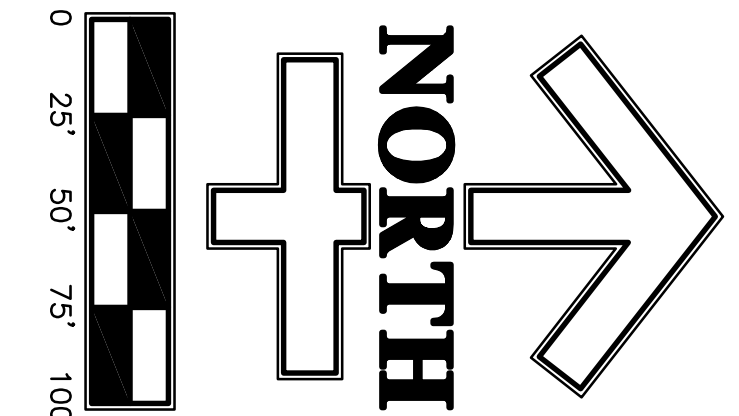




LEGEND :

- 27 LOT NUMBER
- EXISTING SANITARY SEWER W/ MANHOLE
 - EXISTING SANITARY SEWER LATERAL
 - EXISTING STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
 - EXISTING WATER LINE W/ FIRE HYDRANT
 - EXISTING FREELINE
 - EXISTING FENCE
 - EXISTING SPOT ELEVATION
 - EXISTING CONTOUR LINE
 - S.S.D.&E. SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
 - B.S.L. BUILDING SETBACK LINE

NOTICES AND PERMITS

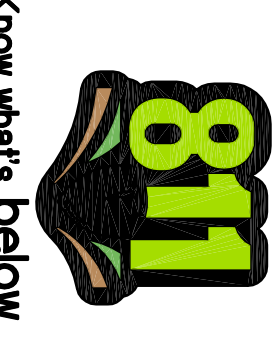
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING ALL PERMITS AND APPROVALS ARE OBTAINED FROM ALL AGENCIES AND ON STATE AGENCIES PRIOR TO STARTING ANY CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREPARE THE CONSTRUCTION AREA PRIOR TO STARTING ANY CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO STARTING ANY CONSTRUCTION.
- SEE FUTURE LOTTING AND RESURVEYING

BENCHMARK: ELEV.=755.95

- NORTH RM ON MANHOLE NO. 8 IN DEER TRACE SUBDIVISION, I.B.M. ELEV.=753.39
- TOP OF EXISTING SANITARY MANHOLE AT CORNER OF LOT 129 IN DEER RM SEC. 2.

FLOOD INFORMATION

THE SUBDIVISION OF THE FLOOD HAZARD DATA SHOWN ON THIS REPORT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR JOHNSON COUNTY, INDIANA, COMMUNITY PANEL #180810222D DATED AUGUST 2, 2007. THE DESCRIBED REAL ESTATE LIES WITHIN ZONE "X", WHICH IS DEFINED AS "AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN."



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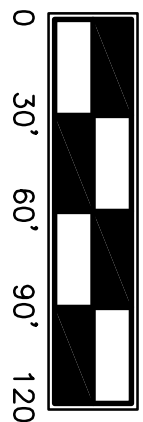
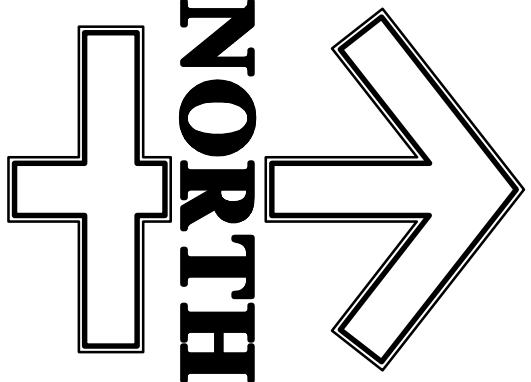
DATE	REVISION	SYMBOL	SCALE	PROJECT	TITLE
			1"=50'	DEER MEADOWS - SECTION ONE	EXISTING SITE CONDITIONS
			DRAWN JPH		
			CHECKED JKS		
			CERTIFIED JKS		

NOVEMBER 12, 2015	15 SHEETS	2	JOB NUMBER 15015.01	SHEET	2
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SEAL	PROJECTS plus	GREENWOOD SURVEYING COMPANY	CIVIL ENGINEERING - LAND SURVEYING LAND PLANNING - CONSTRUCTION MANAGEMENT 2555 Fairview Place Suite A Greenwood, Indiana 46142 (317)-882-5003
------	---------------	-----------------------------	---

SEAL	PROFESSIONAL ENGINEER No. 19419 State of Indiana Jeffrey K. Smith 11/2/15
------	---

NORTH



NOTES

1. ALL UTILITY CROSSINGS OR TRENCHES WITHIN 10' FEET OF THE EDGE OF THE PAVED DRIVEWAY SHALL BE CONSTRUCTED TO MEET THE REQUIREMENTS OF THE U.S. DEPARTMENT OF TRANSPORTATION (FHWA) STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC ROADS, LATEST EDITION, AND SHALL BE COMPACTED IN SIX INCH LIFTS.
2. TRAFFIC CONTROL DEVICES SHALL MEET I.A.U.T.C.O.D. STANDARDS.
3. THE PLANNING/ENGINEER CONTRACTOR SHALL NOTIFY THE CITY OF GREENWOOD, INDIANA, OF ANY CHANGES TO THE PROPOSED PLAN AND PROFILE.
4. FOR UNDERDRAIN LOCATIONS SEE STREET PLAN AND PROFILES.
5. FOR SERVICE LATERAL LOCATIONS SEE LATERAL PLAN.
6. FOR HANDICAP ACCESS RAMP DETAILS SEE STREET DETAILS.
7. THE PAVEMENT GRAD SHALL BE 0.3%.
8. ALL EXISTING FIELD TIES DISTURBED DURING CONSTRUCTION SHALL BE RE-DIRECTED TO THE NEAREST STORM STRUCTURE AND SHOWN ON AS-BUILT DRAWINGS.
9. PRIOR TO THE START OF CONSTRUCTION, THE PLANNING/ENGINEER SHALL OBTAIN A LETTER FROM THE CITY OF GREENWOOD, INDIANA, AUTHORIZING THE PLANNING/ENGINEER TO INSPECT THE SITE DEVELOPMENT AND MAKE SERVICEABLE.
10. PER EVERY 25 FT OR PORTION THEREOF OF STREET FRONTAGE AND MEET THE REQUIREMENTS OUTLINED IN ARTICLE 6.15.

SEE EXISTING LOTS AND RESURFACING

NOTICES AND PERMITS

1. THE PLANNING/ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF GREENWOOD, INDIANA, AND ANY STATE AGENCIES PRIOR TO THE START OF CONSTRUCTION.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING ANY CONSTRUCTION.
3. THE PLANNING/ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF GREENWOOD, INDIANA, AND ANY STATE AGENCIES PRIOR TO THE START OF CONSTRUCTION.

BENCHMARK: ELEV.=755.95

1. NORTH RIM ON MANHOLE NO. 8 IN DEER TRACE SUBDIVISION, I.B.M. ELEV.=753.39

1. TOP OF EXISTING SANITARY MANHOLE AT CORNER OF LOT 29 IN DEER RIM SEC. 2.

FLOOD INFORMATION

THE FLOOD HAZARD DATA SHOWN ON THIS MAP IS BASED ON THE FLOOD HAZARD DATA SHOWN ON THE FLOOD HAZARD MAP OF THE CITY OF GREENWOOD, INDIANA, AND IS NOT A GUARANTEE OF THE ACCURACY OF THE DATA. THE PLANNING/ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF GREENWOOD, INDIANA, AND ANY STATE AGENCIES PRIOR TO THE START OF CONSTRUCTION.

EXISTING END SECTION TO BE NEW POND CONTROL BOX. SEE DETAIL ON SHEET 11

LEGEND:

- | | | |
|--------|---|--------------|
| 27 | LOT NUMBER | S.S.D. AULE. |
| 754.50 | PROPOSED EARTHEN PAD ELEVATION | D. AULE. |
| | PROPOSED SANITARY SEWER W/ MANHOLE | B.S.L. |
| | PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET | Lot # |
| | EXISTING SANITARY SEWER W/ MANHOLE | (N) |
| | EXISTING STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET | (S) |
| | STRUCTURE NUMBER | |
| | PROPOSED SPOT ELEVATION | |
| | EXISTING CONTOUR LINE | |
-
- | | |
|--|---|
| | SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT |
| | DRAINAGE AND UTILITY EASEMENT |
| | BUILDING SETBACK LINE |
| | PROPOSED HANDICAP ACCESS RAMP |
| | PROPOSED AREA LIGHT |
| | PROPOSED STREET NAME SIGN |
| | PROPOSED STOP SIGN |
| | PROPOSED SPEED LIMIT SIGN (25 M.P.H.) |
| | CENTERLINE MONUMENT |
| | (C) REAR 24" LONG, 104" WIDE |

MINIMUM SETBACKS

1. SIDE YARDS - THE SIDE YARD SETBACK LINES SHALL BE A MINIMUM OF 10 FEET FROM THE REAR LINE OF THE LOT.
2. REAR YARDS - THE REAR YARD SETBACK SHALL BE A MINIMUM OF FIFTEEN (15) FEET FROM THE REAR LINE OF THE LOT.



