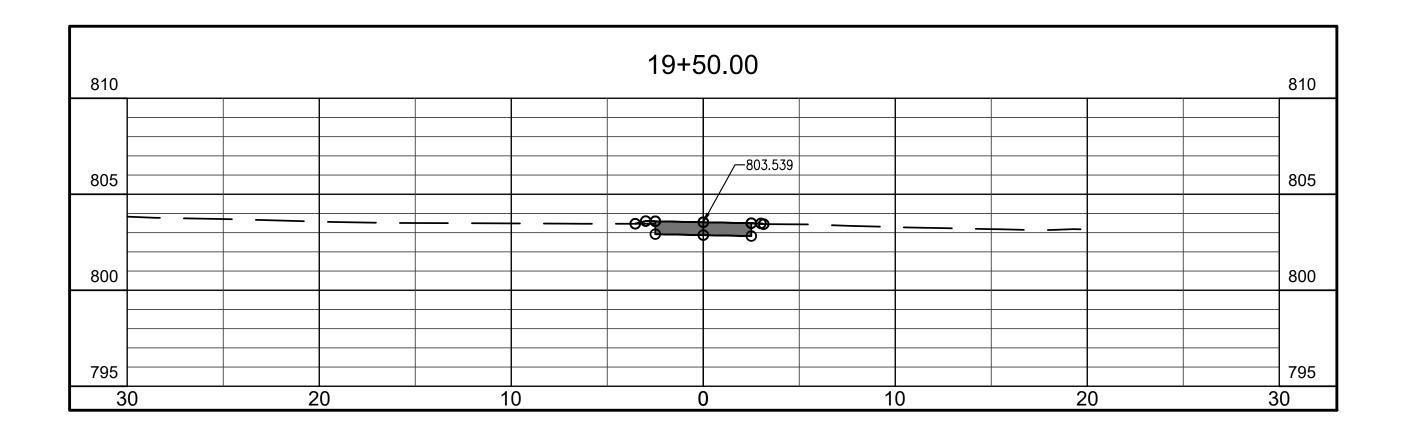
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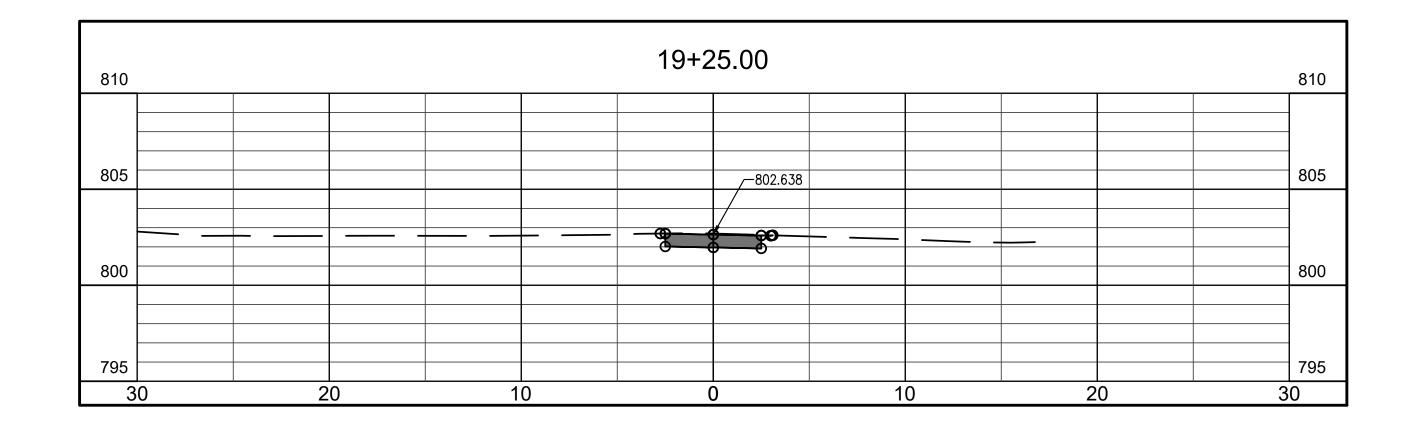


