

Request for Proposals – Owner’s Representation Services for Public Works Building
Town of Clarksville, IN – Redevelopment Commission (RDC)

Invitation

The Town of Clarksville is requesting proposals for the services of an Owner’s Rep for the Clarksville Public Works Building Project at 701 Clark Boulevard (Brown’s Station Way), Clarksville, IN 47129. This project involves the construction of an office building, salt barn, chemical/oil storage, truck storage (covered), and a fabrication/metal shop (“the buildings”), roads and parking, and other necessary site improvements constituting a functional and aesthetically pleasing \$7.2M Public Works building. A summary of the project, services requested, submission requirements and selection process are included herein.

Background

The project is being built via the Build-Operate-Transfer (BOT) process and the RDC has awarded the contract to GM Development Companies LLC (GMDC), a company who has completed several of these types of projects throughout the state of Indiana. GM Development Companies has been working on the site since late Spring of 2020 and has completed the majority, if not all, of the subsurface work including concrete footers of the main buildings. Vertical construction has not started. The Owner’s Rep will primarily be overseeing vertical construction of the site. The project’s tentative completion date is December 2021.

Construction Plans are attached as Exhibit A.

Services Required:

The RDC’s Owner’s Rep for this project should expect to (at minimum) observe construction and progress biweekly, attend construction progress meetings, review pay applications, review program and drawings with end users prior to and during construction, and coordinate with GMDC, Town Staff, utilities, and other project members to meet construction deadlines and ensure building integrity and safety. Owner’s Rep will be required to give monthly progress update to the Redevelopment Commission at their regularly scheduled meeting.

Submittal Requirements

Digital Copy to be sent to Redevelopment Director Nic Langford at nlangford@townofclarksville.com by Thursday, May 6th at 5pm EST. *Documents received following that date and time will not be considered.*

The submittal shall include the following components, submitted in this order. The total submission shall not exceed 10 pages.

1. Cover Letter
2. Firm Background –
 - Include lines of service, general approach to projects
3. Project Team
 - Include brief resume for each team member including their role in the project and date of employment
 - Include client's main point of contact
 - Identify percentage of time each individual will commit to the project
 - Identify hourly rate of each individual
4. Similar Projects Completed
 - This should document the firm's experience as an Owner's Rep or similar function on similar projects
5. References
 - Provide a minimum of three client references with contact information
6. Project Approach - This should include responses to the following:
 - Indicate firm's approach to managing projects
7. Price Proposal
8. Acknowledgements
 - Acknowledge firm capacity to complete this project

Selection Process

The following is a summary of the review/selection process:

- Upon receipt of submissions, the Town's evaluation committee consisting of the Town Manager, Street Commissioner, and Redevelopment Director will review proposals
- Evaluation Committee may interview short-list candidates
- Evaluation Committee is scheduled to award contract by May 24th, 2021 or earlier but is under no obligation to do so and reserves the right to reject any and all proposals for any reason
- At the interview, Town's expectation is to meet with the actual project manager.

- The evaluation criteria for the project is as follows:

Evaluation Criteria	Weight (100 total)	Score (1 lowest, 10=highest)	Weighted Score
General Experience and Qualifications	15		
Owner's Rep Experience	15		
Experience with Similar Projects	20		
Experience of Project Team	15		
Local Preference	5		
Compliance with RFP	5		
Fees	20		
TOTAL			

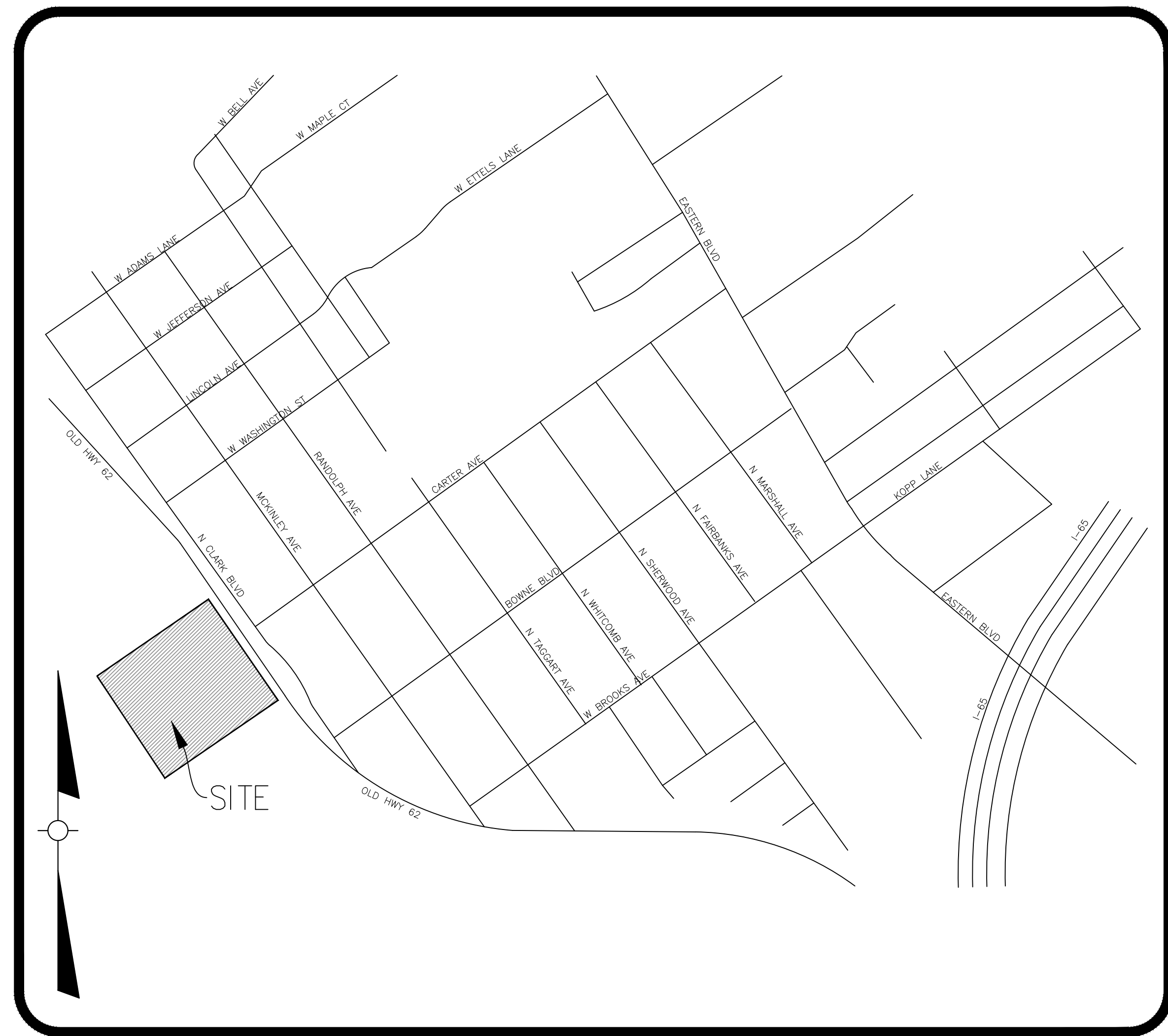
Questions and Clarifications

In order to provide an equal opportunity to meet and communicate with the evaluation committee in accordance with state statute, the Town will only answer written questions submitted by email during the RFP period. Verbal inquiries shall not be made to Town or selection committee representatives.

Questions shall be submitted to:

Nic Langford, Redevelopment Director, Town of Clarksville
nlangford@townofclarksville.com
 Subject Line: "Owner's Rep RFP – PW Building"

CONSTRUCTION PLANS
for
TOWN OF CLARKSVILLE
PUBLIC WORKS FACILITY
1 LEUTHART DRIVE
CLARKSVILLE, IN 47129



Sheet List Table	
Sheet Number	Sheet Title
C1.0	CIVIL INFORMATION
C2.0	DEMOLITION PLAN
C3.0	LAYOUT PLAN
C4.0	UTILITY PLAN
C5.0	STORM DRAINAGE PLAN
C5.1	PIPE CHART
C6.0	PAVING AND STRIPING PLAN
C7.0	GRADING PLAN
C8.0	COMPOSITE DRAINAGE PLAN
ER-1	EROSION CONTROL PLAN
ER-2	EROSION CONTROL DETAILS
C9.0	DETAIL SHEET
C9.1	DETAIL SHEET
LS-1	LANDSCAPE PLAN

db tarr
& company
 3728 W. Co. Rd. 175 S.
 French Lick, IN 47432
 dbtarr@yahoo.com
 812.278.0060



NOT FOR
CONSTRUCTION

Town of Clarksville
Public Works Facility
1 Leuthart Drive
Clarksville, IN 47129

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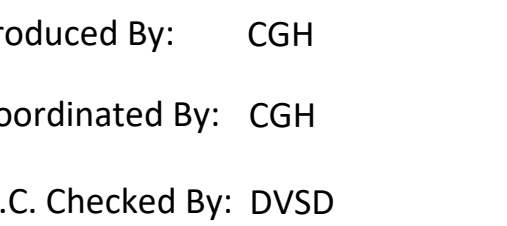
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Revision	Date	Description	Detailed By	Chk'd By	Approved By

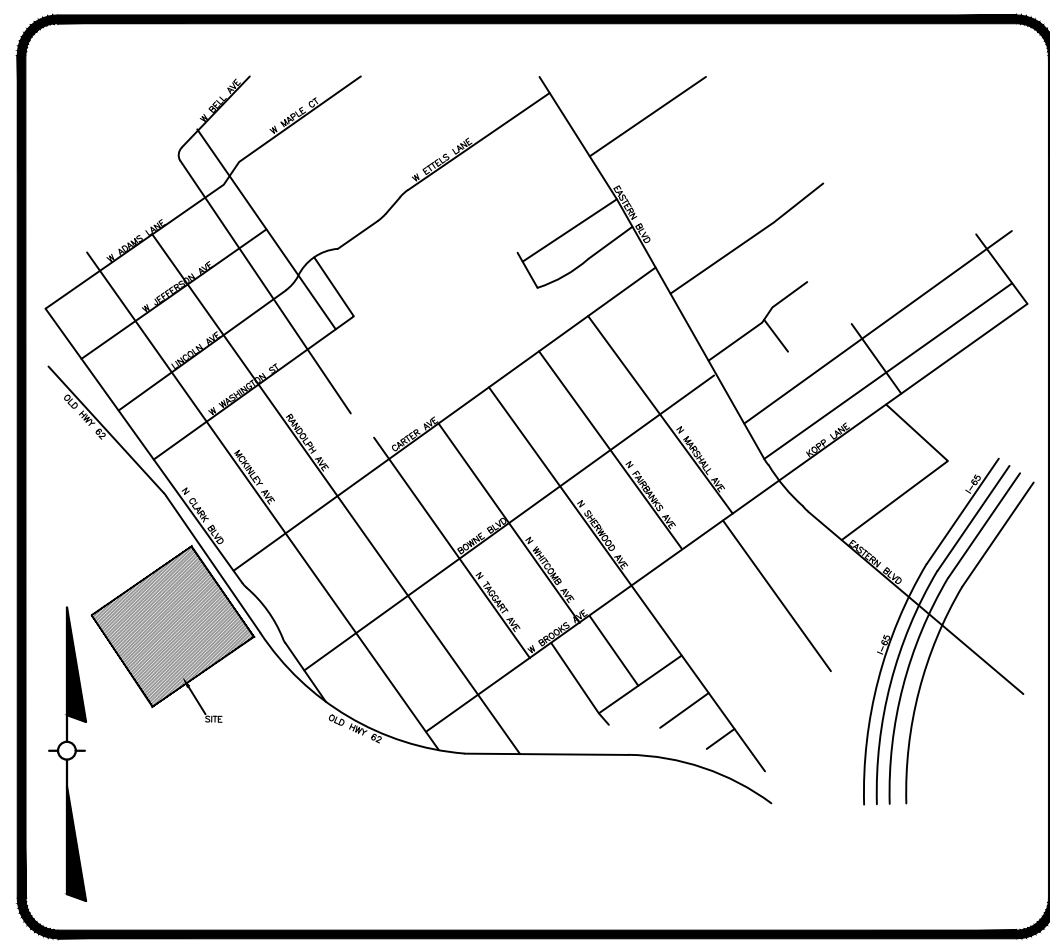




Town of Clarksville
Public Works Facility
1 Leuthart Drive
Clarksville, IN 47129



C2.0



EX. FIRE HYDRANT
EX. LIGHT POLE
EX. POWER POLE
EX. SIGN
EX. WATER VALVE
EX. GAS VALVE
EX. IRRIGATION VALVE
EX. GAS METER
EX. WATER METER
EX. ELECTRIC METER
EX. TRANSFORMER
EX. TELEPHONE PEDestal
EX. MONITORING WELL
EX. TELEPHONE MANHOLE
EX. ELECTRIC MANHOLE
EX. SANITARY SEWER
EX. DRAINAGE MANHOLE
EX. WELL
EX. DRILL HOLE
EX. 4" PSC
EX. 6" PSC
EX. CATCH BASIN TYPE
EX. CATCH BASIN TYPE
EX. DOWN SPOUT
EX. CLEAN OUT
EX. TEST PIT
EX. WATER SHUTOFF
EX. CUYRWire
EX. GALBBOX
EX. BOLLARD
EX. SHRUB
EX. TREE
EX. TREE TO BE REMOVED

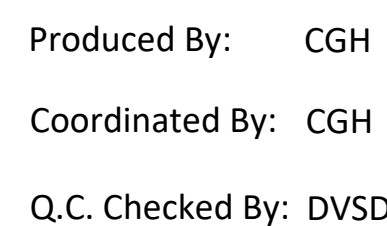
 PROPOSED
 EXISTING
 DO NOT DISTURB
 TO BE REMOVED
 FINISHED FLOOR ELEVATION
 TOP OF GRATE
 TOP OF LID
 INVERT ELEVATION
 PROPERTY SERVICE CONNECTION
 MANHOLE
 STORM MANHOLE
 SANITARY MANHOLE
 JUNCTION BOX
 CATCH BASIN
 TEMPORARY BENCHMARK
 RIGHT OF WAY
 PROPERTY LINE
 BUILDING
 LANDSCAPE BUFFER AREA
 PROPOSED PARKING COUNTS
 EXISTING PARKING COUNTS
 LIMITS OF DISTURBANCE