PROJECTS plus

GREENWOOD SURVEYING COMPANY

CIVIL ENGINEERING - LAND SURVEYING
LAND PLANNING - CONSTRUCTION MANAGEMENT
2555 Fairview Place Suite A Greenwood, Indiana 46142
(317)-882-5003

SEAL

NO. 19419
DATE 11/21/15
PROFESSIONAL ENGINEER

JOB NUMBER
15015.01
SHEET

3

15 SHEETS

NOVEMBER 12, 2015

PROJECT
DEER MEADOWS - SECTION ONE
CITY OF FRANKLIN, JOHNSON COUNTY, INDIANA

TITLE
PROPOSED SITE CONDITIONS

SCALE	SYMBOL	REVISION	DATE
1"=60'			
DRAWN JPH			
CHECKED JKS			
CERTIFIED JKS			

DEER MEADOWS - SECTION ONE

ELEMENT SHEET			ELEMENT SHEET			ELEMENT SHEET		
ELEMENT	NO	NAME	ELEMENT	NO	NAME	ELEMENT	NO	NAME
A1	1	ANCHORED	A1	1	ANCHORED	A1	1	ANCHORED
A2	2	ANCHORED	A2	2	ANCHORED	A2	2	ANCHORED
A3	3	ANCHORED	A3	3	ANCHORED	A3	3	ANCHORED
A4	4	ANCHORED	A4	4	ANCHORED	A4	4	ANCHORED
A5	5	ANCHORED	A5	5	ANCHORED	A5	5	ANCHORED
A6	6	ANCHORED	A6	6	ANCHORED	A6	6	ANCHORED
A7	7	ANCHORED	A7	7	ANCHORED	A7	7	ANCHORED
A8	8	ANCHORED	A8	8	ANCHORED	A8	8	ANCHORED
A9	9	ANCHORED	A9	9	ANCHORED	A9	9	ANCHORED
A10	10	ANCHORED	A10	10	ANCHORED	A10	10	ANCHORED
A11	11	ANCHORED	A11	11	ANCHORED	A11	11	ANCHORED
A12	12	ANCHORED	A12	12	ANCHORED	A12	12	ANCHORED
A13	13	ANCHORED	A13	13	ANCHORED	A13	13	ANCHORED
A14	14	ANCHORED	A14	14	ANCHORED	A14	14	ANCHORED
A15	15	ANCHORED	A15	15	ANCHORED	A15	15	ANCHORED
A16	16	ANCHORED	A16	16	ANCHORED	A16	16	ANCHORED
A17	17	ANCHORED	A17	17	ANCHORED	A17	17	ANCHORED
A18	18	ANCHORED	A18	18	ANCHORED	A18	18	ANCHORED
A19	19	ANCHORED	A19	19	ANCHORED	A19	19	ANCHORED
A20	20	ANCHORED	A20	20	ANCHORED	A20	20	ANCHORED
A21	21	ANCHORED	A21	21	ANCHORED	A21	21	ANCHORED
A22	22	ANCHORED	A22	22	ANCHORED	A22	22	ANCHORED
A23	23	ANCHORED	A23	23	ANCHORED	A23	23	ANCHORED
A24	24	ANCHORED	A24	24	ANCHORED	A24	24	ANCHORED
A25	25	ANCHORED	A25	25	ANCHORED	A25	25	ANCHORED
A26	26	ANCHORED	A26	26	ANCHORED	A26	26	ANCHORED
A27	27	ANCHORED	A27	27	ANCHORED	A27	27	ANCHORED
A28	28	ANCHORED	A28	28	ANCHORED	A28	28	ANCHORED
A29	29	ANCHORED	A29	29	ANCHORED	A29	29	ANCHORED
A30	30	ANCHORED	A30	30	ANCHORED	A30	30	ANCHORED
A31	31	ANCHORED	A31	31	ANCHORED	A31	31	ANCHORED
A32	32	ANCHORED	A32	32	ANCHORED	A32	32	ANCHORED
A33	33	ANCHORED	A33	33	ANCHORED	A33	33	ANCHORED
A34	34	ANCHORED	A34	34	ANCHORED	A34	34	ANCHORED
A35	35	ANCHORED	A35	35	ANCHORED	A35	35	ANCHORED
A36	36	ANCHORED	A36	36	ANCHORED	A36	36	ANCHORED
A37	37	ANCHORED	A37	37	ANCHORED	A37	37	ANCHORED
A38	38	ANCHORED	A38	38	ANCHORED	A38	38	ANCHORED
A39	39	ANCHORED	A39	39	ANCHORED	A39	39	ANCHORED
A40	40	ANCHORED	A40	40	ANCHORED	A40	40	ANCHORED
A41	41	ANCHORED	A41	41	ANCHORED	A41	41	ANCHORED
A42	42	ANCHORED	A42	42	ANCHORED	A42	42	ANCHORED
A43	43	ANCHORED	A43	43	ANCHORED	A43	43	ANCHORED
A44	44	ANCHORED	A44	44	ANCHORED	A44	44	ANCHORED
A45	45	ANCHORED	A45	45	ANCHORED	A45	45	ANCHORED
A46	46	ANCHORED	A46	46	ANCHORED	A46	46	ANCHORED
A47	47	ANCHORED	A47	47	ANCHORED	A47	47	ANCHORED
A48	48	ANCHORED	A48	48	ANCHORED	A48	48	ANCHORED
A49	49	ANCHORED	A49	49	ANCHORED	A49	49	ANCHORED
A50	50	ANCHORED	A50	50	ANCHORED	A50	50	ANCHORED
A51	51	ANCHORED	A51	51	ANCHORED	A51	51	ANCHORED

- A3. DEEPER WEDGES - SECTION ONE IS A PROPOSED RESIDENTIAL SUBDIVISION IN THE CITY OF FRANKLIN, INDIANA. THE CONSTRUCTION OF THIS SUBDIVISION WILL REQUIRE THE CONSTRUCTION OF ASPHALT PAVEMENT AND CONCRETE CURBS, CONCRETE WALLS, STORM SEWERS, SANITARY SEWERS, WATER MAINS, AND VARIOUS UTILITIES.
- A4. VARIOUS MAP ON TITLE SHEET - SEE SHEET 1
- A5. LEGAL DESCRIPTION - SEC 29/ 1/4, SEC. 10-11/2N-R4E
- LATITUDE: N29°25'36" LONGITUDE: W89°0'38"
- A6. LOTS AND SUBPARCELS SHOWN ON PROPOSED SITE CONDITIONS - (SEE SHEETS) 3
- A7. THE PROPOSED LOT LINES ARE SHOWN ON THE ATTACHED MAP.
- A8. NO STATE OR FEDERAL WATER QUALITY CERTAINS ARE REQUIRED FOR THIS PROJECT.
- A9. STORM WATER WILL DISCHARGE FROM THE SITE INTO DETENTION FACILITY, ULTIMATELY CUMBER DITCH - (SEE SHEET) 4
- A10. NO WETLANDS EXIST ON SITE
- A11. NO WETLANDS EXIST ADJACENT TO SITE
- A12. WE ANTICIPATE NO FURTHER ADEQS WERE DISCHARGE WILL ENTER GROUNDWATER.
- A13. THE 100 YEAR FLOODPLAIN FLOODINGS OF FLOODWAY FRANKS EXIST ON THIS SITE
- A14. THE CONSTRUCTION TO YEAR CUTOIN = 1938 C.T.S
- A15. THE CONSTRUCTION TO YEAR CUTOIN = 1938 C.T.S
- A16. LAND USE OF ADJACENT PROPERTIES - WEST RESIDENTIAL - WEST RESIDENTIAL - NORTH RESIDENTIAL - WEST RESIDENTIAL

- [illegible]

- b) The evaluation of the project will be based on the following criteria:
 1. The maintenance of existing storm water quality measures to ensure they are functioning properly and
 2. Identify additional measures necessary to remain in compliance with the applicable statutes and rules.
- c) Written evaluation reports will include:
 1. The name of the individual performing the action
 2. The date of the evaluation
 3. Problems identified at the project site and
 4. Details of corrective actions recommended and completed.

8.5. CONTROL FOR INDIVIDUAL BUILDING LOTS CONSTRUCTION SEQUENCE AS FOLLOWS:

- [illegible]

2. INSTALLED POND AND ALL WATER QUALITY BEST MANAGEMENT PRACTICE (BMP) STRUCTURES TO BE UTILIZED FOR SEDIMENT CONTROL.
3. INSTALL PIPE PROTECTION AT ALL END SECTIONS ENTERING POND AS SOON AS SPITS ARE IN PLACE.
4. INSPECT AND RE-SEED SMALES AS NEEDED AFTER COMPLETION OF FINAL GRADING.
5. MONITOR AND MAINTAIN SWALE AREAS UNTIL A MATURE STAND OF GRASS EXISTS.
6. CLEAN ALL CATCH BASINS OF DEBRIS WHEN GRADING IS COMPLETE.
7. SWEEP STREETS REGULARLY AND KEEP FREE OF DEBRIS.

- [illegible]

B. PAVEMENT AREAS SHOULD BE MONITORED FOR POLLUTANTS; ANY LARGE QUANTITIES OF FLUID SUCH AS OIL, ANTIFREEZE, BRAKE FLUID, FOUND ON THE PAVEMENT SHOULD BE REPORTED TO THE OWNER. THE OWNER SHOULD CLEAN THE POLLUTANTS AND PREVENT THE SOURCE FROM ENTERING THE SITE IN THE FUTURE. FINALLY, PAVEMENTS SHOULD ALSO BE MONITORED FOR SEDIMENT COMING FROM VEGETATIVE AREAS. IF PAVEMENT CONSTRUCTION EROSION IS OCCURRING, THE SOURCE SHOULD BE RE-STABILIZED AS SOON AS POSSIBLE BY SEEDING, SOODING OR MULCHING.

SILE CONTACT:
CONTACT: TODD PYATT
PYATT BUILDERS
168 W. CARMEL DRIVE
CARMEL, IN 46032
PHONE NO. (317) 379-0188

NOTICES AND PERMITS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OF ALL NECESSARY PERMITS AND APPROVALS ARE OBTAINED FROM THE APPROPRIATE CITY AND/OR STATE AGENCIES PRIOR TO STARTING ANY CONSTRUCTION.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING ANY CONSTRUCTION.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO STARTING ANY CONSTRUCTION.

1. ALL EROSION CONTROL MEASURES
BY THE CONTRACTOR AND OWNER

2. THE CITY ENGINEER HAS THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IN THE FIELD AS CONDITIONS WARRANT.
3. FOR EROSION CONTROL, IMPLEMENTATION AND MAINTENANCE DIRECTION, SEE "EROSION CONTROL REQUIREMENTS" ON SHEET NO. 15.
4. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE "INDIANA STORM WATER QUALITY MANUAL" AND THE SOCS FIELD OFFICE TECHNICAL GUIDE.

GENERAL NOTES

FERTILIZER AND AGRICULTURAL LIMESTONE SHALL BE SPREAD UNIFORMLY OVER THE AREA TO BE SEED. THEY SHALL BE MIXED INTO THE TOP 2" OF SOIL WITH A DISK HARROW, ROTARY TILLER, OR OTHER APPROVED EQUIPMENT. FERTILIZER SHALL BE SPREAD AT THE RATE OF 40 POUNDS PER ACRE, AND AGRICULTURAL LIMESTONE AT THE RATE OF 1/2 TON PER ACRE UNLESS OTHERWISE SPECIFIED.