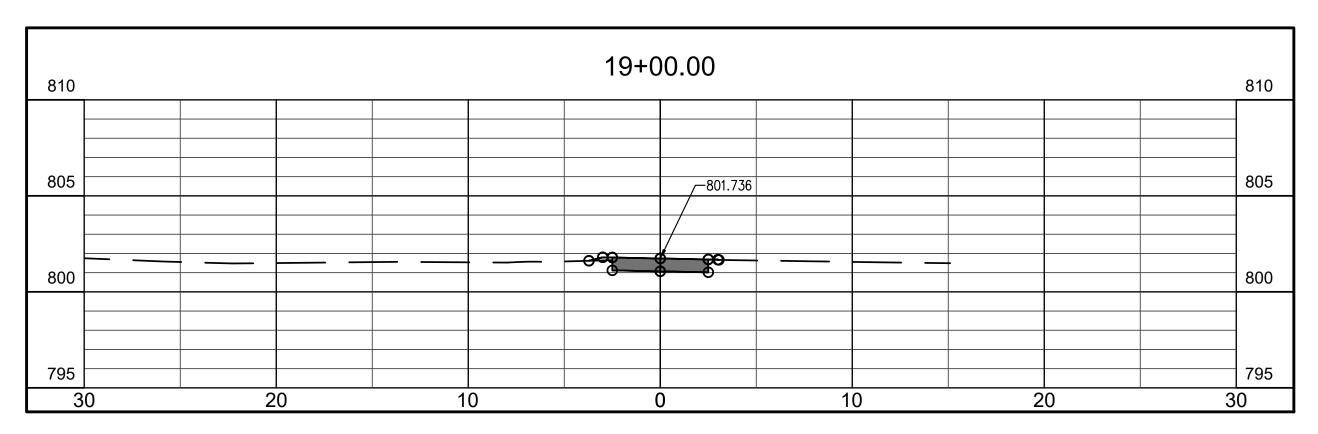
MAXWELL STREET SIDEWALK FROM SHORT STREET TO MILLER DRIVE BLOOMINGTON, INDIANA

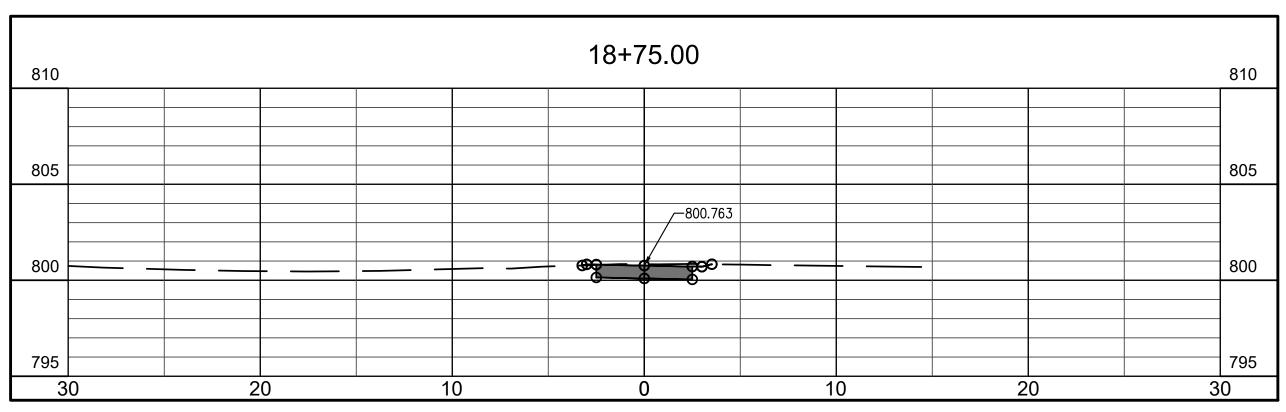
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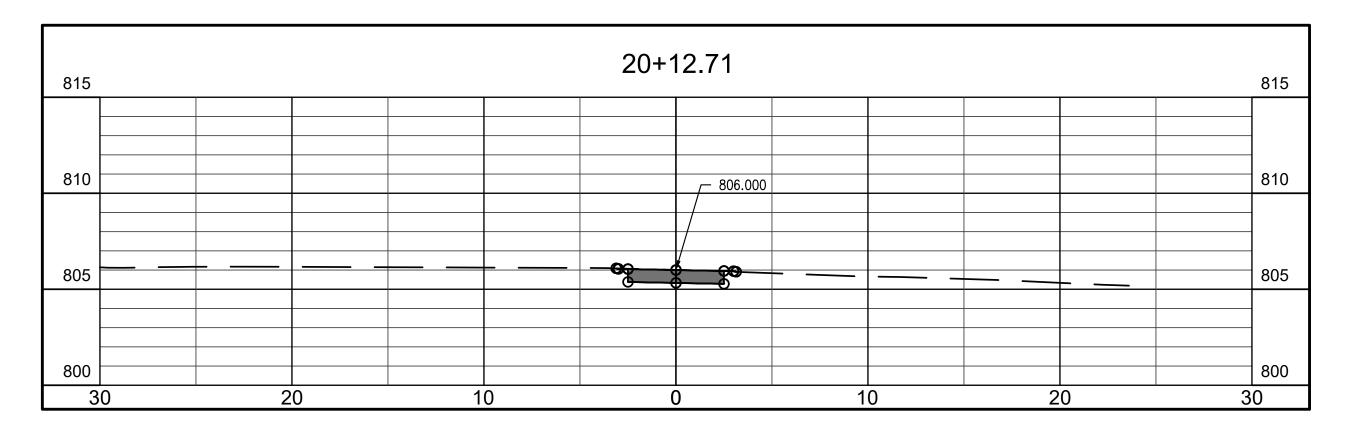
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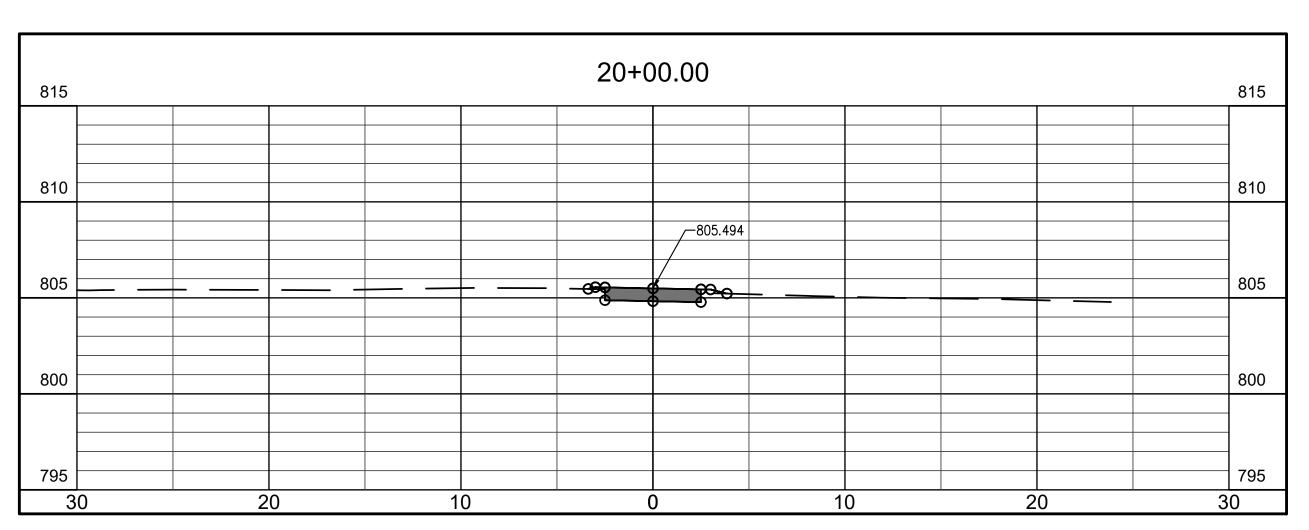