EX. EDGE OF PAVEMENT
 EX. CURB
 EX. SIDEWALK
 EX. SHOULDER
 EX. EASEMENT
 EX. WATER LINE
 EX. GAS LINE
 EX. FENCE
 EX. FIBER OPTIC LINE
 EX. OVERHEAD ELECTRIC LINE
 EX. OVERHEAD TELEPHONE LINE
 EX. OVERHEAD TELEPHONE LINE
 EX. PROPERTY SERVICE CONNECTION
 EX. RIGHT-OF-WAY
 EX. PROPERTY LINE
 EX. ELECTRIC LINE
 EX. GAS LINE
 EX. LANDFILL BUFFER LINE
 EX. SWALE
 EX. TREE LINE
 EX. 25' BUFFER MINOR CONTOUR
 EX. STORM SEWER
 EX. SANITARY SEWER
 EX. BUILDING
 EX. CONCRETE
 EX. TRACKS
 EX. FLOOD SETBACK LINE
 EX. PROPERTY LINE TO BE REVEALED
 EX. 25' BUFFER AREA FOR BUILDING FORM DISTRICT TRANSITION
 EX. SPOT ELEVATION
 AREA TO BE CLEARED AND DEMOLISHED

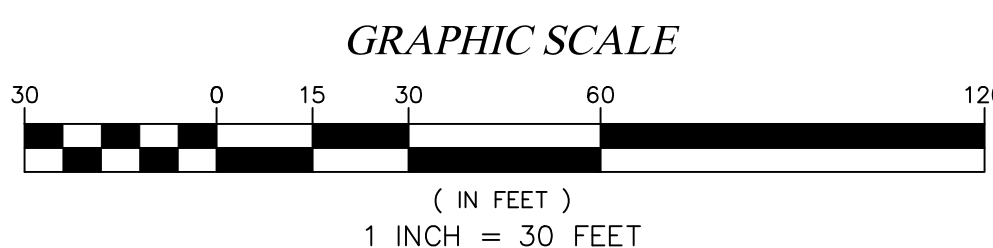
- 1) THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE PROPERTY'S UTILITY COMPANIES.
- 2) ABANDON, REMOVE OR RELOCATE EX. UTILITIES, WHICH WILL INTERFERE WITH THE NEW CONSTRUCTION. COORDINATE WITH UTILITY COMPANIES.
- 3) REMOVE ALL OTHER OBSTRUCTIONS AS REQUIRED WITHIN THE DEVELOPED AREA.
- 4) THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION.
- 5) NO TREES ARE TO BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS SHOWN ON PLAN AND ONLY AS APPROVED BY OWNER'S REPRESENTATIVE.
- 6) THE CONTRACTOR IS TO PROVIDE THE NECESSARY PROTECTION, IN ACCORDANCE WITH THE SPECIFICATIONS, TO PREVENT DAMAGE TO EXISTING OR STORED HEAVY EQUIPMENT, ROLL OVER OR STORE MATERIALS WITHIN THE DRILPINES OF TREES OUTSIDE THE LIMITS OF GRADING OR WITHIN THE DRILPINES OF TREES TO REMAIN.
- 7) SHOULD THE DRILPINE OF A TREE FALL WITHIN THE LIMITS OF CONSTRUCTION BUT STILL BE PROPOSED TO REMAIN, IT SHALL BE CONSIDERED PRESERVED BUT NOT SAVED. EVERY EFFORT TO PRESERVE THE TREE SHOULD BE MADE.
- 8) CONSTRUCTION FENCING SHALL BE ERECTED AT THE EDGE OF THE AREA OF DEVELOPMENT PRIOR TO ANY CONSTRUCTION. FENCING SHALL BE MAINTAINED THROUGHOUT THE PROJECT. FENCING SHALL BE OF 4' TALL COMPACTED. THE FENCING SHALL ENCLOSE THE ENTIRE AREA BENEATH THE TREE CANOPY AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETED. NO PARKING, MATERIAL STORAGE, OR CONSTRUCTION ACTIVITIES ARE PERMITTED WITHIN THE FENCED AREA.
- 9) IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO PERFORM ALL ENVIRONMENTAL SITE ASSESSMENTS AND PROPERLY REMEDIATE AND DISPOSE OF ANY HAZARDOUS MATERIALS ENCOUNTERED WITHIN EXISTING STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NOTIFIED TO, ASSESSMENTS, ALL FEDERAL, STATE AND LOCAL ABATEMENT REGULATIONS SHALL BE FOLLOWED.
- 11) ALL EPC MEASURES SHALL BE INSTALLED PRIOR TO DEMOLITION OF ANY KIND. (SEE SHEET EPI)
- 12) SHOULD THE CONTRACTOR DAMAGE EXISTING CONDITIONS OUTSIDE OF THE LIMITS OF DISTURBANCE BOUNDARIES THE COST FOR ALL REPAIRS SHALL BE BORNE BY THE CONTRACTOR.
- 13) REFER TO THE GEOTECHNICAL REPORT PREPARED BY EGS SOUTHEAST, DATED JULY 24, 2019.

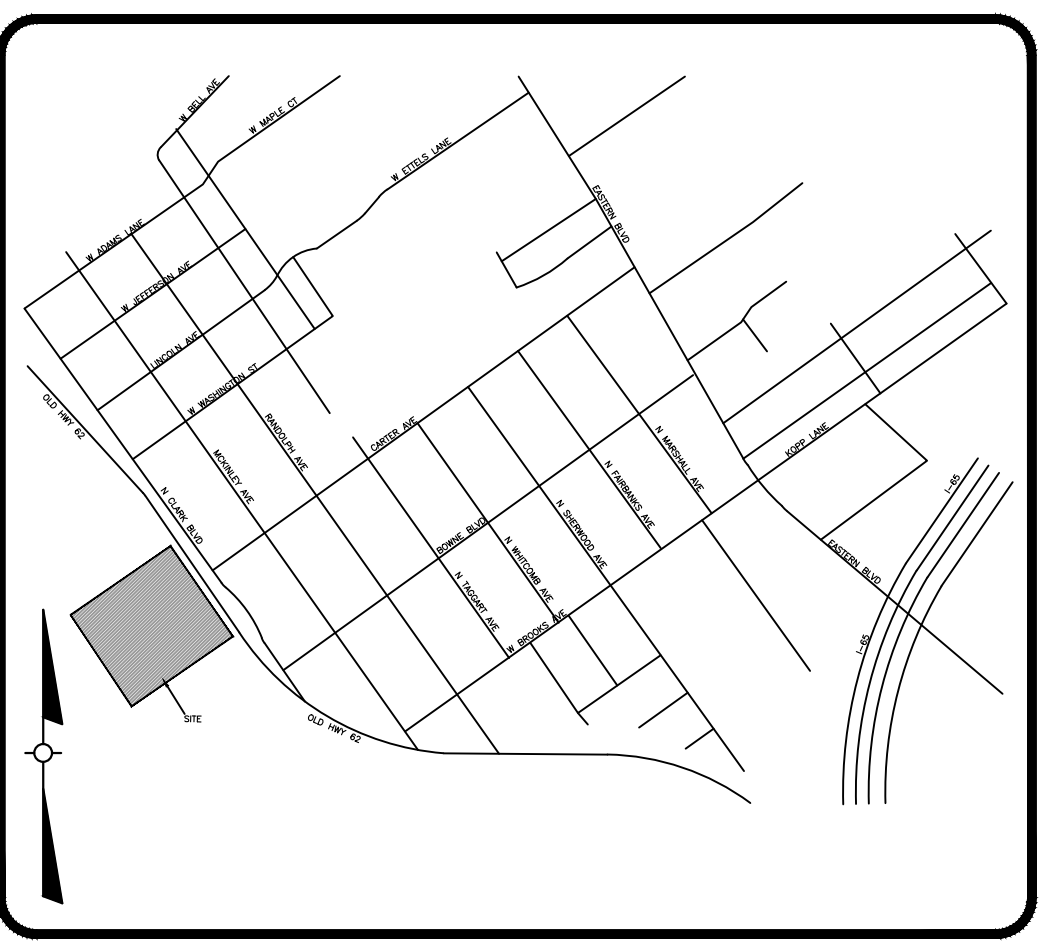
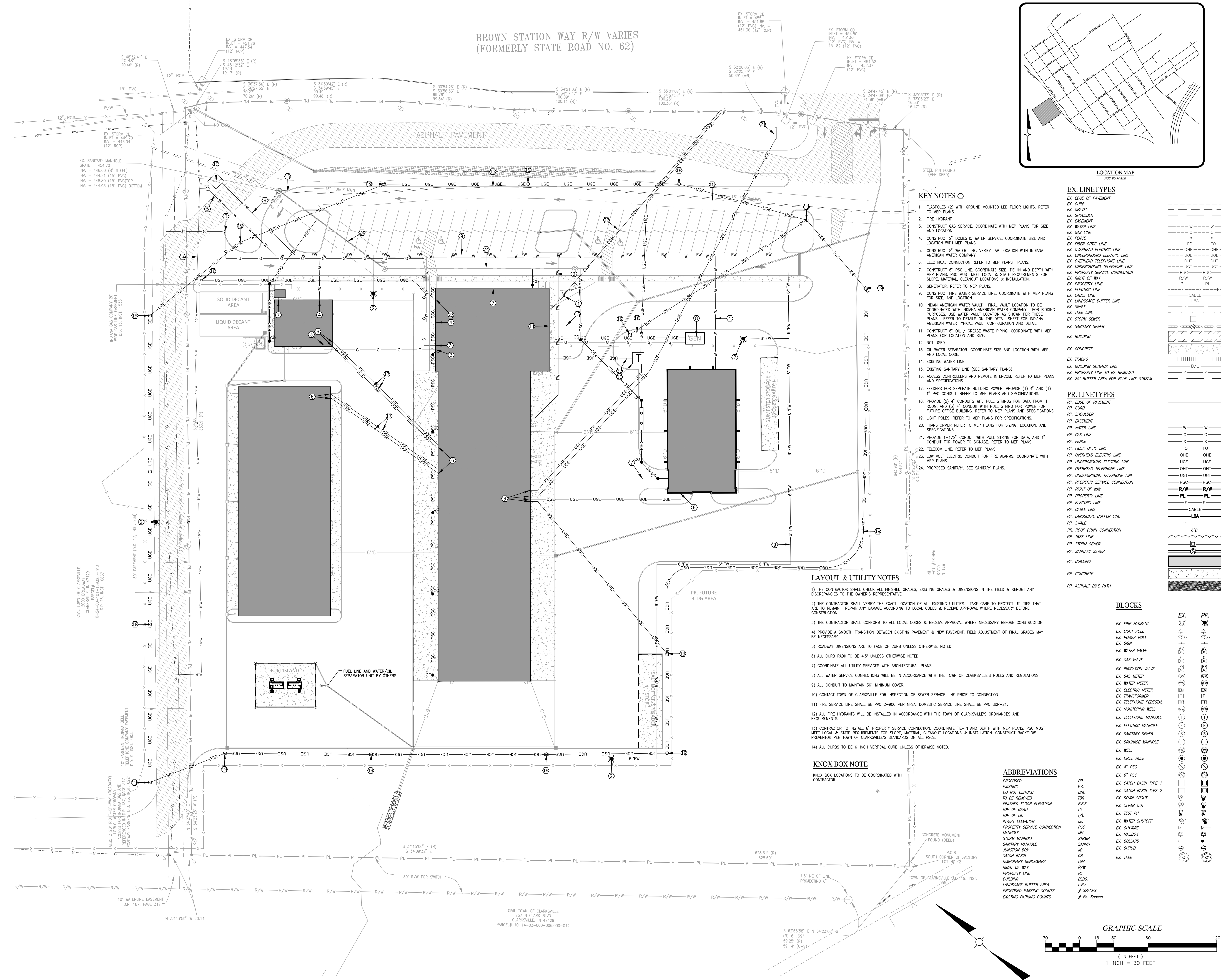


Town of Clarksville
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1 Leuthart Drive
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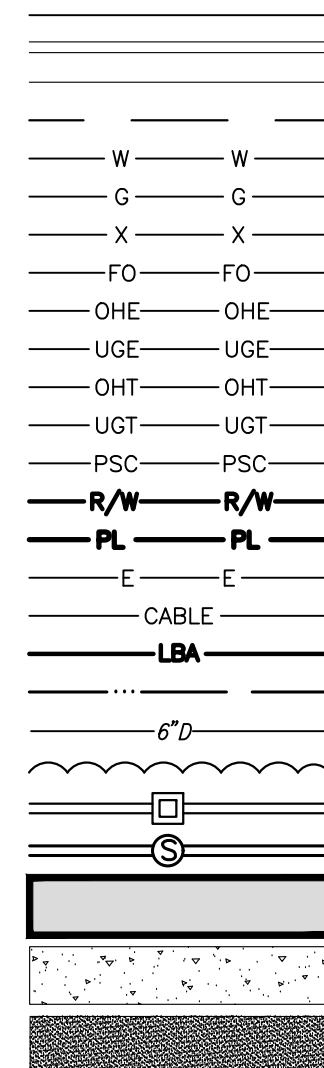
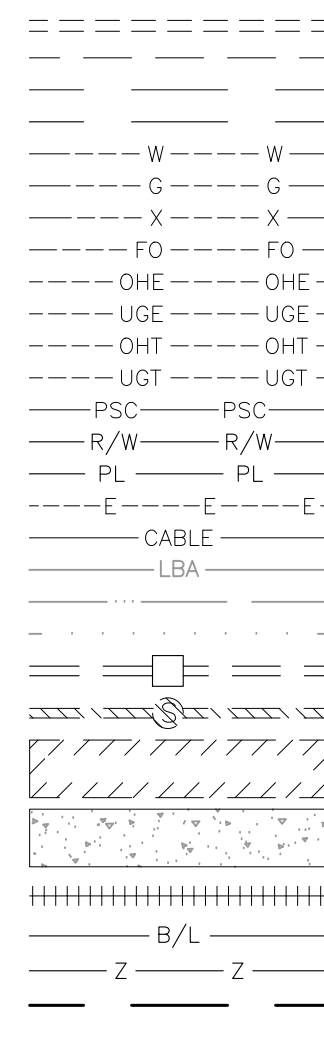