- [illegible]



LOT NUMBER
PROPOSED EARTHEN PAD ELEVATION
PROPOSED SANITARY SEWER W/ MANHOLE
PROPOSED STORM SEWER W/ END
SECTION, MANHOLE, DITCH INLET AND CURB INLET
EXISTING STORM SEWER W/ END
SECTION, MANHOLE, DITCH INLET,
AND CURB INLET
EXISTING CONTOUR LINE
SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
PRIVACY AND UTILITY EASEMENT
BUILDING SETBACK LINE
FILTER FENCE
MULTI-SEED WITH NORTH AMERICAN GREEN, BL-150
AND BENTONITE (SEE ATTACHED SPECIFICATIONS)
BANKS AND TO THE TOP OF BANKS FOR ALL SMALL
MULTI-SEED
TEMPORARY-SEED
PERMANENT-SEED
TABLE NO. SW P.P.P. (DET. SHT.)
DROP INLET PROTECTION
POY. CUM.
8.5" STONE (OR SMALLER)
REGIONAL CONTROL PROJECT SCH. INCLUDES UN-
DERGROUND SANITARY SEWER, DRAINAGE AND UTILITY
EASEMENT, MANHOLE & PHONE NO. OF CONTACT PERSON,
LOCATION OF CONSTRUCTION PLANS

**Know what's below.
Call before you dig.**

4	OF 15 SHEETS	DATE NOVEMBER 12, 2015
---	--------------	---------------------------

15015.01

JEFFERY K. SMITH
REGISTERED
No. 19419
STATE OF INDIANA
PROFESSIONAL ENGINEER
11/12/15

PROJECTS *plus*

GREENWOOD SURVEYING COMPANY

CIVIL ENGINEERING - LAND SURVEYING
LAND PLANNING - CONSTRUCTION MANAGEMENT
2555 Fairview Place Suite A - Greenwood, Indiana 46142
(317)-882-5003

PROJECT

DEER MEADOWS — SECTION ONE
CITY OF FRANKLIN, JOHNSON COUNTY, INDIANA

TITLE

STORM WATER POLLUTION
PREVENTION PLAN

SCALE
1"=60'

DRAWN
JPH

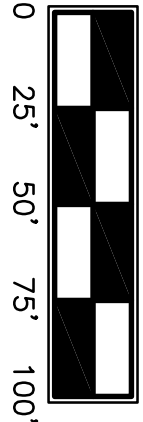
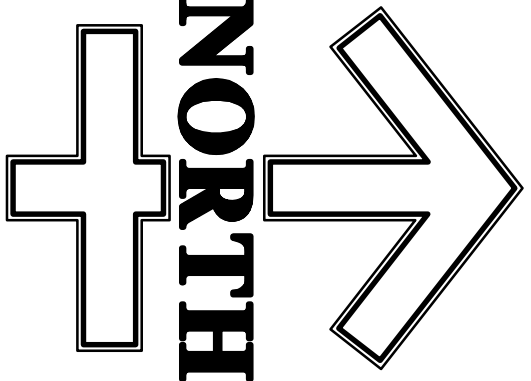
CHECKED
JKS

CERTIFIED
JKS

SYMBOL

REVISION

DAT



LEGEND -

- 27

LOT NUMBER
- PROPOSED SANITARY SEWER W/ MANHOLE
- PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
- PROPOSED WATER LINE W/ VALVE AND FIRE HYDRANT AND ASSEMBLY
- EXISTING CONTOUR LINE
- SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
- DRAINAGE AND UTILITY EASEMENT BUILDING SETBACK LINE
- GRANULAR BACKFILL
- GRANULAR BACKFILL REQUIRED
- 6" PVC UNDERGROUND (75%)

STORM SEWER NOTES

1. THE STORM WATER QUANTITY (UNITS) SHOWN ON THESE PANS SHALL BE SUBSTITUTIONS SHALL BE PERMITTED.
2. ALL CASTINGS SHALL HAVE STANDARD "EMPOWERMENTALLY FRIENDLY" LOGS" EMBOSSED INTO THE INLET.
3. ALL UTILITY CROSSINGS OR INTERFERENCE WITHIN (50' FEET) OF THE EXISTING STORM SEWER SHALL BE NOTED AND THE UPPERMOST 48" OF GRANULAR MATERIAL SHALL BE #53 STONE AND COMPACTED IN SIX INCH LIFTS.
4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST CONSTRUCTION SHALL BE RE-DIRECTED TO THE NEAREST STORM STRUCTURE AND SHOWN ON AS-BUILT DRAWINGS.

NOTICES AND PERMITS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR PROVIDING ALL NECESSARY PERMITS AND NOTIFICATIONS FROM THE RESPECTIVE CITY, COUNTY OR STATE AGENCIES PRIOR TO STARTING ANY CONSTRUCTION.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTING CONSTRUCTION AREA PRIOR TO STARTING ANY CONSTRUCTION.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION OF ALL ADJACENT PROPERTY OWNERS PRIOR TO STARTING ANY CONSTRUCTION.

SEE PREVIOUS NOTICES AND RESOLUTIONS

BENCHMARK: ELEV.=753.95

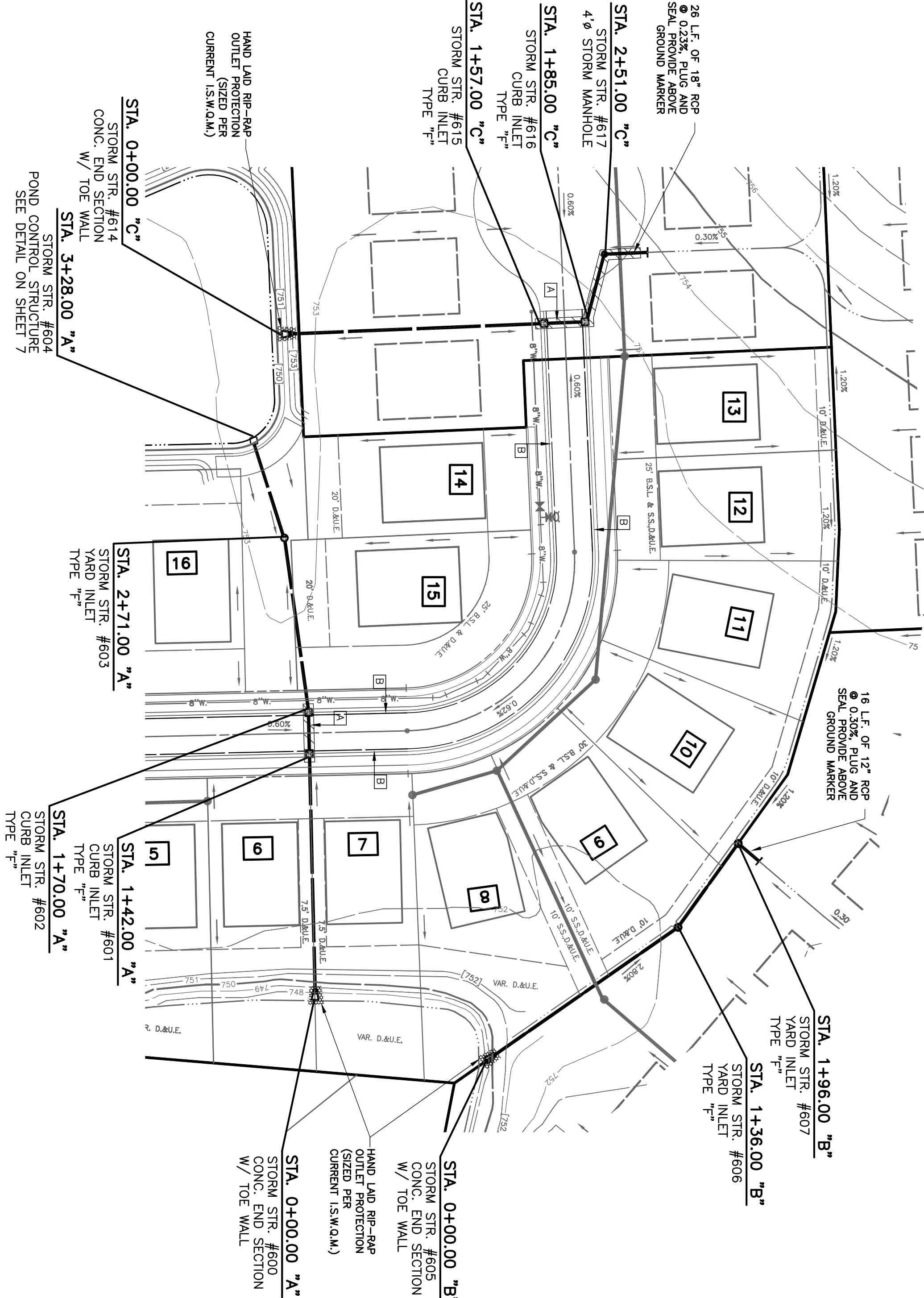
1. NORTH RIM ON MANHOLE NO. 8 IN DEER TRACE SUBDIVISION.