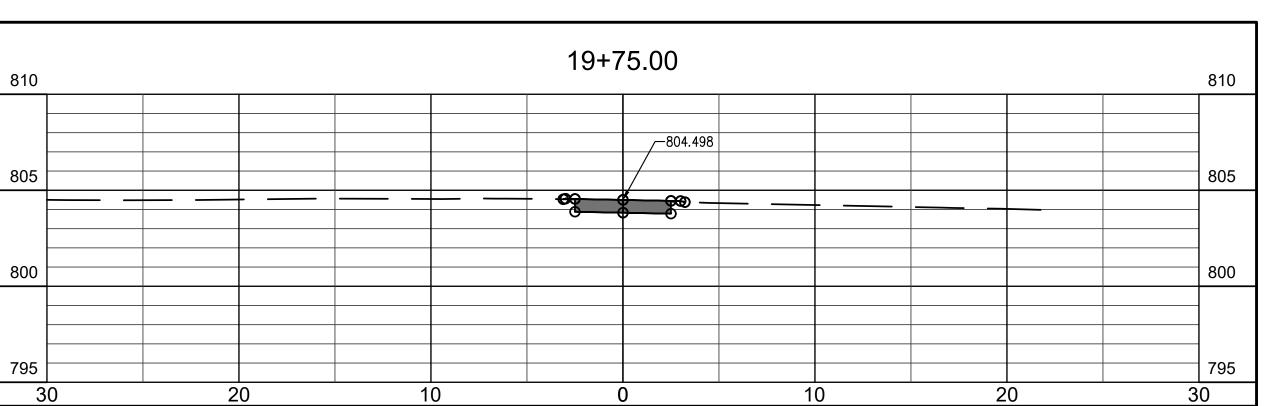












CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

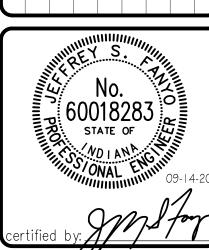
CIVIL ENGINEERING
PLANNING
bloomington, indiana
(812) 339-2990 (Fax)

BYNUM FANYO & ASSOCIATES, INC.

528 north walnut street

(812) 332–8030

(812) 339–299



MAXWELL STREET SIDEWALK FROM SHORT STREET TO MILLER DRIVE
BLOOMINGTON, INDIANA

title: CROSS SECTIONS STA 18+75 TO 20+12.71

designed by: RLC drawn by: RLC checked by: JSF sheet no: C405 project no.: 401852