EX. LINETYPES

- EX. EDGE OF PAVEMENT
- EX. CURB
- EX. SHOULDER
- EX. EASEMENT
- EX. WATER LINE
- EX. GAS LINE
- EX. FENCE
- EX. FIBER OPTIC LINE
- EX. OVERHEAD ELECTRIC LINE
- EX. UNDERGROUND ELECTRIC LINE
- EX. OVERHEAD TELEPHONE LINE
- EX. UNDERGROUND TELEPHONE LINE
- EX. PROPERTY SERVICE CONNECTION
- EX. RIGHT OF WAY
- EX. PROPERTY LINE
- EX. ELECTRIC LINE
- EX. CABLE LINE
- EX. LANDSCAPE BUFFER LINE
- EX. SWALE
- EX. TREE LINE
- EX. STORM SEWER
- EX. SANITARY SEWER
- EX. BUILDING
- EX. CONCRETE
- EX. TRACKS
- EX. BUILDING SETBACK LINE
- EX. PROPERTY LINE TO BE REMOVED
- EX. 25' BUFFER AREA FOR BLUE LINE STREAM

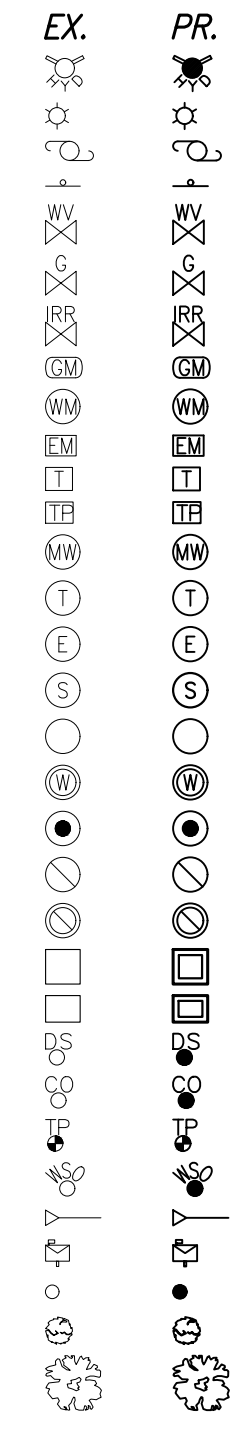
PR. LINETYPES

- PR. EDGE OF PAVEMENT
- PR. CURB
- PR. SHOULDER
- PR. EASEMENT
- PR. WATER LINE
- PR. GAS LINE
- PR. FENCE
- PR. FIBER OPTIC LINE
- PR. OVERHEAD ELECTRIC LINE
- PR. UNDERGROUND ELECTRIC LINE
- PR. OVERHEAD TELEPHONE LINE
- PR. UNDERGROUND TELEPHONE LINE
- PR. PROPERTY SERVICE CONNECTION
- PR. RIGHT OF WAY
- PR. PROPERTY LINE
- PR. ELECTRIC LINE
- PR. CABLE LINE
- PR. LANDSCAPE BUFFER LINE
- PR. SWALE
- PR. ROOF DRAIN CONNECTION
- PR. TREE LINE
- PR. STORM SEWER
- PR. SANITARY SEWER
- PR. BUILDING
- PR. CONCRETE
- PR. ASPHALT BIKE PATH



BLOCKS

- EX. FIRE HYDRANT
- EX. LIGHT POLE
- EX. POWER POLE
- EX. SIGN
- EX. WATER VALVE
- EX. GAS VALVE
- EX. IRRIGATION VALVE
- EX. GAS METER
- EX. WATER METER
- EX. ELECTRIC METER
- EX. TRANSFORMER
- EX. TELEPHONE PEDESTAL
- EX. MONITORING WELL
- EX. TELEPHONE MANHOLE
- EX. ELECTRIC MANHOLE
- EX. SANITARY SEWER
- EX. DRAINAGE MANHOLE
- EX. WELL
- EX. DRILL HOLE
- EX. 4" PSC
- EX. 6" PSC
- EX. CATCH BASIN TYPE 1
- EX. CATCH BASIN TYPE 2
- EX. DOWN SPOUT
- EX. CLEAN OUT
- EX. TEST PIT
- EX. WATER SHUTOFF
- EX. GUYWIRE
- EX. MAILBOX
- EX. BOLLARD
- EX. SHARUB
- EX. TREE



KEY NOTES

1. FLAGPOLES (2) WITH GROUND MOUNTED LED FLOOR LIGHTS. REFER TO MEP PLANS.
2. FIRE HYDRANT
3. CONSTRUCT GAS SERVICE. COORDINATE WITH MEP PLANS FOR SIZE AND LOCATION.
4. CONSTRUCT 2" DOMESTIC WATER SERVICE. COORDINATE SIZE AND LOCATION WITH MEP PLANS.
5. CONSTRUCT 8" WATER LINE. VERIFY TAP LOCATION WITH INDIANA AMERICAN WATER COMPANY.
6. ELECTRICAL CONNECTION REFER TO MEP PLANS.
7. CONSTRUCT 6" PSC LINE. COORDINATE SIZE, TIE-IN AND DEPTH WITH MEP PLANS. PSC MUST MEET LOCAL & STATE REQUIREMENTS FOR SLOPE, MATERIAL, CLEANOUT LOCATIONS & INSTALLATION.
8. GENERATOR. REFER TO MEP PLANS.
9. CONSTRUCT FIRE WATER SERVICE LINE. COORDINATE WITH MEP PLANS FOR SIZE, AND LOCATION.
10. INDIAN AMERICAN WATER VAULT. FINAL VAULT LOCATION TO BE COORDINATED WITH INDIAN AMERICAN WATER COMPANY. FOR BIDDING PURPOSES, USE WATER VAULT LOCATION AS SHOWN FOR THESE PLANS. REFER TO DETAILS ON THE DETAIL SHEET FOR INDIAN AMERICAN WATER TYPICAL VAULT CONFIGURATION AND DETAIL.
11. CONSTRUCT 6" OIL / GREASE WASTE PIPING. COORDINATE WITH MEP PLANS FOR LOCATION AND SIZE.
12. NOT USED
13. OIL WATER SEPARATOR. COORDINATE SIZE AND LOCATION WITH MEP, AND LOCAL CODE.
14. EXISTING WATER LINE.
15. EXISTING SANITARY LINE (SEE SANITARY PLANS)
16. ACCESS CONTROLLERS AND REMOTE INTERCOM. REFER TO MEP PLANS AND SPECIFICATIONS.
17. FEEDERS FOR SEPARATE BUILDING POWER. PROVIDE (1) 4" AND (1) 1" PVC CONDUIT. REFER TO MEP PLANS AND SPECIFICATIONS.
18. PROVIDE (2) 4" CONDUITS WITH PULL STRINGS FOR DATA FROM IT ROOM, AND (3) 4" CONDUIT WITH PULL STRING FOR POWER FOR FUTURE OFFICE BUILDING. REFER TO MEP PLANS AND SPECIFICATIONS.
19. LIGHT POLES. REFER TO MEP PLANS FOR SPECIFICATIONS.
20. TRANSFORMER REFER TO MEP PLANS FOR SIZING, LOCATION, AND SPECIFICATIONS.
21. PROVIDE 1-1/2" CONDUIT WITH PULL STRING FOR DATA, AND 1" CONDUIT FOR POWER TO SIGNAGE. REFER TO MEP PLANS.
22. TELECOM LINE. REFER TO MEP PLANS.
23. LOW VOLT ELECTRIC CONDUIT FOR FIRE ALARMS. COORDINATE WITH MEP PLANS.
24. PROPOSED SANITARY. SEE SANITARY PLANS.

LAYOUT & UTILITY NOTES

- 1) THE CONTRACTOR SHALL CHECK ALL FINISHED GRADES, EXISTING GRADES & DIMENSIONS IN THE FIELD & REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
- 2) THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL CODES & RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION.
- 3) THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES & RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION.
- 4) PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT & NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY.
- 5) ROADWAY DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- 6) ALL CURB RADI TO BE 4.5' UNLESS OTHERWISE NOTED.
- 7) COORDINATE ALL UTILITY SERVICES WITH ARCHITECTURAL PLANS.
- 8) ALL WATER SERVICE CONNECTIONS WILL BE IN ACCORDANCE WITH THE TOWN OF CLARKSVILLE'S RULES AND REGULATIONS.
- 9) ALL CONDUIT TO MAINTAIN 36" MINIMUM COVER.
- 10) CONTACT TOWN OF CLARKSVILLE FOR INSPECTION OF SEWER SERVICE LINE PRIOR TO CONNECTION.
- 11) FIRE SERVICE LINE SHALL BE PVC C-900 PER NFSA. DOMESTIC SERVICE LINE SHALL BE PVC SDR-21.
- 12) ALL FIRE HYDRANTS WILL BE INSTALLED IN ACCORDANCE WITH THE TOWN OF CLARKSVILLE'S ORDINANCES AND REQUIREMENTS.
- 13) CONTRACTOR TO INSTALL 6" PROPERTY SERVICE CONNECTION. COORDINATE TIE-IN AND DEPTH WITH MEP PLANS. PSC MUST MEET LOCAL & STATE REQUIREMENTS FOR SLOPE, MATERIAL, CLEANOUT LOCATIONS & INSTALLATION. CONSTRUCT BACKFLOW PREVENTOR PER TOWN OF CLARKSVILLE'S STANDARDS ON ALL PSCs.
- 14) ALL CURBS TO BE 6-INCH VERTICAL CURB UNLESS OTHERWISE NOTED.

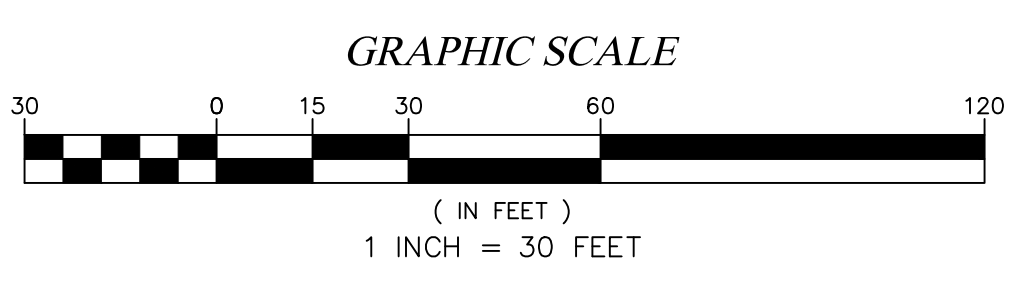
KNOX BOX NOTE

KNOX BOX LOCATIONS TO BE COORDINATED WITH CONTRACTOR

ABBREVIATIONS

- PROPOSED
- EXISTING
- DO NOT DISTURB
- TO BE REMOVED
- FINISHED FLOOR ELEVATION
- TOP OF GRADE
- TOP OF LID
- INVERT ELEVATION
- PROPERTY SERVICE CONNECTION
- MANHOLE
- STORM MANHOLE
- SANITARY MANHOLE
- JUNCTION BOX
- CATCH BASIN
- TEMPORARY BENCHMARK
- RIGHT OF WAY
- PROPERTY LINE
- BUILDING
- LANDSCAPE BUFFER AREA
- PROPOSED PARKING COUNTS
- EXISTING PARKING COUNTS

- PR.
- EX.
- END
- TBR
- F.F.E.
- TG
- L/L
- I.E.
- PSC
- MH
- STORM
- SANMH
- JB
- CB
- FBM
- R/W
- PL
- BLDG.
- L.S.A.
- # SPACES
- # Ex. Spaces



dTb
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French Lick, IN 47432
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812.278.0060



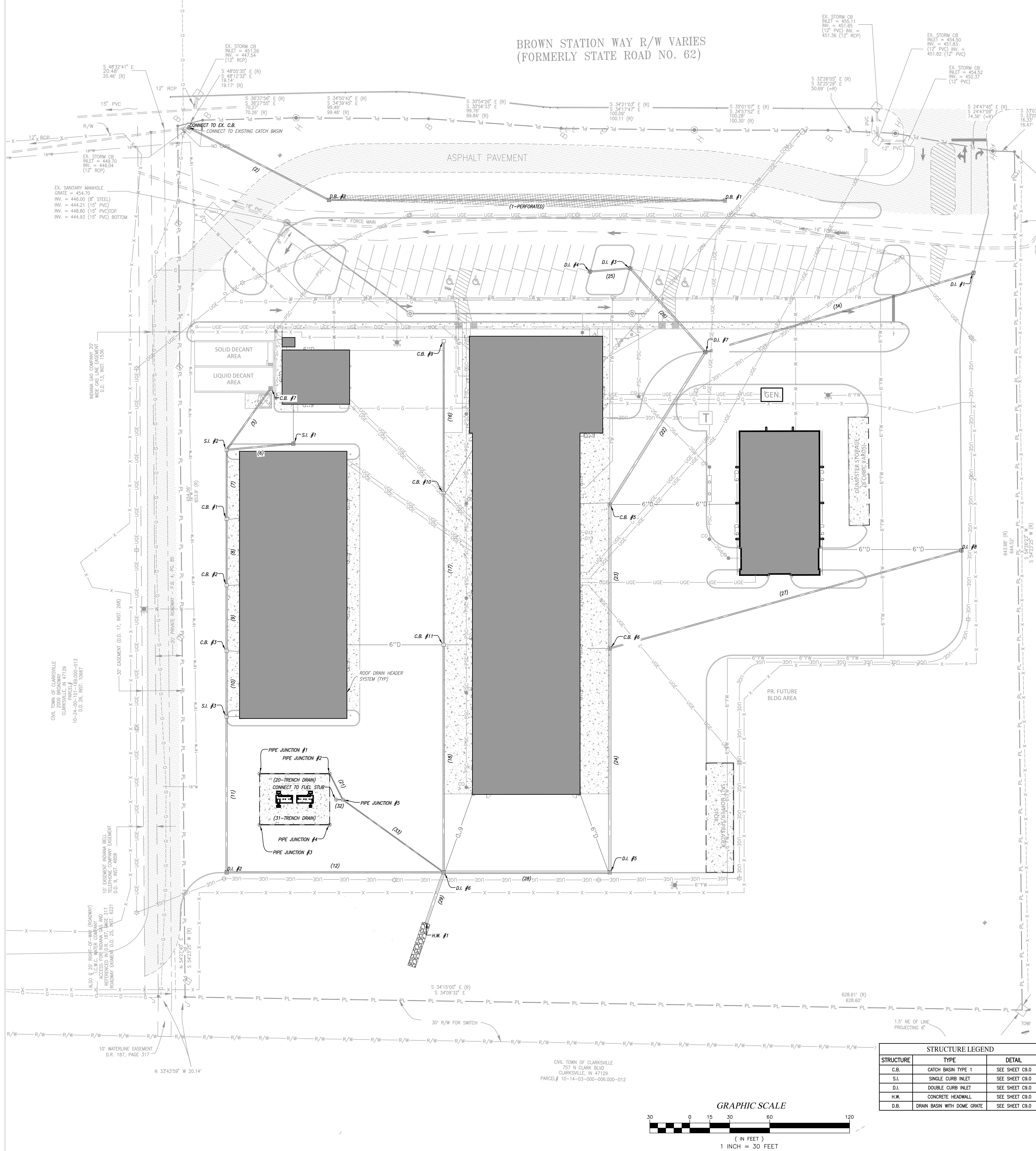
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CONSTRUCTION