I.B.M. ELEV.=753.39

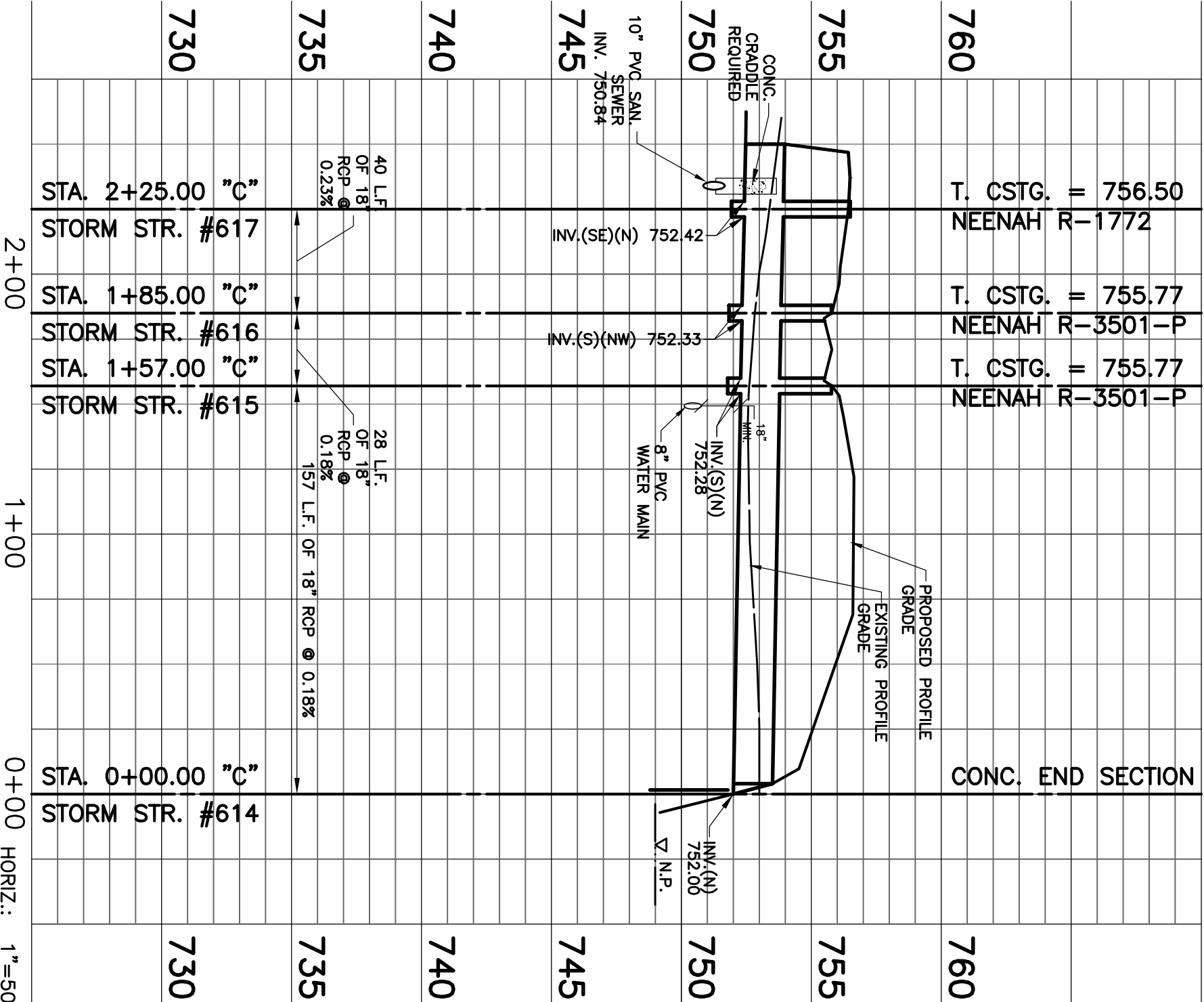
1. TOP OF EXISTING SANITARY MANHOLE AT CORNER OF LOT #29 IN DEER RUN SEC. 2.



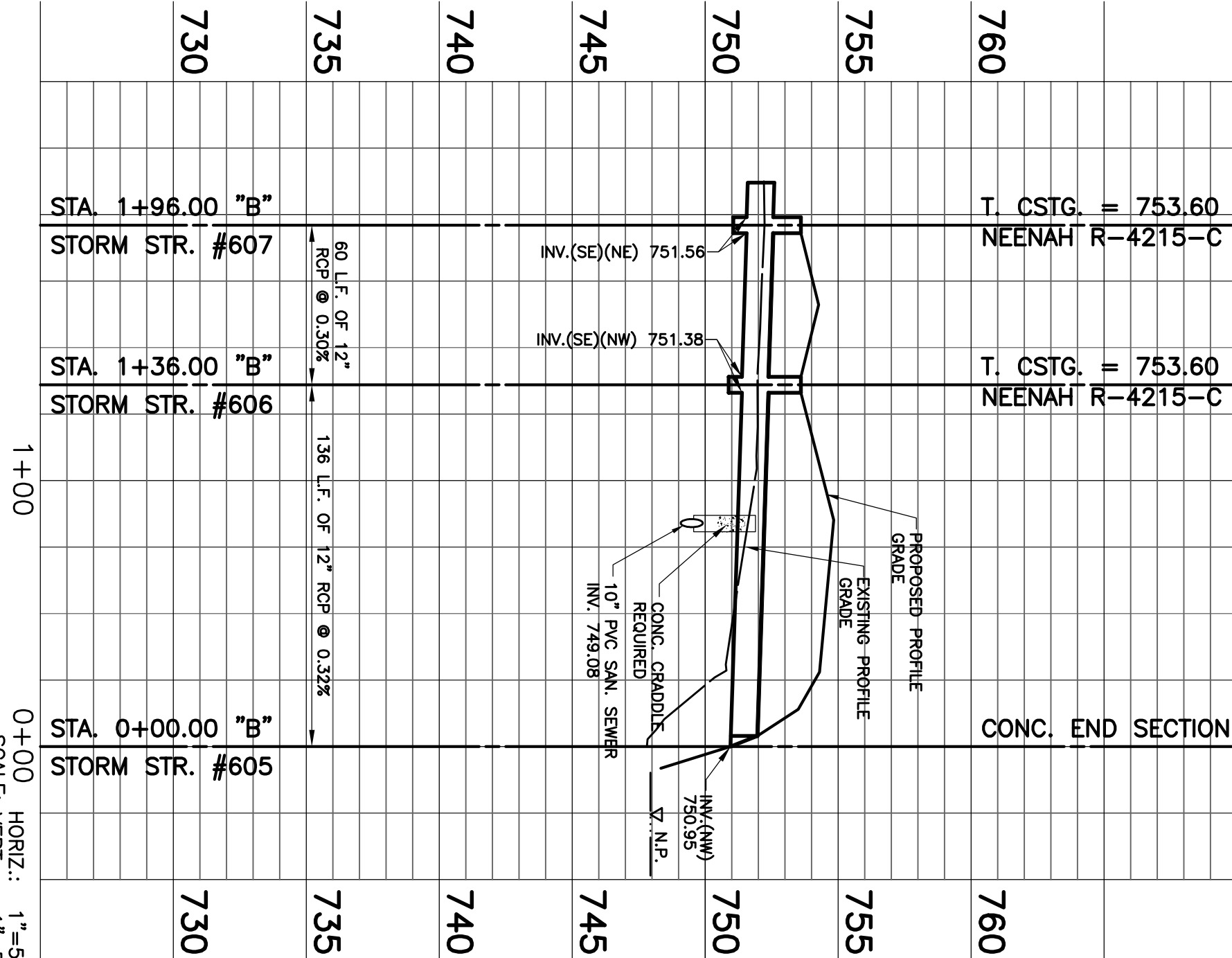
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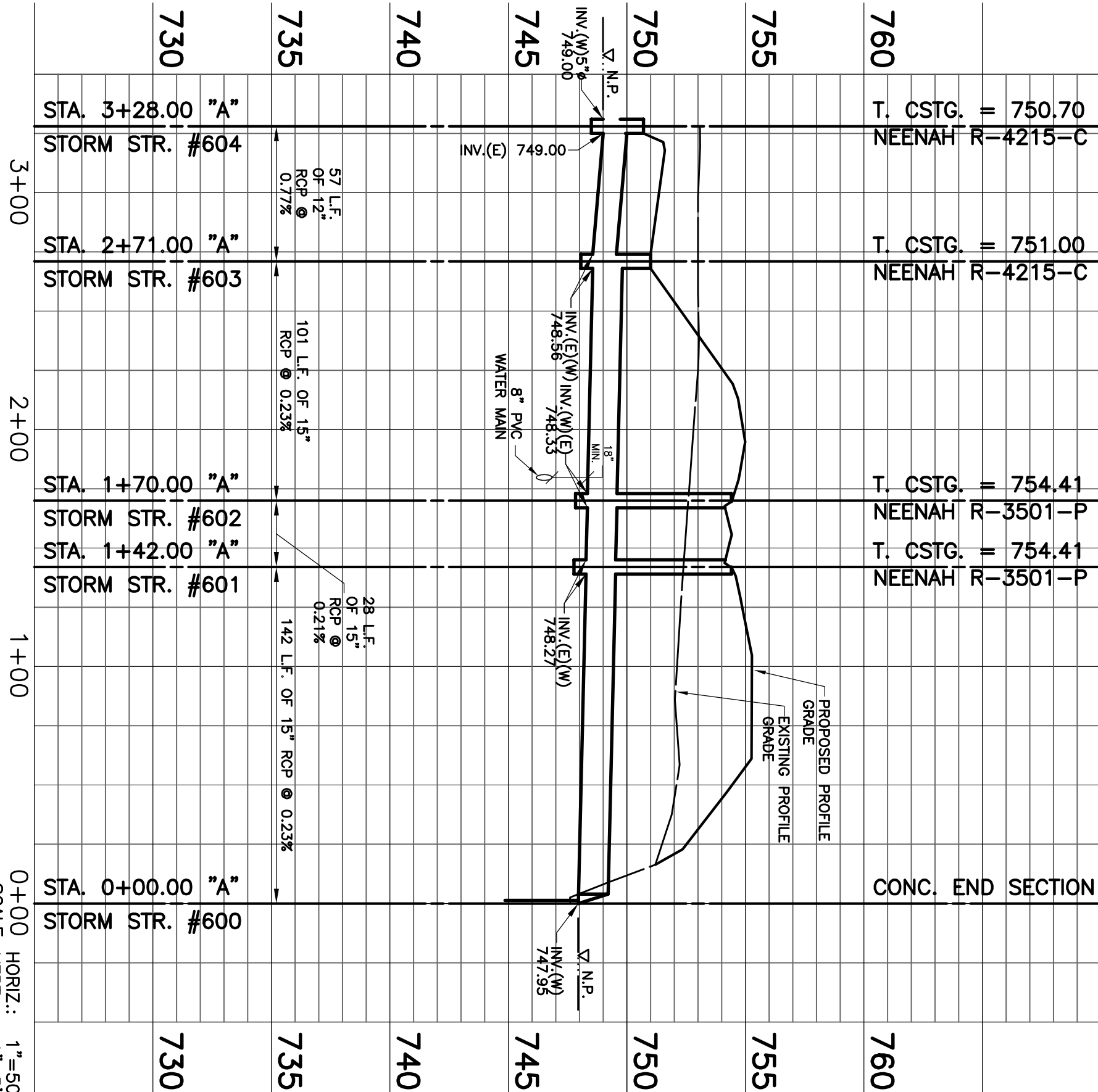
LINE 'C'



LINE 'B'



LINE 'A'



PROJECTS plus

GREENWOOD SURVEYING COMPANY

CIVIL ENGINEERING - LAND SURVEYING
LAND PLANNING - CONSTRUCTION MANAGEMENT
2555 Fairview Place Suite A - Greenwood, Indiana 46142
(317)-882-5003

SEAL

LETTER K. SHIMM
REGISTERED PROFESSIONAL ENGINEER
No. 19419
STATE OF INDIANA
11/12/15

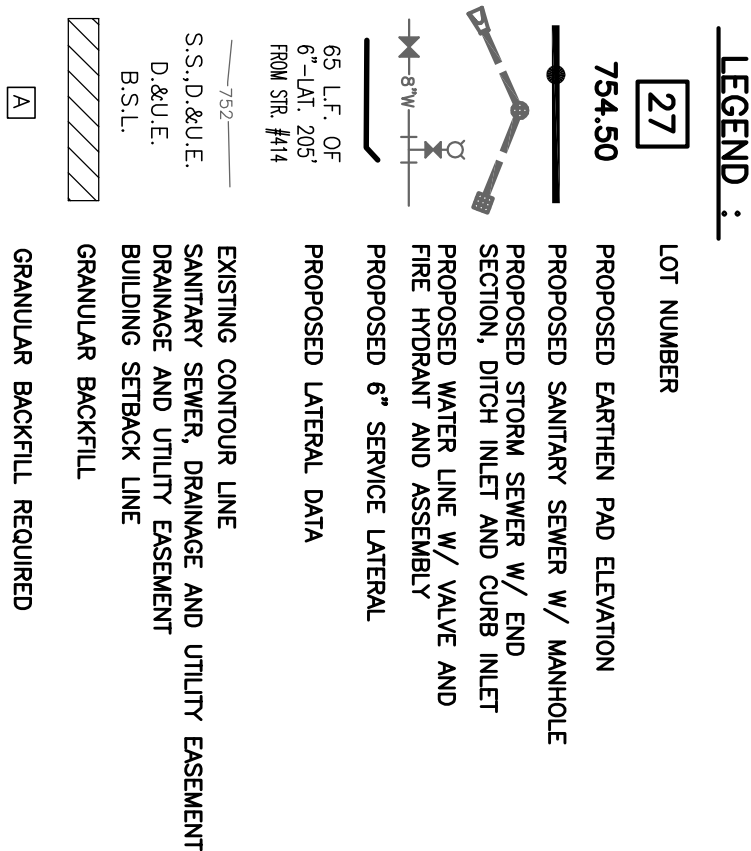
JOB NUMBER
15015.01

SHEET

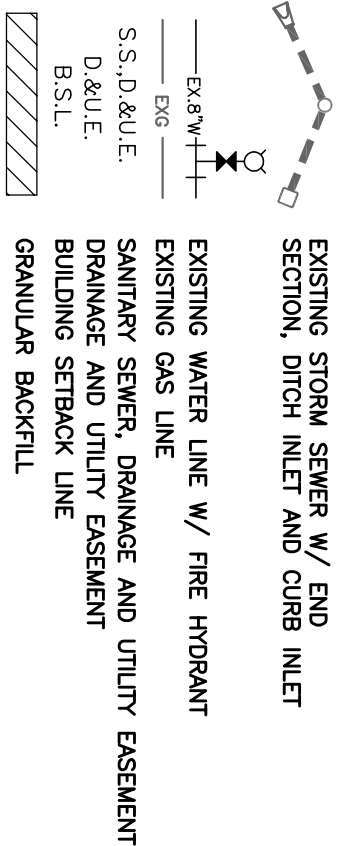
5

OF 15 SHEETS
DATE NOVEMBER 12, 2015

DATE	REVISION	SYMBOL	SCALE	PROJECT
			AS SHOWN	DEER MEADOWS - SECTION ONE
			DRAWN	CITY OF FRANKLIN, JOHNSON COUNTY, INDIANA
			CHECKED	TITLE
			CERTIFIED	STORM SEWER PLAN AND PROFILE
			JKS	

[illegible][illegible][illegible][illegible][illegible][illegible]

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RESPECTIVE CITY, COUNTY OR STATE AGENCIES PRIOR TO STARTING ANY CONSTRUCTION.
2. THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING ANY CONSTRUCTION.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH THE RESPECTIVE CITY AND COUNTY COMPANIES PRIOR TO STARTING ANY CONSTRUCTION.



TOTAL WATERLINE LENGTHS		
PIPE SIZE	PIPE MATERIAL	PIPE TOTAL
8" PVC	PVC C900 DR-14	700'
		TOTAL = 700'

1. NORTH RIM ON MANHOLE NO. 8 IN DEER TRACE SUBDIVISION
T.B.M. ELEV.=753.39
1. TOP OF EXISTING SANITARY MANHOLE AT CORNER OF LOT #29 IN DEER RUN SEC. 2

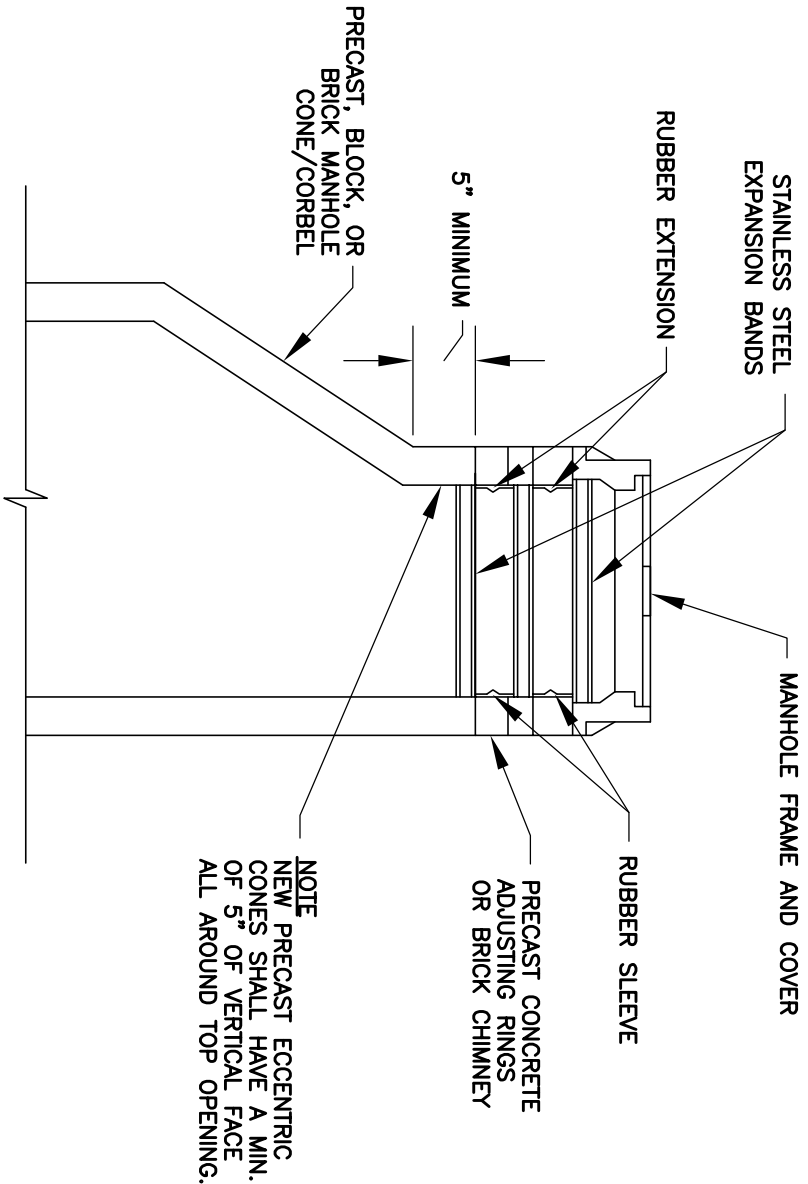
WATER NOTES:

1. ALL JUNT PRESSURES OR THICKNES WITHIN (3) FEET OF THE EDGE OF EACH JOINT SHALL BE PROTECTED TO THE SUBGRADE WITH GRANULAR STONE AND COMPACTED IN SIX INCH LIFTS.
2. THE WATER AND SANDWY STRENGTH SHALL HAVE A MINIMUM HORIZONTAL MINIMUM 18" VERTICAL SEPARATION FROM SANDWY AND STORM SEWER. IF THE REQUIRED SEPARATION CANNOT BE MET, USE THE APPROVED ALTERNATIVE STANDARD.
3. THE METHOD OF DESIGN WATER BARS AND REINFORCING JOINTS SHALL BE APPROVED BY THE ENGINEER.
4. JOINTS SHALL BE PROTECTED WITH GRANULAR STONE AND COMPACTED IN SIX INCH LIFTS FOR ALL STIFFED JOINTS AND PLACING JOINT AND ALL OTHER JOINTS AND JOINTS. THE JOINTS SHALL BE INSTALLED PER THE APPROVED SPECIFICATIONS.
5. JOINTS SHALL BE PROTECTED WITH GRANULAR STONE AND COMPACTED IN SIX INCH LIFTS FOR ALL STIFFED JOINTS AND PLACING JOINT AND ALL OTHER JOINTS AND JOINTS. THE JOINTS SHALL BE INSTALLED PER THE APPROVED SPECIFICATIONS.
6. JOINTS SHALL BE PROTECTED WITH GRANULAR STONE AND COMPACTED IN SIX INCH LIFTS FOR ALL STIFFED JOINTS AND PLACING JOINT AND ALL OTHER JOINTS AND JOINTS. THE JOINTS SHALL BE INSTALLED PER THE APPROVED SPECIFICATIONS.
7. WHEN RESTAINED JOINT REINFORCEMENT AT ALL VALVES, FITTINGS AND DEAD ENDS. JOINTS SHALL BE PROTECTED WITH GRANULAR STONE AND COMPACTED IN SIX INCH LIFTS FOR ALL STIFFED JOINTS AND PLACING JOINT AND ALL OTHER JOINTS AND JOINTS. THE JOINTS SHALL BE INSTALLED PER THE APPROVED SPECIFICATIONS.
8. PRE-CAST JOINTS SHALL BE PROTECTED WITH GRANULAR STONE AND COMPACTED IN SIX INCH LIFTS FOR ALL STIFFED JOINTS AND PLACING JOINT AND ALL OTHER JOINTS AND JOINTS. THE JOINTS SHALL BE INSTALLED PER THE APPROVED SPECIFICATIONS.
9. WATER MAINS MAY NOT BE INSTALLED UNDER SIDEWALKS, WALKWAYS, DRIVEWAYS OR ROADWAYS.
10. AFTER LAYING JOINTS ON JOINT REINFORCEMENT - MECHANICAL JOINT AND JOINT REINFORCEMENT SHALL BE INSTALLED PER THE APPROVED SPECIFICATIONS.
11. JOINTS SHALL BE PROTECTED WITH GRANULAR STONE AND COMPACTED IN SIX INCH LIFTS FOR ALL STIFFED JOINTS AND PLACING JOINT AND ALL OTHER JOINTS AND JOINTS. THE JOINTS SHALL BE INSTALLED PER THE APPROVED SPECIFICATIONS.
12. JOINTS SHALL BE PROTECTED WITH GRANULAR STONE AND COMPACTED IN SIX INCH LIFTS FOR ALL STIFFED JOINTS AND PLACING JOINT AND ALL OTHER JOINTS AND JOINTS. THE JOINTS SHALL BE INSTALLED PER THE APPROVED SPECIFICATIONS.
13. JOINTS SHALL BE PROTECTED WITH GRANULAR STONE AND COMPACTED IN SIX INCH LIFTS FOR ALL STIFFED JOINTS AND PLACING JOINT AND ALL OTHER JOINTS AND JOINTS. THE JOINTS SHALL BE INSTALLED PER THE APPROVED SPECIFICATIONS.
14. JOINTS SHALL BE PROTECTED WITH GRANULAR STONE AND COMPACTED IN SIX INCH LIFTS FOR ALL STIFFED JOINTS AND PLACING JOINT AND ALL OTHER JOINTS AND JOINTS. THE JOINTS SHALL BE INSTALLED PER THE APPROVED SPECIFICATIONS.