Town of Clarksville
Public Works Facility
1 Leuthart Drive
Clarksville, IN 47129



Produced By: CGH
Coordinated By: CGH
Q.C. Checked By: DVSD
PROJECT STATUS
TRC SUBMITTAL No. 1 8/21/2020

UTILITY PLAN
C4.0



BLOCKS

EX. FIRE HYDRANT
EX. LIGHT POLE
EX. POWER POLE
EX. SIGN
EX. WATER VALVE
EX. GAS VALVE
EX. IRRIGATION VALVE
EX. GAS METER
EX. WATER METER
EX. ELECTRIC METER
EX. TRANSFORMER
EX. TELEPHONE PEDIESTAL
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EX. 4" PSC
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EX. CATCH BASIN TYPE 2
EX. DOWN SPOUT
EX. CLEAN OUT
EX. TEST PIT
EX. WATER SHUTOFF
EX. GUYWIRE
EX. MAILBOX
EX. BOLLARD
EX. SHRUB
EX. TREE

ABBREVIATIONS

PROPOSED
EXISTING
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F.F.E.
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EXISTING PARKING COUNTS

EX. LINETYPES

EX. EDGE OF PAVEMENT
EX. CURB
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EX. PROPERTY LINE TO BE REMOVED
EX. 25' BUFFER AREA FOR BLUE LINE STREAM

PR. LINETYPES

PR. EDGE OF PAVEMENT
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PR. EASEMENT
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PR. SWALE
PR. TREE LINE
PR. STORM SEWER
PR. SANITARY SEWER
PR. BUILDING
PR. CONCRETE
PR. GRAVEL

STRUCTURE TABLE

STRUCTURE #	DETAILS
[C.B. #1]	TO 455.16 IE 448.67(7) IE 448.67(8)
[C.B. #2]	TO 455.15 IE 448.22(8) IE 448.22(9)
[C.B. #3]	TO 455.15 IE 448.37(9) IE 448.37(10)
[C.B. #5]	TO 452.91 IE 447.95(22) IE 447.95(23)
[C.B. #6]	TO 452.91 IE 447.63(23) IE 447.63(24)
[C.B. #7]	TO 452.54 IE 450.00(5)
[C.B. #9]	TO 452.89 IE 450.14(16)
[C.B. #10]	TO 452.89 IE 449.80(16) IE 449.80(17)
[C.B. #11]	TO 452.89 IE 448.46(17) IE 448.46(18)
[CONNECT TO EX. C.B.]	IE 446.04(2)
[CONNECT TO FUEL STUB]	IE 452.89(32) IE 450.00 IE 448.00(1-PERFORATED) IE 447.11(2)
[D.B. #1]	TO 450.00 IE 447.11(1-PERFORATED) IE 447.11(2)
[D.I. #1]	TO 453.44 IE 449.93(34)
[D.I. #2]	TO 452.39 IE 448.87(11) IE 448.87(12)
[D.I. #3]	TO 452.69 IE 448.87(26) IE 448.87(25)
[D.I. #4]	TO 451.57 IE 449.07(25)
[D.I. #5]	TO 452.31 IE 447.00(24) IE 447.00(26)

STRUCTURE TABLE

STRUCTURE #	DETAILS
[D.I. #6]	TO 452.30 IE 448.30(19) IE 448.30(12) IE 446.25(28) IE 449.80(33) IE 443.80(29)
[D.I. #7]	TO 452.47 IE 448.50(22) IE 448.50(26) IE 447.63(34)
[D.I. #8]	TO 452.43 IE 450.94(27)
[H.W. #1]	IE 438.73(29)
[PIPE JUNCTION #1]	IE 453.11(20-TRENCH DRAIN) IE 452.95(21)
[PIPE JUNCTION #2]	IE 452.95(20-TRENCH DRAIN) IE 452.95(21)
[PIPE JUNCTION #3]	IE 452.78(31-TRENCH DRAIN)
[PIPE JUNCTION #4]	IE 452.92(31-TRENCH DRAIN)
[PIPE JUNCTION #5]	IE 452.88(21) IE 452.88(32) IE 452.88(33)
[S.I. #1]	TO 454.43 IE 451.93(6)
[S.I. #2]	TO 455.29 IE 451.78(6) IE 449.83(5) IE 449.83(7)
[S.I. #3]	TO 455.15 IE 449.22(10) IE 449.22(11)

PIPE TABLE

(PIPE #)	SIZE	LENGTH	SLOPE
(1-PERFORATED)	12"	297.30'	0.30%
(2)	12"	118.30'	0.90%
(5)	12"	56.69'	0.30%
(6)	12"	50.25'	0.30%
(7)	12"	51.89'	0.30%
(8)	12"	49.81'	0.30%
(9)	15"	49.19'	0.30%
(10)	15"	49.50'	0.30%
(11)	15"	116.83'	0.30%
(12)	15"	163.00'	0.35%
(16)	12"	114.00'	0.30%
(17)	12"	114.00'	0.30%
(18)	15"	170.83'	0.68%
(20-TRENCH DRAIN)	8"	52.67'	0.30%
(21)	8"	21.86'	0.32%
(22)	18"	135.13'	0.41%
(23)	24"	108.00'	0.30%
(24)	24"	168.16'	0.37%
(25)	12"	30.26'	0.66%
(26)	15"	84.57'	0.44%
(27)	12"	274.14'	0.35%
(28)	24"	124.70'	0.60%
(29)	24"	40.35'	12.57%
(31-TRENCH DRAIN)	8"	52.67'	0.30%
(32)	6"	4.92'	0.30%
(33)	8"	93.38'	3.30%
(34)	12"	209.91'	1.10%

STRUCTURE LEGEND

STRUCTURE	TYPE	DETAIL
C.B.	CATCH BASIN TYPE 1	SEE SHEET C9.0
S.I.	SINGLE CURB INLET	SEE SHEET C9.0
D.I.	DOUBLE CURB INLET	SEE SHEET C9.0
H.W.	CONCRETE HEADWALL	SEE SHEET C9.0
D.B.	DRAIN BASIN WITH DOME GRATE	SEE SHEET C9.0

GRAPHIC SCALE

30 0 15 30 60 120
(IN FEET)
1 INCH = 30 FEET

LOCATION MAP
NOT TO SCALE

NOT FOR CONSTRUCTION

CLARKSVILLE INDIANA

STORM DRAINAGE PLAN

C5.0

HERITAGE ENGINEERING
603 North Shore Drive Unit 204
Jeffersonville, IN 47130
(812) 286-8201 (812) 280-8281 Fax

dbtarr & company
8728 W. Co. Rd. 175 S.
French Lick, IN 47432
dbtarr@yahoo.com
812.278.0060

GM DEVELOPMENT

Town of Clarksville
Public Works Facility
1 Leuthart Drive
Clarksville, IN 47129

Produced By: CGH
Coordinated By: CGH
Q.C. Checked By: DVSD

PROJECT STATUS
TRC SUBMITTAL No. 1 8/21/2020

STORM DRAINAGE PLAN

C5.0



db tarr
& company
 728 W. Co. Rd. 175 S.
 French Lick, IN 47432
 dbtarr@yahoo.com
 812.278.0060



NOT FOR
CONSTRUCTION

**Town of Clarksville
Public Works Facility
1 Leuthart Drive
Clarksville, IN 47129**



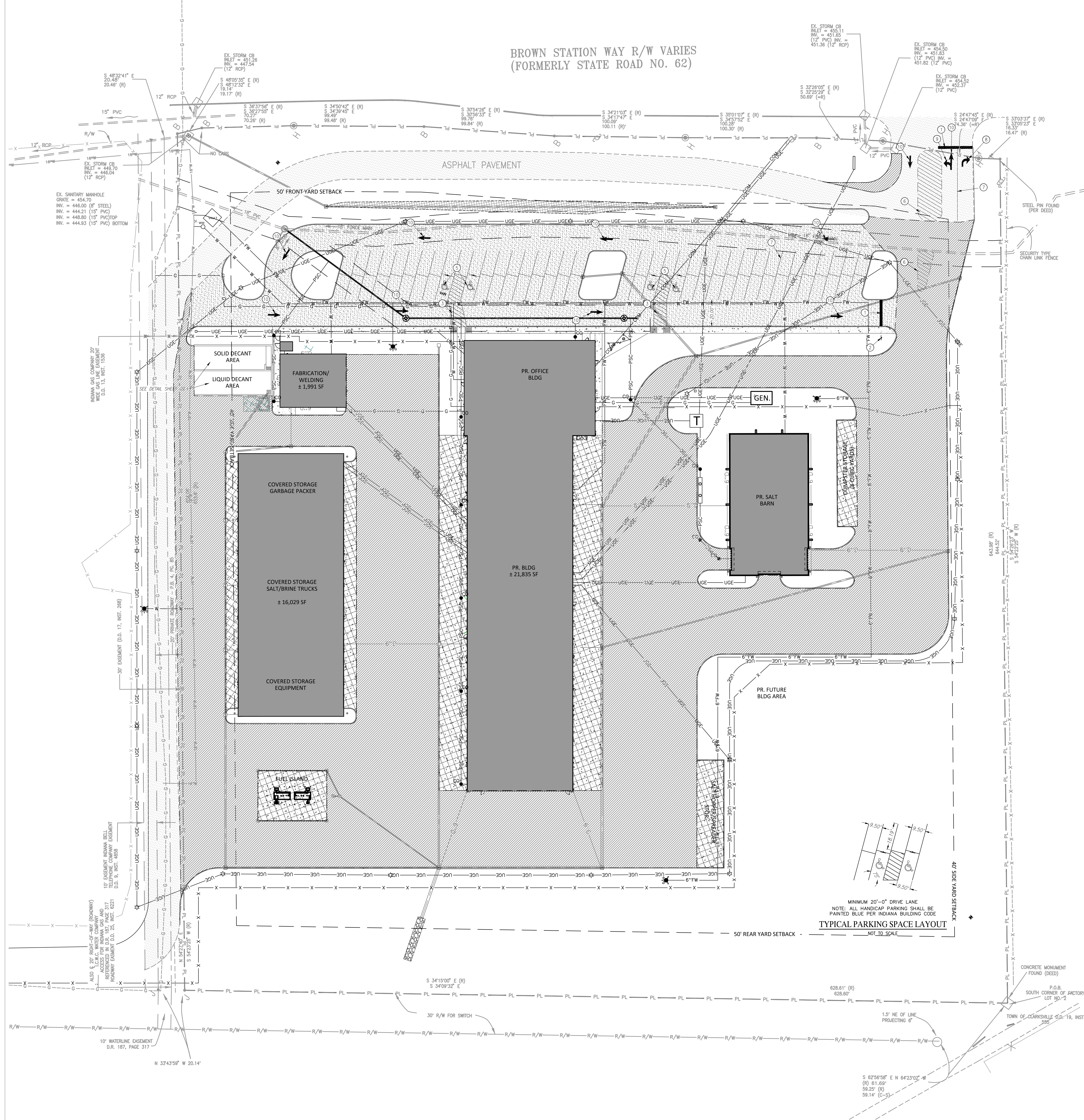
Produced By: CGH
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PROJECT STATUS	
TRC SUBMITTAL No. 1	8/21/2020