11011E
CALL 2 WORKING DAYS BEFORE YOU DIG

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OF 15 DATE NOVEMBER 12, 2015	SHEETS	9	JOB NUMBER 15015.01		SEAL	PROJECTS <i>plus</i> GREENWOOD SURVEYING COMPANY CIVIL ENGINEERING - LAND SURVEYING LAND PLANNING - CONSTRUCTION MANAGEMENT 2555 Fairview Place Suite A - Greenwood, Indiana 46142 (317)-882-5003	PROJECT DEER MEADOWS - SECTION ONE CITY OF FRANKLIN, JOHNSON COUNTY, INDIANA	SCALE 1"=50'	SYMBOL	REVISION	DATE
							TITLE WATER DISTRIBUTION PLAN	DRAWN JPH			
							CHECKED JKS				
							CERTIFIED JKS				

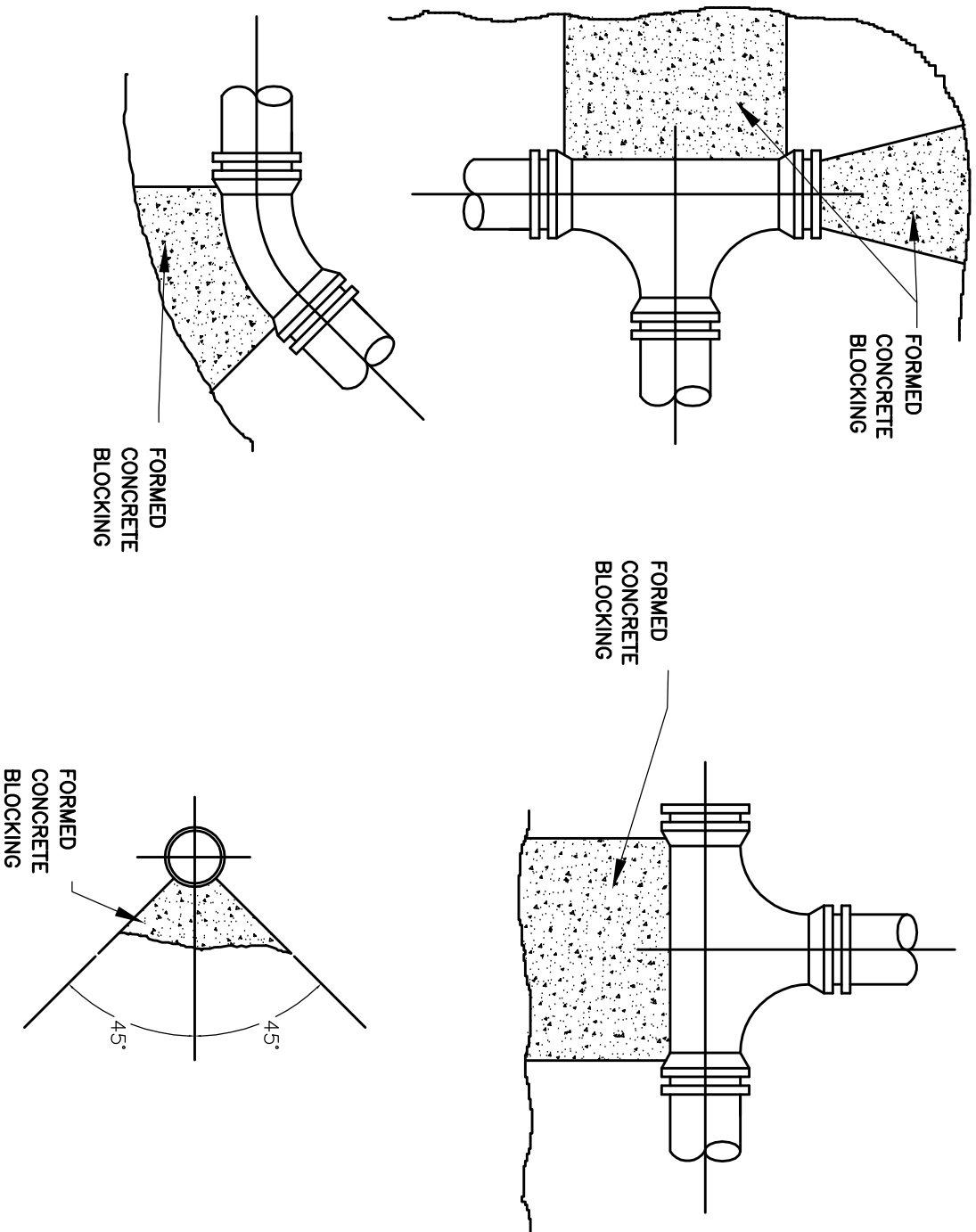


TO SPAN CHIMNEY HEADING OF:
 0'-4"
 4'-5" TO 5'-4"
 5'-5" TO 7'-4"
 OVER 7'-4" TO 13'-0"

STD CHIMNEY SEAL ONLY
 STD. SEAL + 7" EXTENSION
 WIDE SEAL + 7" EXTENSION

NOTE: EXTERIOR SEAL IS ALSO ACCEPTABLE

TYPICAL CHIMNEY SEAL DETAIL

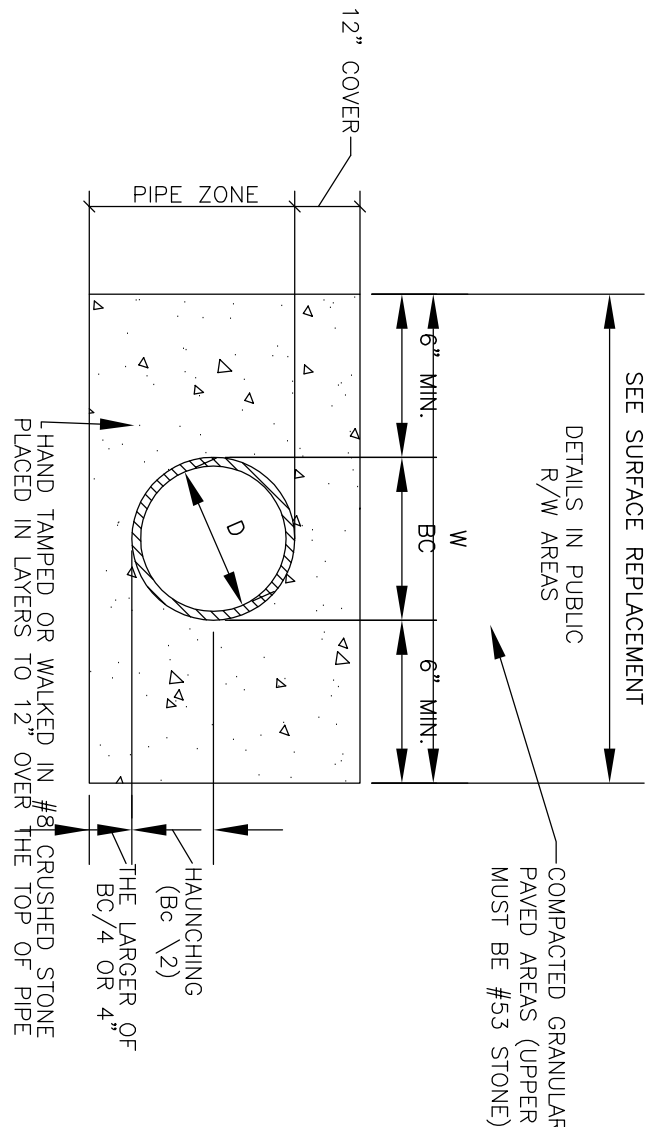
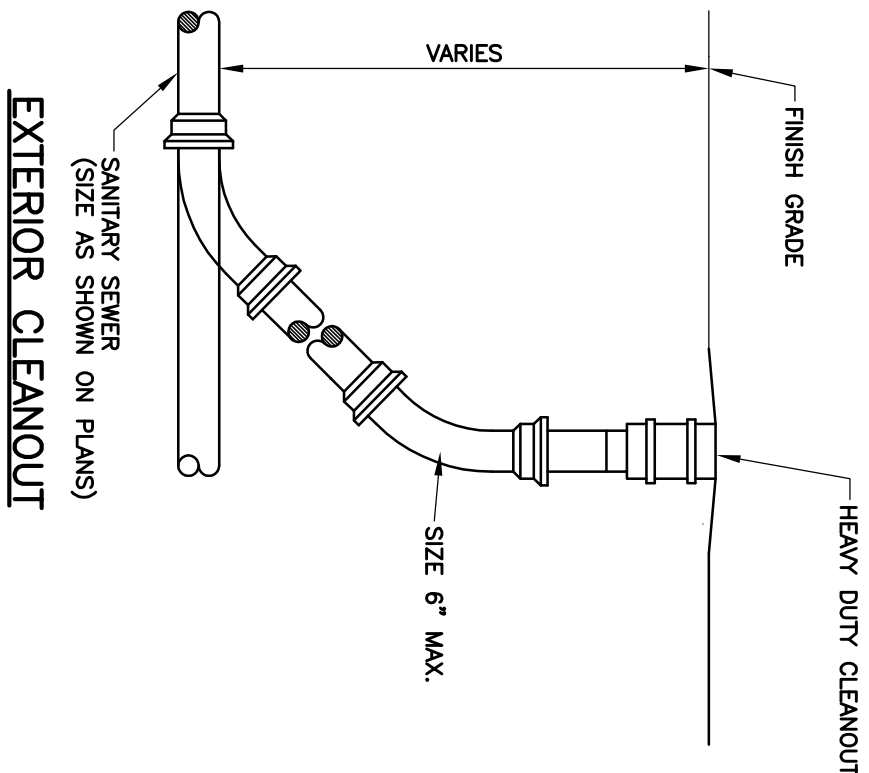