PIPE CHART

C5.1

Pipe No.	Area (sf)	Area (acres)	Sum of Area (acres)		Area C	C x A	Sum of C x A	Weighted C	I (in/hr)	Tc (min.)	S Q10 (cfs)	S Q100 (cfs)	Size (in)	Length (ft)	Slope (%)	Capacity (cfs)	Velocity (fps)	HW 100	HW 10.00	CB Depth	Upstream Invert	Downstream Invert	Grate Elev
2	22010	0.51	0.51	0.85	0.43	0.43	0.85	5.30	10.00	2.28	3.14	12	118	0.90%	3.68	4.69	1.31	1.00	2.89	447.11	446.04	450.00	
5	3117	0.07	0.07	0.95	0.07	0.07	0.95	5.30	10.00	0.36	0.50	12	57	0.30%	2.12	2.70	0.69	0.68	2.50	450.00	449.83	452.50	
6	7549	0.17	0.17	0.85	0.15	0.15	0.85	5.30	10.00	0.78	1.08	12	50	0.30%	2.11	2.69	0.74	0.71	2.50	451.93	451.78	454.43	
7	2431	0.06	0.30	0.85	0.05	0.26	0.87	5.30	10.00	1.39	1.92	12	52	0.31%	2.15	2.74	0.91	0.80	5.26	449.83	449.67	455.09	
8	4293	0.10	0.40	0.95	0.09	0.36	0.89	5.30	10.00	1.89	2.61	12	50	0.30%	2.12	2.70	1.11	0.90	5.49	449.67	449.52	455.16	
9	4364	0.10	0.50	0.95	0.10	0.45	0.90	5.30	10.00	2.39	3.30	15	49	0.30%	3.87	3.16	1.13	0.99	5.63	449.52	449.37	455.15	
10	4336	0.10	0.60	0.95	0.09	0.55	0.91	5.30	10.00	2.89	3.99	15	50	0.30%	3.86	3.15	1.26	1.06	5.78	449.37	449.22	455.15	
11	1738	0.04	0.64	0.85	0.03	0.58	0.91	5.30	10.00	3.07	4.24	15	117	0.30%	3.84	3.13	1.31	1.09	5.93	449.22	448.87	455.15	
12	9725	0.22	0.86	0.85	0.19	0.77	0.89	5.30	10.00	4.08	5.63	15	163	0.35%	4.15	3.38	1.68	1.28	3.52	448.87	448.30	452.39	
16	5860	0.13	0.13	0.85	0.11	0.11	0.85	5.30	10.00	0.61	0.84	12	114	0.30%	2.11	2.69	0.72	0.69	2.75	450.14	449.80	452.89	
17	11972	0.27	0.41	0.95	0.26	0.38	0.92	5.30	10.00	1.99	2.75	12	114	0.30%	2.11	2.69	1.16	0.93	3.09	449.80	449.46	452.89	
18	27453	0.63	1.04	0.95	0.60	0.97	0.94	5.30	10.00	5.16	7.13	15	171	0.68%	5.78	4.71	2.18	1.54	3.43	449.46	448.30	452.89	
20	2197	0.05	0.05	0.95	0.05	0.05	0.95	5.30	10.00	0.25	0.35	8	53	0.30%	0.72	2.07	0.49	0.47	0.70	453.11	452.95	453.81	
21	0	0.00	0.05	0.95	0.00	0.05	0.95	5.30	10.00	0.25	0.35	8	22	0.32%	0.74	2.13	0.49	0.47	NA	452.95	452.88	NA	
32	2019	0.05	0.05	0.95	0.04	0.04	0.95	5.30	10.00	0.23	0.32	6	5	0.20%	0.27	1.40	0.44	0.39	NA	452.89	452.88	NA	
33	0	0.00	0.10	0.95	0.00	0.09	0.95	5.30	10.00	0.49	0.67	8	59	5.20%	2.99	8.57	0.59	0.52	NA	452.88	449.80	NA	
31	2019	0.05	0.05	0.85	0.04	0.04	0.85	5.30	10.00	0.21	0.29	8	53	0.30%	0.72	2.07	0.47	0.46	0.70	452.92	452.76	453.62	
25	27893	0.64	0.64	0.85	0.54	0.54	0.85	5.30	10.00	2.86	3.95	12	30	0.66%	3.15	4.01	1.68	1.20	2.50	449.07	448.87	451.57	
26	15238	0.35	0.99	0.85	0.30	0.84	0.85	5.30	10.00	4.44	6.13	15	85	0.44%	4.64	3.78	1.83	1.36	2.75	448.87	448.50	451.62	
27	10711	0.25	0.25	0.85	0.21	0.21	0.85	5.30	10.00	1.11	1.53	12	274	0.35%	2.30	2.93	0.82	0.75	2.50	450.94	449.97	453.44	
22	16470	0.58	1.61	0.85	0.32	1.37	0.85	5.30	10.00	7.25	10.01	18	135	0.41%	7.28	4.12	2.28	1.68	3.87	448.50	447.95	452.47	
23	25304	0.38	2.19	0.85	0.49	1.86	0.85	5.30	10.00	9.87	13.62	24	108	0.30%	13.38	4.26	2.09	1.73	4.96	447.95	447.63	452.91	
34	28730	0.66	0.66	0.85	0.56	0.56	0.85	5.30	10.00	2.97	4.10	12	210	1.10%	4.05	5.16	1.75	1.24	2.50	449.93	447.63	452.43	
24	20225	0.46	3.31	0.85	0.39	2.82	0.85	5.30	10.00	14.93	20.60	24	168	0.37%	15.04	4.79	3.05	2.24	5.28	447.63	447.00	452.91	
28	25964	0.80	3.91	0.85	0.51	3.53	0.90	5.30	10.00	18.72	25.84	24	125	0.60%	19.06	6.07	4.03	2.75	5.31	447.00	446.25	452.31	
29	15557	0.36	6.27	0.85	0.30	5.67	0.91	5.30	10.00	30.06	41.49	24	40	12.57%	87.11	27.73	8.28	4.98	8.50	443.80	438.73	452.40	



BLOCKS

- EX. FIRE HYDRANT
- EX. LIGHT POLE
- EX. POWER POLE
- EX. SIGN
- EX. WATER VALVE
- EX. GAS VALVE
- EX. IRRIGATION VALVE
- EX. GAS METER
- EX. WATER METER
- EX. ELECTRIC METER
- EX. TRANSFORMER
- EX. TELEPHONE PEDESTAL
- EX. MONITORING WELL
- EX. TELEPHONE MANHOLE
- EX. ELECTRIC MANHOLE
- EX. SANITARY SEWER
- EX. DRAINAGE MANHOLE
- EX. WELL
- EX. DRILL HOLE
- EX. 4" PSC
- EX. 6" PSC
- EX. CATCH BASIN TYPE 1
- EX. CATCH BASIN TYPE 2
- EX. DOWN SPOUT
- EX. CLEAN OUT
- EX. TEST PIT
- EX. WATER SHUTOFF
- EX. CULWIRE
- EX. MAILBOX
- EX. BOLLARD
- EX. SHRUB
- EX. TREE

EX. LINETYPES

EX. EDGE OF PAVEMENT	
EX. CURB	
EX. SHOULDER	
EX. EASEMENT	
EX. WATER LINE	W
EX. GAS LINE	G
EX. FENCE	X
EX. FIBER OPTIC LINE	FO
EX. OVERHEAD ELECTRIC LINE	OHE
EX. UNDERGROUND ELECTRIC LINE	UGE
EX. OVERHEAD TELEPHONE LINE	OHT
EX. UNDERGROUND TELEPHONE LINE	UGT
EX. PROPERTY SERVICE CONNECTION	PSC
EX. RIGHT OF WAY	R/W
EX. PROPERTY LINE	PL
EX. ELECTRIC LINE	E
EX. CABLE LINE	CABLE
EX. LANDSCAPE BUFFER LINE	LBA
EX. SWALE	
EX. STORM SEWER	
EX. SANITARY SEWER	
EX. BUILDING	
EX. ASPHALT	
EX. TRACKS	
EX. BUILDING SETBACK LINE	B/L
EX. PROPERTY LINE TO BE REMOVED	Z
EX. 25' BUFFER AREA FOR BLUE LINE STREAM	

PR. LINETYPES

PR. EDGE OF PAVEMENT	
PR. CURB	
PR. SHOULDER	
PR. EASEMENT	
PR. WATER LINE	W
PR. GAS LINE	G
PR. FENCE	X
PR. FIBER OPTIC LINE	FO
PR. OVERHEAD ELECTRIC LINE	OHE
PR. UNDERGROUND ELECTRIC LINE	UGE
PR. OVERHEAD TELEPHONE LINE	OHT
PR. UNDERGROUND TELEPHONE LINE	UGT
PR. PROPERTY SERVICE CONNECTION	PSC
PR. RIGHT OF WAY	R/W
PR. PROPERTY LINE	PL
PR. ELECTRIC LINE	E
PR. CABLE LINE	CABLE
PR. LANDSCAPE BUFFER LINE	LBA
PR. SWALE	
PR. TREE LINE	
PR. STORM SEWER	
PR. SANITARY SEWER	
PR. BUILDING	
PR. CONCRETE	
PR. HEAVY DUTY CONCRETE	
PR. LIGHT DUTY ASPHALT	
PR. HEAVY DUTY ASPHALT	

SIGN/STRIPING LEGEND

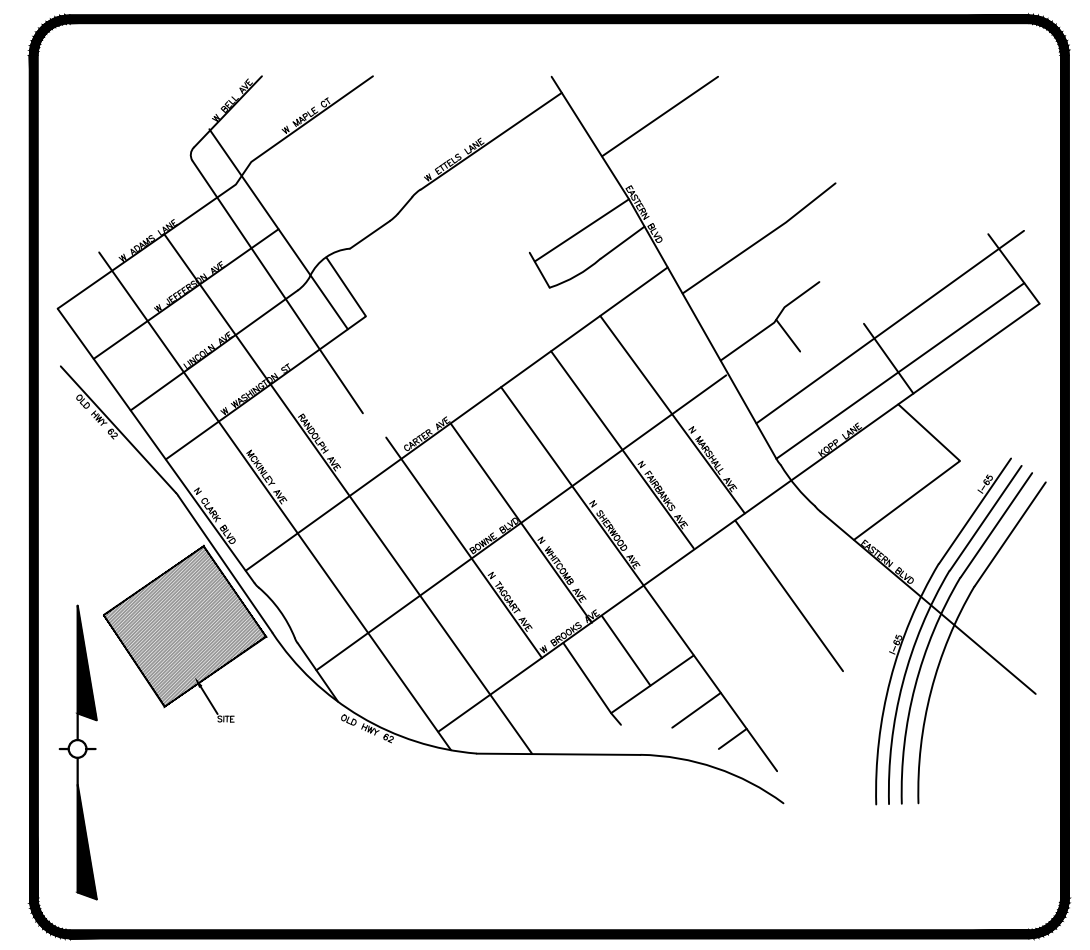
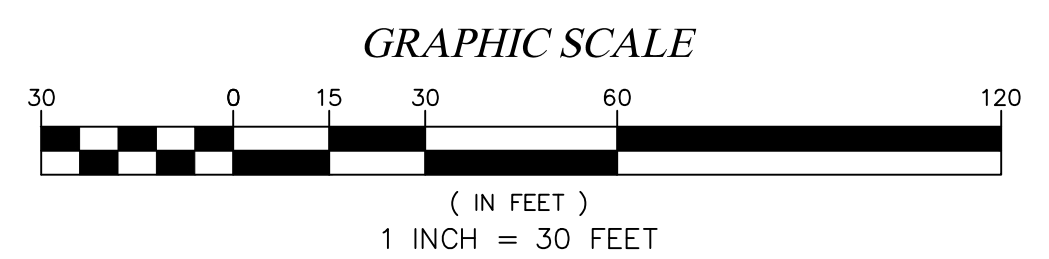
- 1 STOP BAR
- 2 STOP SIGN
- 3 CROSSWALK
- 4 NOT USED
- 5 ACCESSIBLE PARKING SYMBOL
- 6 STRIPING
- 7 4" WHITE PAINTED STRIPE (TYP.)
- 8 PROPOSED RIGHT TURN ARROW
- 9 PROPOSED LEFT TURN ARROW
- 10 PROPOSED THRU ARROW

ABBREVIATIONS

PROPOSED	PR.
EXISTING	EX.
DO NOT DISTURB	DND
TO BE REMOVED	TBR
FINISHED FLOOR ELEVATION	F.F.E.
TOP OF GRADE	TG
TOP OF LID	T/L
INVERT ELEVATION	I.E.
PROPERTY SERVICE CONNECTION	PSC
MANHOLE	MH
STORM MANHOLE	STMH
SANITARY MANHOLE	SANMH
JUNCTION BOX	JB
CATCH BASIN	CB
TEMPORARY BENCHMARK	TBM
RIGHT OF WAY	R/W
PROPERTY LINE	PL
BUILDING	BLDG.
LANDSCAPE BUFFER AREA	LBA
PROPOSED PARKING COUNTS	# SPACES
EXISTING PARKING COUNTS	# Ex. Spaces

HANDICAP STRIPING NOTE

ALL HANDICAP PARKING SHALL BE PAINTED BLUE PER INDIANA BUILDING CODE.



dTb
db tarr
& company
8728 W. Co. Rd. 175 S.
French Lick, IN 47432
dbtarr@yahoo.com
812.278.0060



NOT FOR
CONSTRUCTION

Town of Clarksville
Public Works Facility
1 Leuthart Drive
Clarksville, IN 47129



Produced By: CGH

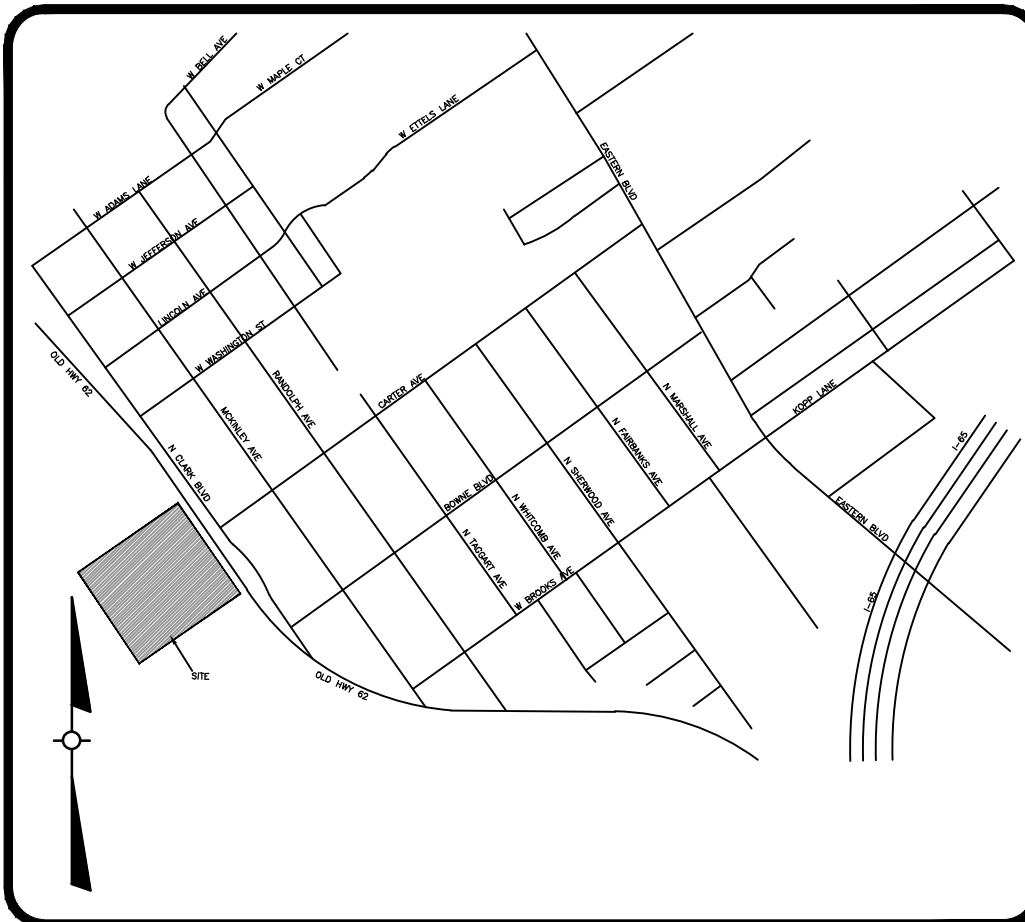
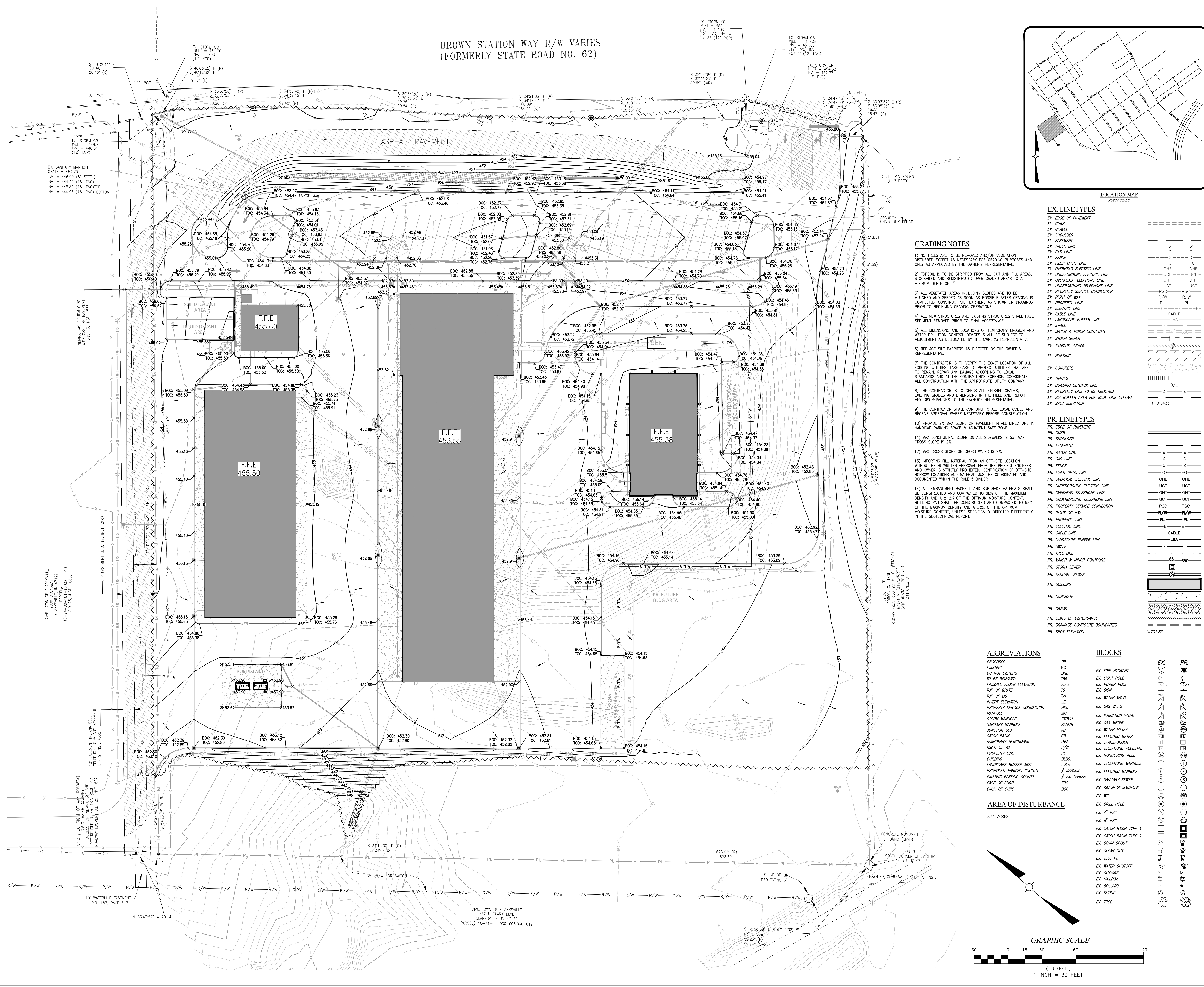
Coordinated By: CGH

Q.C. Checked By: DVSD

PROJECT STATUS	
TRC SUBMITTAL No. 1	8/21/2020

PAVING AND
STRIPING PLAN

C6.0



EX. LINETYPES

EX. EDGE OF PAVEMENT	---
EX. CURB	---
EX. SHOULDER	---
EX. GRAVEL	---
EX. EASEMENT	---
EX. WATER LINE	---
EX. GAS LINE	---
EX. FENCE	---
EX. FIBER OPTIC LINE	---
EX. OVERHEAD ELECTRIC LINE	---
EX. UNDERGROUND ELECTRIC LINE	---
EX. OVERHEAD TELEPHONE LINE	---
EX. UNDERGROUND TELEPHONE LINE	---
EX. PROPERTY SERVICE CONNECTION	---
EX. RIGHT OF WAY	---
EX. PROPERTY LINE	---
EX. ELECTRIC LINE	---
EX. CABLE LINE	---
EX. LANDSCAPE BUFFER LINE	---
EX. SWALE	---
EX. MAJOR & MINOR CONTOURS	---
EX. STORM SEWER	---
EX. SANITARY SEWER	---
EX. BUILDING	---
EX. CONCRETE	---
EX. TRACKS	---
EX. BUILDING SETBACK LINE	---
EX. PROPERTY LINE TO BE REMOVED	---
EX. 25' BUFFER AREA FOR BLUE LINE STREAM	---
EX. SPOT ELEVATION	---

GRADING NOTES

- 1) NO TREES ARE TO BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES AND ONLY AS APPROVED BY THE OWNER'S REPRESENTATIVE.
- 2) TOPSOIL IS TO BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM DEPTH OF 6".
- 3) ALL VEGETATED AREAS INCLUDING SLOPES ARE TO BE MULCHED AND SEEDED AS SOON AS POSSIBLE AFTER GRADING IS COMPLETED. CONSTRUCT SILT BARRIERS AS SHOWN ON DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS.
- 4) ALL NEW STRUCTURES AND EXISTING STRUCTURES SHALL HAVE SEDIMENT REMOVED PRIOR TO FINAL ACCEPTANCE.
- 5) ALL DIMENSIONS AND LOCATIONS OF TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE OWNER'S REPRESENTATIVE.
- 6) REPLACE SILT BARRIERS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- 7) THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
- 8) THE CONTRACTOR IS TO CHECK ALL FINISHED GRADES, EXISTING GRADES AND DIMENSIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
- 9) THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION.
- 10) PROVIDE 2% MAX SLOPE ON PAVEMENT IN ALL DIRECTIONS IN HANDICAP PARKING SPACE & ADJACENT SAFE ZONE.
- 11) MAX LONGITUDINAL SLOPE ON ALL SIDEWALKS IS 5% MAX. CROSS SLOPE IS 2%.
- 12) MAX CROSS SLOPE ON CROSS WALKS IS 2%.
- 13) IMPORTING FILL MATERIAL FROM AN OFF-SITE LOCATION WITHOUT PRIOR WRITTEN APPROVAL FROM THE PROJECT ENGINEER AND OWNER IS STRICTLY PROHIBITED. IDENTIFICATION OF OFF-SITE BORROW LOCATIONS AND MATERIAL MUST BE COORDINATED AND DOCUMENTED WITHIN THE RULE 5 BINDER.
- 14) ALL EMBANKMENT BACKFILL AND SUBGRADE MATERIALS SHALL BE CONSTRUCTED AND COMPACTED TO 98% OF THE MAXIMUM DENSITY AND A $\pm$ 2% OF THE OPTIMUM MOISTURE CONTENT. BUILDING PAD SHALL BE CONSTRUCTED AND COMPACTED TO 98% OF THE MAXIMUM DENSITY AND A $\pm$ 2% OF THE OPTIMUM MOISTURE CONTENT, UNLESS SPECIFICALLY DIRECTED DIFFERENTLY IN THE GEOTECHNICAL REPORT.

PR. LINETYPES

PR. EDGE OF PAVEMENT	---
PR. CURB	---
PR. SHOULDER	---
PR. EASEMENT	---
PR. WATER LINE	---
PR. GAS LINE	---
PR. FENCE	---
PR. FIBER OPTIC LINE	---
PR. OVERHEAD ELECTRIC LINE	---
PR. UNDERGROUND ELECTRIC LINE	---
PR. OVERHEAD TELEPHONE LINE	---
PR. UNDERGROUND TELEPHONE LINE	---
PR. PROPERTY SERVICE CONNECTION	---
PR. RIGHT OF WAY	---
PR. PROPERTY LINE	---
PR. ELECTRIC LINE	---
PR. CABLE LINE	---
PR. LANDSCAPE BUFFER LINE	---
PR. SWALE	---
PR. TREE LINE	---
PR. MAJOR & MINOR CONTOURS	---
PR. STORM SEWER	---
PR. SANITARY SEWER	---
PR. BUILDING	---
PR. CONCRETE	---
PR. GRAVEL	---
PR. LIMITS OF DISTURBANCE	---
PR. DRAINAGE COMPOSITE BOUNDARIES	---
PR. SPOT ELEVATION	---

ABBREVIATIONS

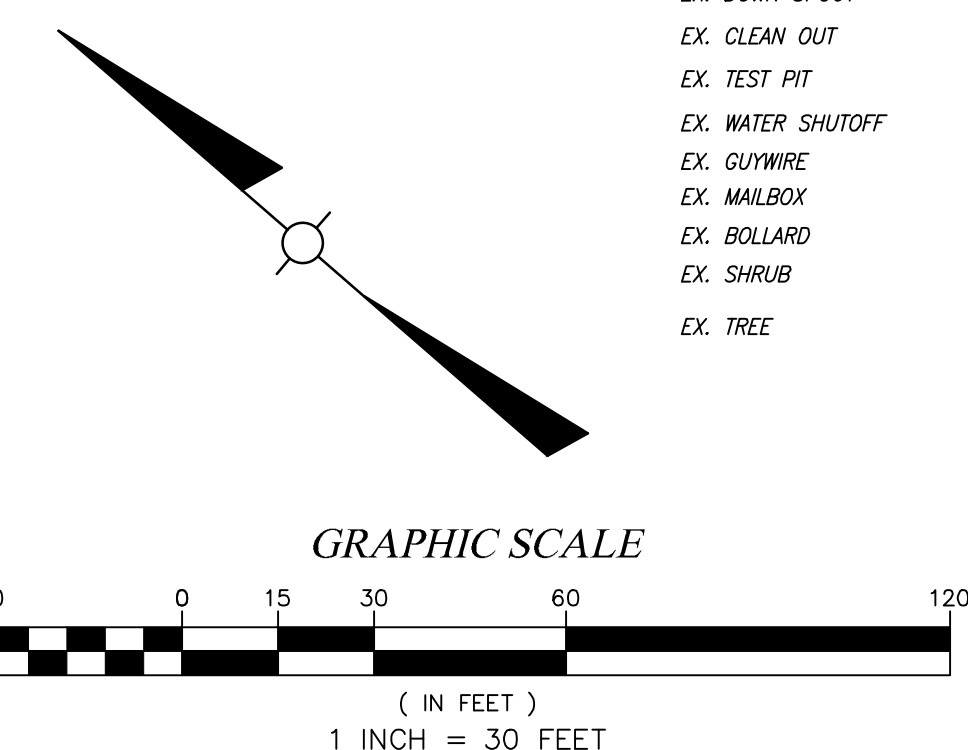
PROPOSED	PR.
EXISTING	EX.
DO NOT DISTURB	DND
TO BE REMOVED	TBR
FINISHED FLOOR ELEVATION	F.F.E.
TOP OF GRATE	TOG
TOP OF LOT	T/L
INVERT ELEVATION	I.E.
PROPERTY SERVICE CONNECTION	PSC
MANHOLE	MH
STORM MANHOLE	STRMH
SANITARY MANHOLE	SMH
JUNCTION BOX	JB
CATCH BASIN	CB
TEMPORARY BENCHMARK	TBM
RIGHT OF WAY	R/W
PROPERTY LINE	PL
BUILDING	BLDG.
LANDSCAPE BUFFER AREA	L.B.A.
PROPOSED PARKING COUNTS	# SPACES
EXISTING PARKING COUNTS	# Ex. Spaces
FACE OF CURB	FOC
BACK OF CURB	BOC