AREA IN SQ. FT. REQUIRED FOR CONC. THRUST BLOCKING

TEE & PLUG	90° BEND	45° BEND	PA 1/2" 1 1/4"	1 1/4" BEND
4"	2.0	2.5	1.5	1.0
6"	4.0	5.5	3.0	1.5
8"	6.5	9.0	5.0	2.5
10"	10.0	14.0	7.5	4.0
12"	14.0	20.0	11.0	5.5
				3.0

NOTE:
 THE THRUST BLOCK AREAS ARE BASED ON A SOIL BEARING LOAD OF 2000 LBS./SQ. FT. GREASE ALL PIPE SURFACES PRIOR TO PLACEMENT OF CONCRETE.

THRUST BLOCKING DETAILS FOR FORCE MAIN



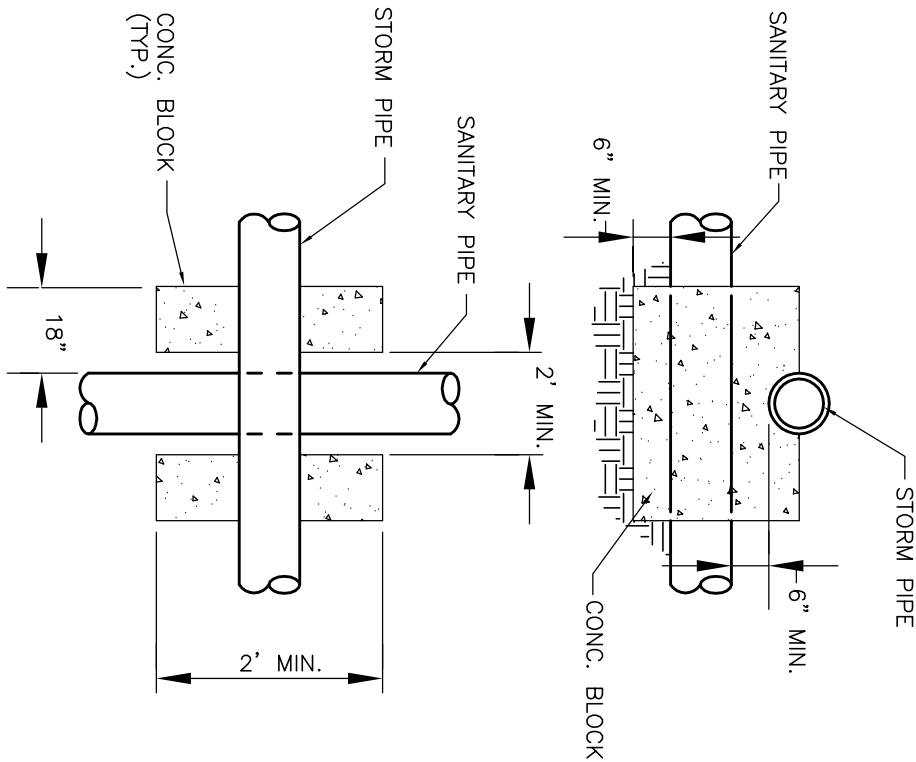
W = MAXIMUM ALLOWABLE TRENCH WIDTH FOR PIPE ASTM NOT TO EXCEED FOUR (4) FEET OR 8" THROUGH 24" PIPE
 D = PIPE DIAMETER (INTERNAL)
 B= PIPE DIAMETER (EXTERNAL)

NOTES

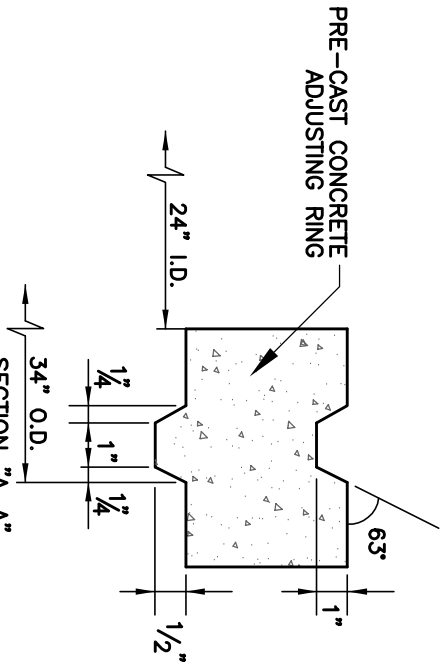
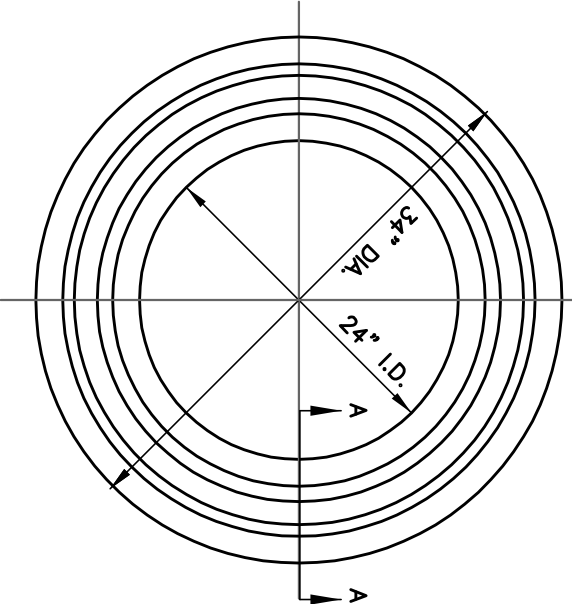
1. BEDDING STOPS AT A POINT 12" ABOVE THE TOP OF THE PIPE. BACKFILLING ABOVE THIS POINT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
2. WORK FALLING UNDER JURISDICTION OF THE INDIANA STATE HIGHWAY DEPARTMENT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS FOR INITIAL AND FINAL BACKFILL ANYWHERE WITHIN 12 FEET OF THE EDGE OF THE ROADWAY. ALL OTHER AREAS SHALL BE UNDER THE JURISDICTION OF THE LOCAL GOVERNMENT. BACKFILL SHALL BE USED UNDER PAVEMENT SURFACES OR OTHER SPECIFICALLY DESIGNATED AREAS.

FITST CLASS PIPE LAYING METHOD FOR:

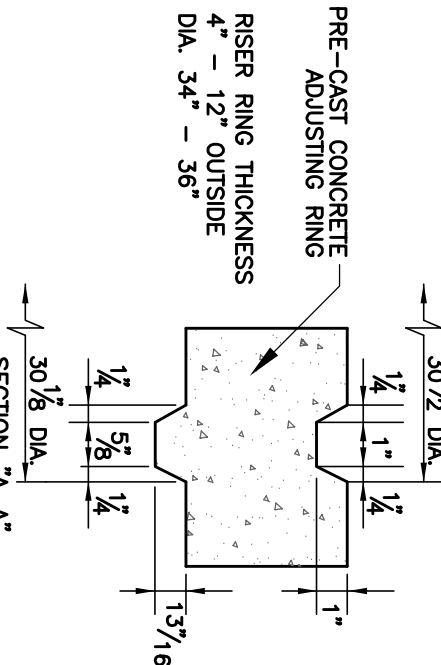
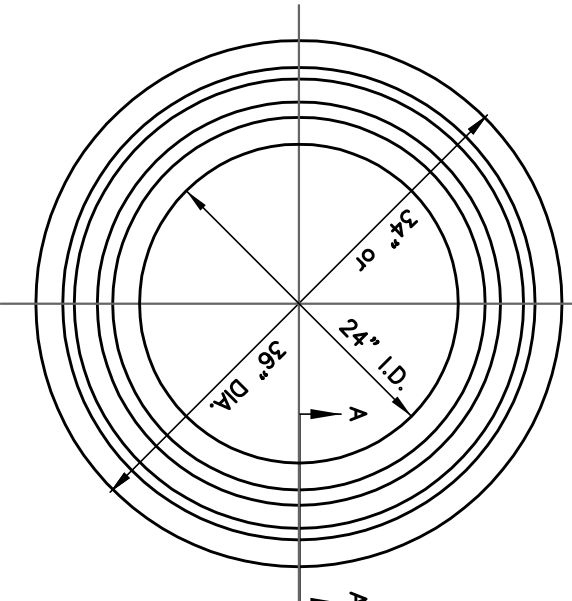
- 1) FLEXIBLE (PVC, RPVC, ABS & HDPE PIPE) AND
- 2) DUCTILE IRON WITHIN PMT LIMITS



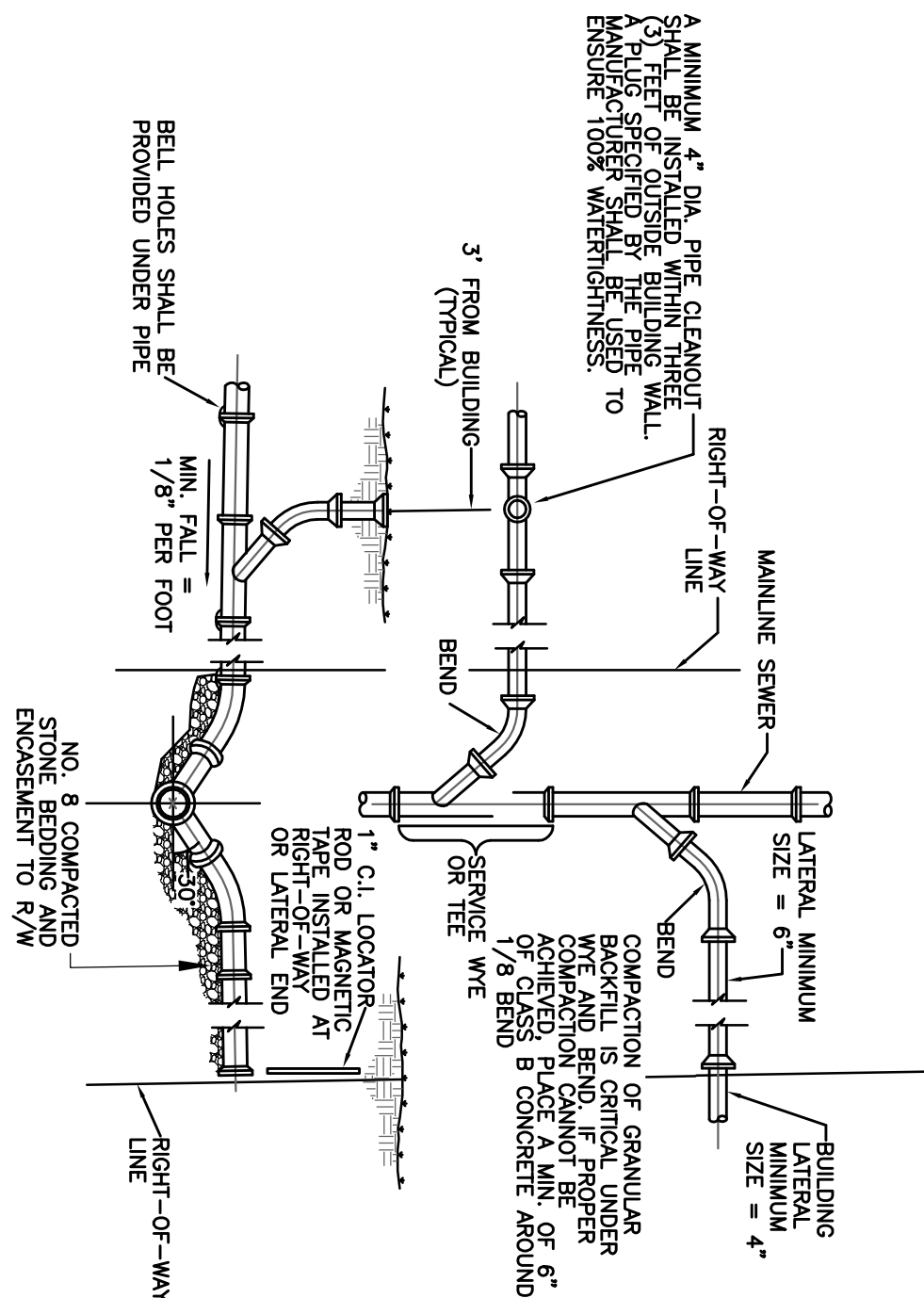
CONCRETE GRADE



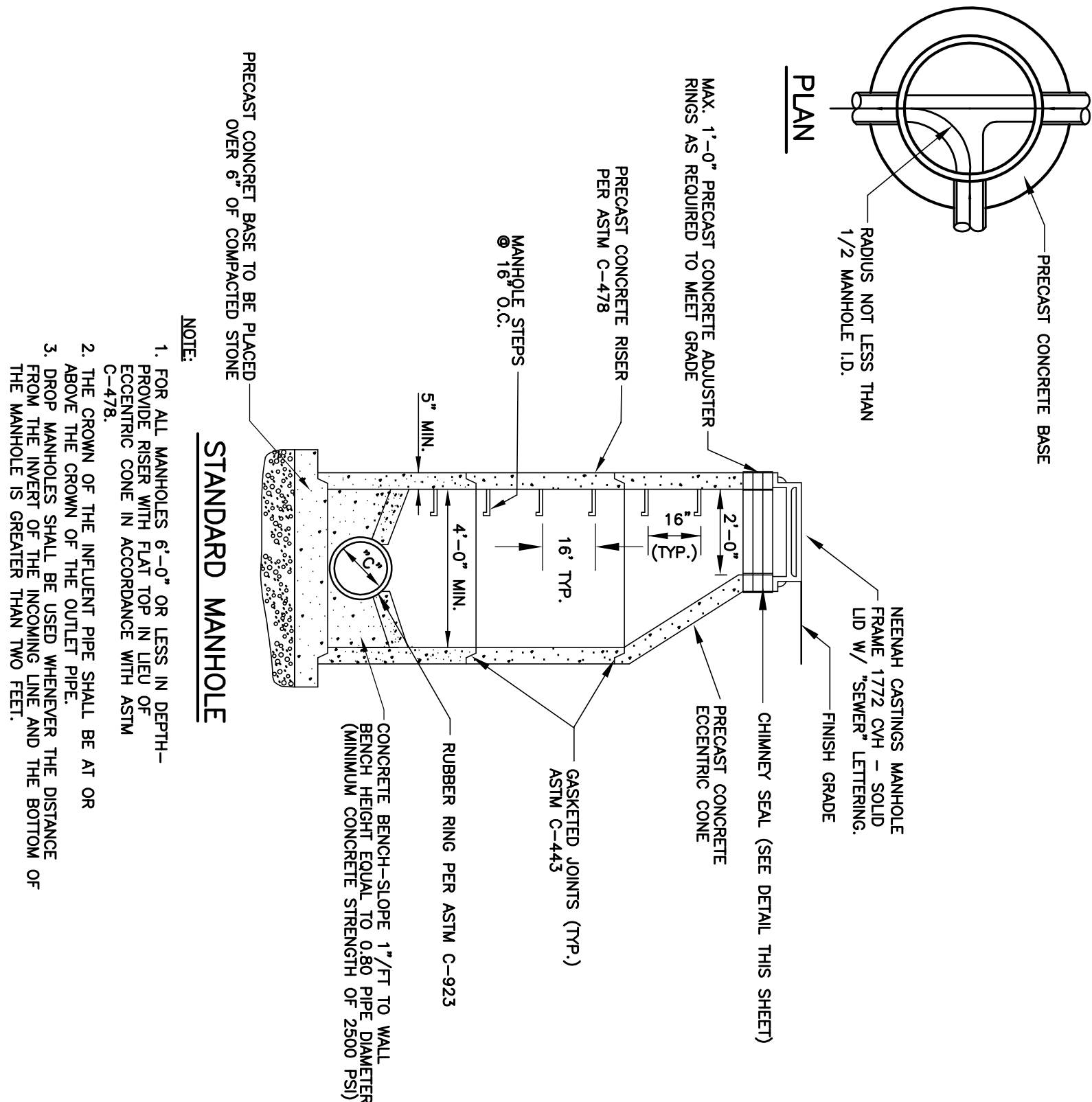
TYPICAL 1" ADJUSTING RING DETAIL



TYPICAL 5/8" ADJUSTING RING DETAIL

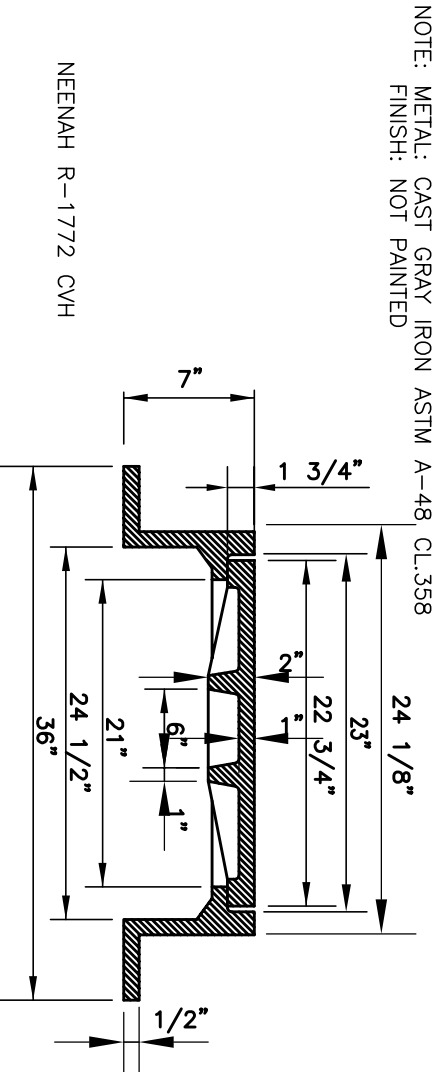


SERVICE CONNECTION FOR SHALLOW SEWERS
 (LESS THAN 15' DEEP)



STANDARD MANHOLE

- NOTE:
1. FOR ALL MANHOLES 6'-0" OR LESS IN DEPTH- PROVIDE RISER WITH FLAT TOP IN LIEU OF ECCENTRIC CONE IN ACCORDANCE WITH ASTM C-443.
 2. THE CROWN OF THE INFLUENT PIPE SHALL BE AT OR ABOVE THE CROWN OF THE OUTLET PIPE.
 3. DROP MANHOLES SHALL BE USED WHENEVER THE DISTANCE FROM THE INVERT OF THE INCOMING LINE AND THE BOTTOM OF THE MANHOLE IS GREATER THAN TWO FEET.



SANITARY SEWER MANHOLE

FRAME & COVER - STANDARD MANHOLE DETAIL

DATE

REVISION	SYMBOL

SCALE
NONE
DRAWN
JPH
CHECKED
JKS
CERTIFIED
JKS

PROJECT
DEER MEADOWS - SECTION ONE CITY OF FRANKLIN, JOHNSON COUNTY, INDIANA
TITLE
SANITARY SEWER DETAILS

PROJECTS plus

GREENWOOD SURVEYING COMPANY

CIVIL ENGINEERING LAND SURVEYING
 LAND PLANNING CONSTRUCTION MANAGEMENT
 2555 Fairview Place Suite 14 Greenwood, Indiana 46142
 (317)-882-5003

SEAL

19419
 11/2/15
 PROFESSIONAL ENGINEER

JOB NUMBER
15015.01
SHEET
12

OF
15
DATE
NOVEMBER 12, 2015
SHEETS