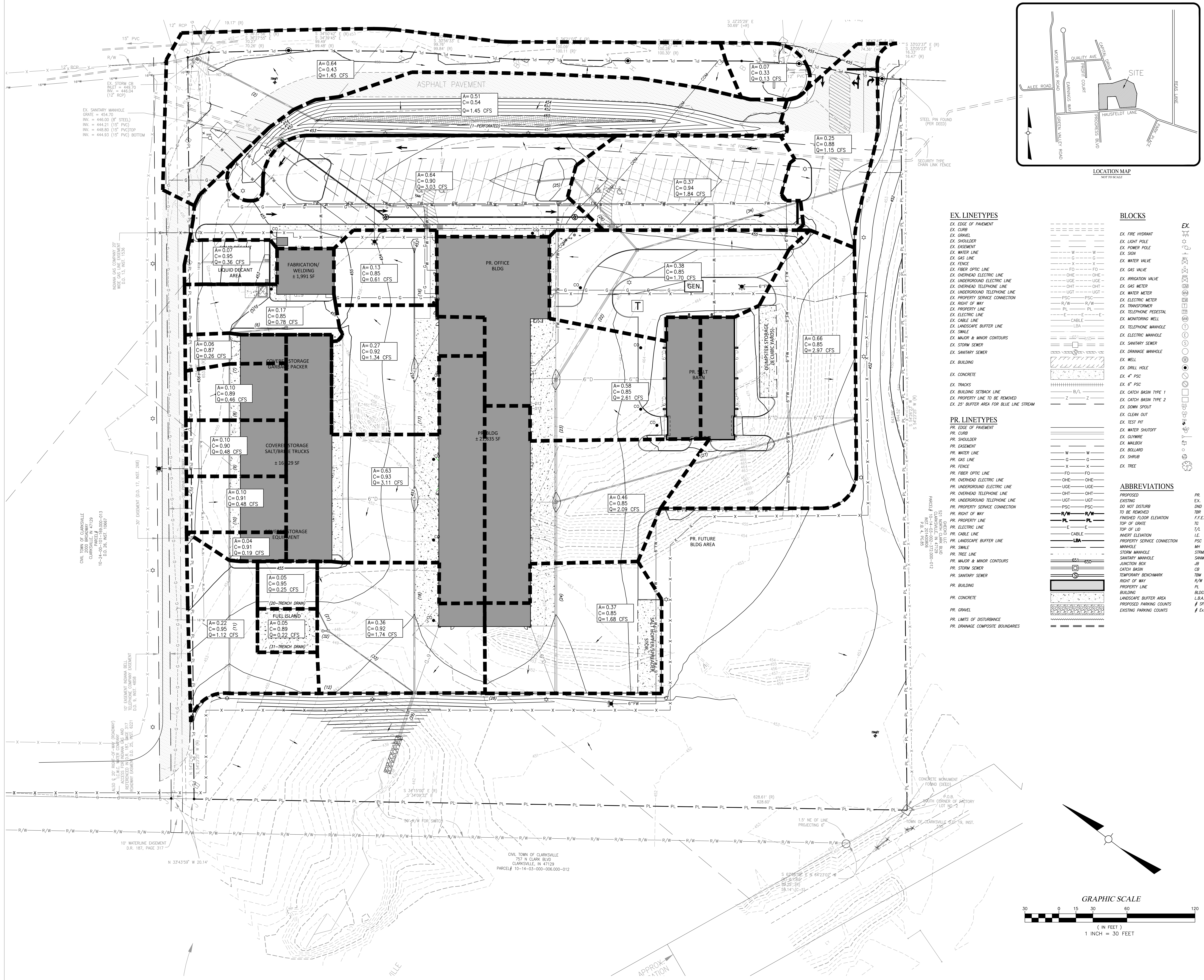
AREA OF DISTURBANCE

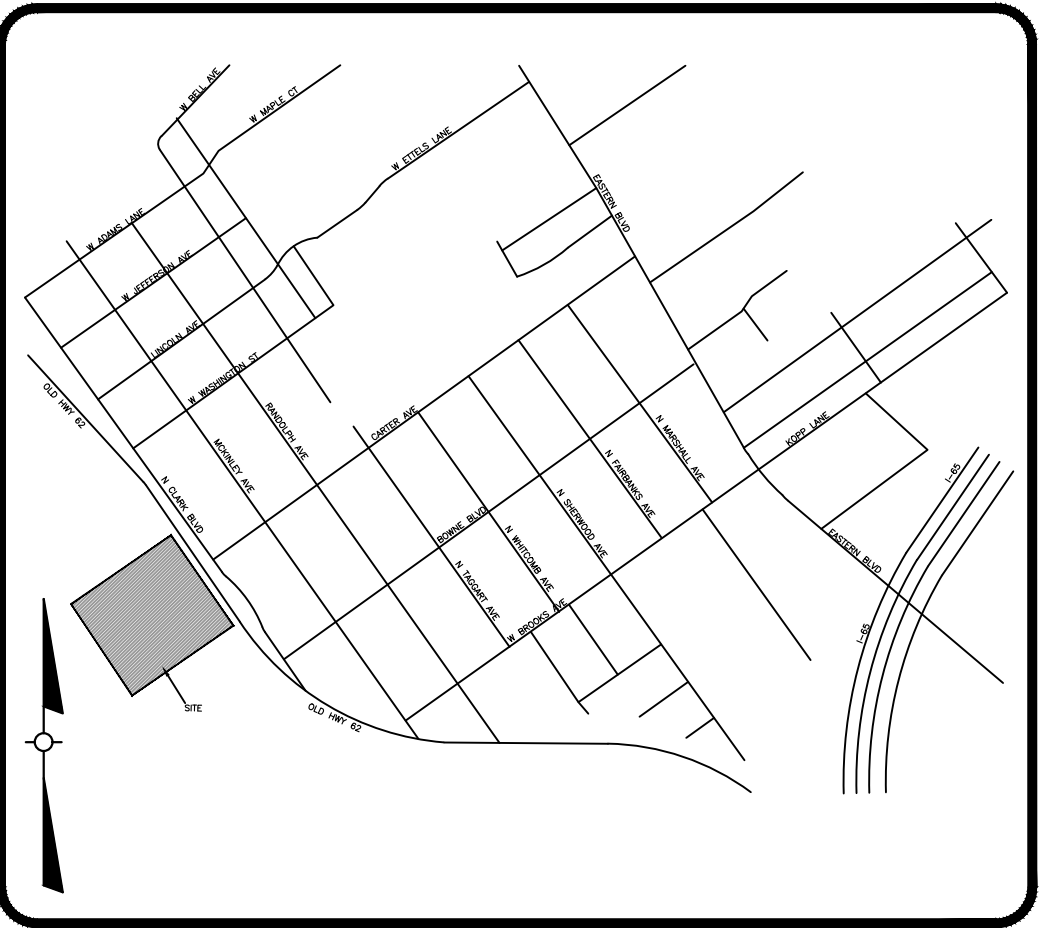
8.41 ACRES

BLOCKS

EX. FIRE HYDRANT	---
EX. LIGHT POLE	---
EX. POWER POLE	---
EX. SIGN	---
EX. WATER VALVE	---
EX. GAS VALVE	---
EX. IRRIGATION VALVE	---
EX. GAS METER	---
EX. WATER METER	---
EX. ELECTRIC METER	---
EX. TRANSFORMER	---
EX. TELEPHONE PEDESTAL	---
EX. MONITORING WELL	---
EX. TELEPHONE MANHOLE	---
EX. ELECTRIC MANHOLE	---
EX. SANITARY SEWER	---
EX. DRAINAGE MANHOLE	---
EX. WELL	---
EX. DRILL HOLE	---
EX. 4" PSC	---
EX. 6" PSC	---
EX. CATCH BASIN TYPE 1	---
EX. CATCH BASIN TYPE 2	---
EX. DOWN SPOUT	---
EX. CLEAN OUT	---
EX. TEST PIT	---
EX. WATER SHUTOFF	---
EX. CUPWIRE	---
EX. MAULBOX	---
EX. BOLLARD	---
EX. SHRUB	---
EX. TREE	---







RULE 5 INDEX		
A1	PLAN INDEX	ER-1
A3	PROJECT NARRATIVE	ER-2
A4	VICINITY MAP	ER-1
A5	LEGAL DESCRIPTION OF THE PROJECT SITE	ER-2
A6	LOCATION OF ALL LOTS & PROPOSED SITE IMPROVEMENTS	ER-1
A7	HYDROLOGY UNIT CODE	ER-2
A8	NOTATION OF ANY STATE OR FEDERAL WATER QUALITY PERMITS	ER-2
A9	SPECIFIC POINTS WHERE STORM WATER WILL LEAVE THE SITE	ER-1&ER-2
A10	LOCATION & NAME OF ALL WETLANDS, LAKES & WATER COURSES	ER-2
A11	IDENTIFY ALL RECEIVING WATERS	ER-2
A12	IDENTIFICATION OF POTENTIAL DISCHARGES TO GROUNDWATER	ER-2
A13	100 YEAR FLOODPLAINS, FLOODWAYS & FLOODWAY FRINGES	ER-2
A14	PRE-CONSTRUCTION & POST CONSTRUCTION ESTIMATE OF PEAK DISCHARGE	ER-2
A15	ADJACENT LAND-USE, INCLUDING UPSTREAM WATERSHED	ER-1&ER-2
A16	LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS	ER-1&ER-2
A17	IDENTIFICATION OF EXISTING VEGETATIVE COVER	ER-2
A18	SOILS MAP INCLUDING DESCRIPTIONS AND LIMITATIONS	ER-2
A19	LOCATIONS, SIZE AND DIMENSIONS OF PROPOSED STORMWATER SYSTEMS	ER-1
A20	PLAN FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT	NA
A21	LOCATIONS OF PROPOSED SOIL STOCKPILES, BORROW AND/OR DISPOSAL AREAS	NA
A22	EXISTING SITE TOPOGRAPHY	ER-1
A23	PROPOSED FINAL TOPOGRAPHY	ER-1
B1	DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES	ER-2
B2	SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND DISTURBING ACTIVITIES	ER-1
B3	STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS	ER-1
B4	SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS	ER-1
B5	SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS	ER-1
B6	STORM SEWER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS	ER-1&ER-2
B7	RUNOFF CONTROL MEASURES	ER-1&ER-2
B8	STORMWATER OUTLET PROTECTION SPECIFICATIONS	ER-1&ER-2
B9	GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS	ER-1
B10	LOCATION, DIMENSIONS, SPECS & CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE	ER-1&ER-2
B11	TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON	ER-2
B12	PERMANENT SURFACE STABILIZATION SPECIFICATIONS	ER-2
B13	MATERIAL HANDLING AND SPILL PREVENTION PLAN	ER-1
B14	MONITORING & MAINTENANCE GUIDELINES FOR EACH PROPOSED POLLUTION PREVENTION MEASURE	ER-1&ER-2
C1	DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE	ER-2
C2	SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION	ER-1
C3	DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER QUALITY MEASURES	ER-2
C4	LOCATION, DIMENSIONS, SPECS & CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE	ER-1&ER-2
C5	DESCRIPTION OF MAINTENANCE GUIDELINES FOR PROPOSED POST CONSTRUCTION WATER QUALITY MEASURES	ER-2

PROJECT CONTACT INFORMATION	
PROJECT OWNER:	TOWN OF CLARKSVILLE
CONTACT:	BRAD CUMMINGS / MIKE HUFF
ADDRESS:	107 ROY COLE DRIVE
CITY:	CLARKSVILLE
STATE:	INDIANA
ZIP:	47129
PHONE:	(812) 283-1538
EMAIL:	bcummings@townofclarksville.com mhuff@townofclarksville.com

A1. PLAN INDEX	SEE THIS SHEET.
A2. 11 BY 17 INCH PLAT SHOWING BUILDING LOT NUMBERS/BOUNDARIES AND LAYOUT/NAMES	NOT APPLICABLE.
A3. PROJECT NARRATIVE	THIS PROJECT IS PUBLIC WORKS FACILITY WITH A BIKE TRAIL AND TRAILHEAD, WITH ASSOCIATED PARKING FOR BOTH USES.
A4. VICINITY MAP	SEE THIS SHEET.
A5. LEGAL DESCRIPTION OF THE PROJECT SITE	THE PROJECT SITE IS DESCRIBED IN THE DEEDS TO THE PROPERTY. LATITUDE: -39°17'40.71"N LONGITUDE: -85°46'17"W
A6. LOCATION OF ALL LOTS & PROPOSED SITE IMPROVEMENTS	SEE ATTACHED CONSTRUCTION PLANS.
A7. HYDROLOGY UNIT CODE	OHIO RIVER WATERSHED 05140101140170 PER HTTP://MAPS.INDIANA.EDU/
A8. NOTATION OF ANY STATE OR FEDERAL WATER QUALITY PERMITS	THERE IS NO EXISTING STATE OR FEDERAL WATER QUALITY PERMITS ASSOCIATED WITH THE EXISTING LAND.
A9. SPECIFIC POINTS WHERE STORM WATER WILL LEAVE THE SITE	THE DRAINAGE FROM THIS SITE WILL COLLECT INTO MILL CREEK
A10. LOCATION & NAME OF ALL WETLANDS, LAKES & WATER COURSES	NO LAKE/WATER COURSE LOCATED DIRECTLY ON SITE.
A11. IDENTIFY ALL RECEIVING WATERS	PROPOSED SITE WILL FLOW INTO MILL CREEK, WHICH FLOWS INTO THE OHIO RIVER.
A12. IDENTIFICATION OF POTENTIAL DISCHARGES TO GROUNDWATER	NONE THAT IS KNOWN.
A13. 100 YEAR FLOODPLAINS, FLOODWAYS & FLOODWAY FRINGES	ACCORDING TO FIRM PANEL NUMBER 1801900267E, THE PROPERTY IS LOCATED WITHIN ZONE X. 10 yr EX Q = 4.87 CFS 10 yr PR Q = 27.62 CFS
A15. ADJACENT LAND-USE, INCLUDING UPSTREAM WATERSHED	THE SURROUNDING AREAS ARE COMPRISED OF RESIDENTIAL PROPERTY AND INDUSTRIAL PROPERTY.
A16. LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS	ALL AREAS WITHIN THE DISTURBED LIMITS SHOWN ON ER-1 WILL BE DISTURBED.
A17. IDENTIFICATION OF EXISTING VEGETATIVE COVER	THE EXISTING VEGETATION IS GRASS AND WOODED AREAS.
A18. SOILS MAP INCLUDING DESCRIPTIONS AND LIMITATIONS	ACCORDING TO USDA NATURAL RESOURCES CONSERVATION SERVICE WEB SURVEY THE FOLLOWING ARE THE SOIL TYPE, DESCRIPTION AND LIMITATION FOR THE PROJECT SITE: UhpA, URBAN LAND-LOARENTS, LOAMY SUBSTRATUM, COMPLEX, TERRACE, 0 TO 3 PERCENT SLOPES.
A19. LOCATIONS, SIZE AND DIMENSIONS OF PROPOSED STORMWATER SYSTEMS	SEE SHEET ER-1
A20. PLAN FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT	THIS PROJECT WILL NOT REQUIRE ANY OFFSITE CONSTRUCTION ACTIVITIES.
A21. LOCATIONS OF PROPOSED SOIL STOCKPILES, BORROW AND/OR DISPOSAL AREAS	THERE MAY BE TEMPORARY STOCK PILE AREAS. THE LOCATIONS OF THEM WILL BE DETERMINED DURING THE CONSTRUCTION PHASE WITH SIGNED APPROVAL FROM THE PROPERTY OWNERS. NECESSARY MEASURES WILL BE IMPLEMENTED TO MINIMIZE EROSION.
A22. EXISTING SITE TOPOGRAPHY	SEE ATTACHED SHEET ER-1.
A23. PROPOSED FINAL TOPOGRAPHY	SEE ATTACHED SHEET ER-1.
A24. ESTIMATE OF THE TOTAL IMPERVIOUS SURFACE AREA, IN SQUARE FEET, ON THE FINAL PROJECT SITE	250,704 S.F.

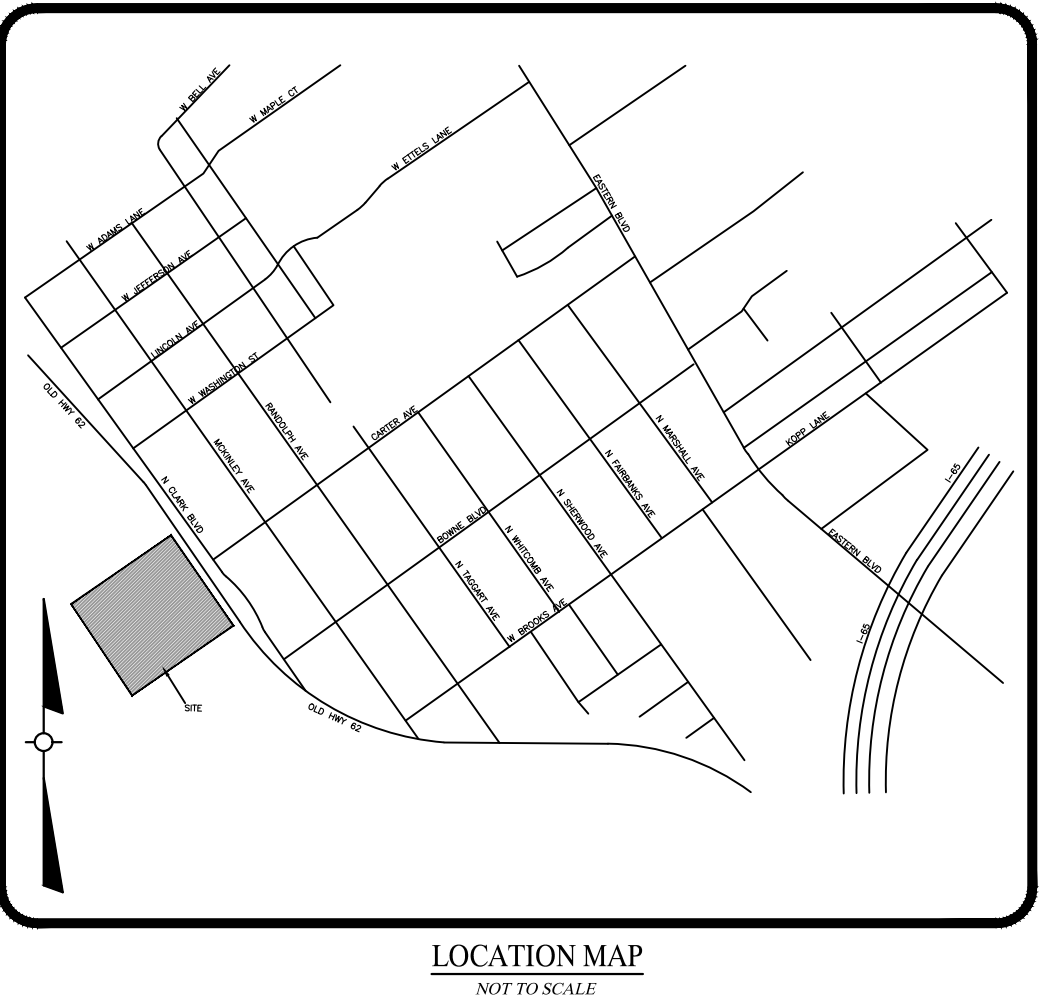
B1. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES	POTENTIAL POLLUTANT SOURCES ON THIS PROJECT INCLUDE FUELING ACTIVITIES, EMISSIONS FROM COMBUSTIBLE ENGINES AND OTHER FLUIDS LEAKING FROM CONSTRUCTION EQUIPMENT, SEDIMENT DUST AND CONCRETE WASHOUT. THE POTENTIAL POLLUTANTS INCLUDE GASOLINE, DIESEL FUEL, ANTIFREEZE, ENGINE OIL AND HYDRAULIC OIL AND BITUMINOUS ASPHALT. PROCEDURES WILL BE INITIATED IN AN EFFORT TO MINIMIZE THE POSSIBILITY OF THESE POLLUTANTS ENTERING STORMWATER. THE CONTRACTOR IS REQUIRED TO USE SAFETY PRECAUTIONS PRESCRIBED BY OSHA STANDARD PROCEDURES WHEN HANDLING, FUELING, AND OPERATING/SERVICING/MAINTAINING CONSTRUCTION EQUIPMENT ON THIS PROJECT SITE. THE CONTRACTOR IS REQUIRED BY ENVIRONMENTAL REGULATIONS TO REPORT, CLEAN AND RESTORE ANY AND ALL SPILLAGE FROM CONSTRUCTION ACTIVITIES EXPEDITIOUSLY. ADDITIONALLY, THE OPERATORS OF SAID EQUIPMENT WILL MONITOR THE EQUIPMENT REGULARLY WHILE IT IS IN USE TO ENSURE THAT NO POLLUTANTS ARE LEAKING FROM SAID EQUIPMENT.
B2. SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND DISTURBING ACTIVITIES	REFER TO SHEET ER-1 (PHASING AND SEQUENCING)
B3. STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS	SEE SHEET ER-1 FOR VEHICLE WASH OFF AREA LOCATION AND CONSTRUCTION ENTRANCE.
B4. SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS	EXISTING VEGETATION WILL BE LEFT UNDISTURBED WHERE POSSIBLE. STONE BAG INLET PROTECTION WILL BE PLACED AT EXISTING AND PROPOSED CATCH BASINS.
B5. SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS	CONCENTRATED FLOW AREAS WILL RECEIVE SANDY BAGS FOR INLET PROTECTION AS DIRECTED BY ENGINEER. ALL NATURAL DITCH LINES AND SWALES WHEN FINAL GRADE IS COMPLETED OR INACTIVE FOR MORE THAN FIFTEEN DAYS WILL FOLLOW GUIDELINES LISTED BELOW IN B11 OR B12 AS APPROPRIATE.
B6. STORM SEWER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS	PIPE INLET PROTECTION WILL BE ADDED AS EACH PIPE IS INSTALLED. SEE SHEET ER-1.
B7. RUNOFF CONTROL MEASURES	SILT FENCE WILL BE UTILIZED AS NEEDED.
B8. STORMWATER OUTLET PROTECTION SPECIFICATIONS	NOT APPLICABLE
B9. GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS	PROPOSED CONTROL BLANKETS TO BE INSTALLED ON ALL SLOPES STEEPER THAN 20% DISTURBED.
B10. LOCATION, DIMENSIONS, SPECS & CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE	STONE BAG DAMS WILL BE USED IN AREAS OF CONCENTRATED FLOWS IF DETERMINED NECESSARY BY THE ENGINEER.
B11. TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON	ANY AREA THAT REMAINS DISTURBED BUT INACTIVE FOR A PERIOD OF MORE THAN FIFTEEN DAYS IS TO RECEIVE TEMPORARY SEEDING WITH WHEAT, OR IS TO RECEIVE A STRAW BLANKET COVER PUNCHED IN THE SOIL TO KEEP IT IN PLACE.
B12. PERMANENT SURFACE STABILIZATION SPECIFICATIONS	ONCE FINAL GRADING IS COMPLETED, THESE AREAS SHALL BE SEEDDED THOROUGHLY AND TILED BY DISKING, HARROWING OR OTHER APPROVED METHODS UNTIL THE CONDITION OF THE SOIL IS ACCEPTABLE TO THE CLARK COUNTY ENGINEER WITHIN THE RIGHT OF WAY AND THE JEFFERSON SEWER BOARD WITHIN THE SEWER EASEMENT. SEED SHALL BE BROADCAST EITHER BY HAND OR APPROVED SOWING EQUIPMENT, UNIFORMLY OVER THE AREA. THE SEED SHALL BE DRILLED OR RAKED A DEPTH OF APPROXIMATELY ONE HALF INCH (1/2") AND THE SEEDING AREAS SHALL BE LIGHTLY RAKED TO COVER THE SEED. ALL RIDGES SHALL BE SMOOTHED OUT AND ALL FURROWS AND WHEEL TRACKS, LIKELY TO DEVELOP INTO WASHES, SHALL BE REMOVED. THE SEED PER ACRE SHALL BE 50 POUNDS OF PERENNIAL RYE GRASS AND 100 POUNDS OF KENTUCKY 31 FESCUE, AND ONE AND ONE HALF BUSHELS OF SPRING OATS PER ACRE. FERTILIZER SHALL BE APPLIED AT THE RATE OF 800 POUNDS OF 12-12-12, OR EQUIVALENT, PER ACRE AND SHALL BE INCORPORATED INTO THE SOIL A DEPTH OF AT LEAST TWO (2) INCHES. THE INCORPORATION OF THE FERTILIZER MAY BE PART OF THE TILLAGE OPERATION AND SHALL BE APPLIED NOT LESS THAN 24 HOURS NOR MORE THAN 48 HOURS BEFORE THE SEED IS SOWN. AFTER THE SEED HAS BEEN SOWN, THE AREAS SO SEEDDED SHALL BE MULCHED WITH CLEAN STRAW AT THE RATE OF ONE (1) BALE PER 1,000 SQUARE FEET (APPROXIMATELY TWO INCHES LOOSE DEPTH) AND THOROUGHLY WATERED. THE CONTRACTOR SHALL APPLY THE SPECIFIED VEGETATION WITH THE CONSIDERATION OF SEASONAL PLANTING TIMES. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES THAT WILL ALLOW FINAL SEEDING OF THE SITE TO BE COMPLETED IN THE LATE FALL OR EARLY SPRING. IF CONSTRUCTION ACTIVITIES DO NOT ALLOW FINAL SEEDING TO OCCUR AT THE OPTIMAL TIME, THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES TO SECURE THE SITE FROM POTENTIAL PROBLEMS.
B13. MATERIAL HANDLING AND SPILL PREVENTION PLAN	THE CONTRACTOR SHALL PROVIDE SPILL CONTAINMENT DIKES OR SECONDARY CONTAINMENT AROUND STORED OIL AND CHEMICAL DRUMS. DURING PAVING OPERATIONS THE CONTRACTOR SHALL STORE MATERIALS AWAY FROM WATER COURSES. DRIP PANS OR ABSORBENT MATERIAL SHALL BE PLACED UNDER PAVING EQUIPMENT WHEN NOT IN USE. THE CONTRACTOR SHALL COVER CATCH BASINS AND MANHOLES WHEN APPLYING SEAL COAT, TACK COAT, SLURRY SEAL, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN UP AND MANAGEMENT OF SOLID WASTES THAT INCLUDE BUT ARE NOT LIMITED TO: PACKAGING MATERIALS INCLUDING WOOD, PAPER AND PLASTIC, SCRAP OR SURPLUS BUILDING MATERIALS, CONCRETE, DOMESTIC WASTES (FOOD CONTAINERS, COFFEE CUPS, AND PLASTIC WRAPPERS), WASTE CONTAINERS SHALL BE PLACED IN DESIGNATED AREAS THAT ARE SITUATED AWAY FROM STORM DRAIN INLETS, STORM WATER FACILITIES, OR WATERWAYS. THE CONTRACTOR SHALL MAKE SURE THAT TOXIC LIQUID WASTES (USED OILS, SOLVENTS AND PAINTS) AND CHEMICALS (ACIDS, PESTICIDES, ADDITIVES, CURING COMPOUNDS) ARE NOT DISPOSED OF IN DUMPSTERS DESIGNATED FOR CONSTRUCTION DEBRIS. SPILL PREVENTION AND CONTROL APPLIES TO CHEMICALS AND HAZARDOUS SUBSTANCES INCLUDING: SOIL STABILIZERS, HERBICIDES, FERTILIZERS, FUELS, LUBRICANTS AND OTHER PETROLEUM DISTILLATES. IF SPILLS OCCUR, THE AREA SHALL BE CLEANED UP IMMEDIATELY USING THE APPROPRIATE MEASURES THAT PROVIDE A SAFE MEANS FOR CLEANING AND REMOVAL OF CONTAMINANTS. THE FOLLOWING MEASURES SHOULD BE UTILIZED FOR BEST MANAGEMENT PRACTICES CONCERNING SPILL PREVENTION AND CLEANUP: IN CASE OF SPILL CALL IDEM SPILL REPORTING LINE (888) 233-7745 1. HAZARDOUS MATERIALS AND WASTES SHOULD BE STORED IN COVERED CONTAINERS AND PROTECTED FROM VANDALISM 2. PLACE A STOCKPILE OF SPILL CLEANUP MATERIALS WHERE IT WILL BE READILY ACCESSIBLE. 3. TRAIN EMPLOYEES IN SPILL PREVENTION AND CLEANUP PROCEDURES FOR THE SITE.

GENERAL RULES CONCERNING THE CLEANUP OF CONTAMINANTS:
1. CLEAN UP LEAKS AND SPILLS IMMEDIATELY.
2. ON PAVED SURFACES, CLEAN UP SPILL WITH AS LITTLE WATER AS POSSIBLE. USE A RAG FOR SMALL SPILLS, A DAMP MOP FOR GENERAL CLEANUP, AND ABSORBENT FOR LARGE SPILLS. IF THE MATERIAL IS HAZARDOUS, THEN THE USED CLEANUP MATERIAL ARE ALSO HAZARDOUS AND MUST BE SENT TO EITHER A CERTIFIED LAUNDRY OR DISPOSED OF AS A HAZARDOUS WASTE.
3. NEVER HOSE DOWN OR BURY DRY MATERIAL SPILLS. CLEAN UP AS MUCH OF THE MATERIALS POSSIBLE AND DISPOSE OF PROPERLY.
SIGNIFICANT OR HAZARDOUS SPILLS THAT CANNOT BE CONTROLLED BY PERSONNEL IN THE IMMEDIATE VICINITY, SHALL IMPLEMENT THE FOLLOWING STEPS:
1. NOTIFY THE ENGINEER IMMEDIATELY.
2. STRIVE FOR CONTAINMENT OF THE SPILL.
3. PLUG OR OTHERWISE SEAL OFF LEAKING VESSELS OR PIPES, IF POSSIBLE.
4. NOTIFY THE LOCAL EMERGENCY RESPONSE BY DIALING 911. IN ADDITION TO 911, THE CONTRACTOR WILL NOTIFY THE PROPER COUNTY OFFICIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL EMERGENCY PHONE NUMBERS AT THE CONSTRUCTION SITE. CONTRACTOR SHALL ALSO NOTIFY IDEM'S 24 HOUR EMERGENCY SPILL LINE AT (888) 233-7745.
5. IF SPILLED MATERIALS ENTER A WATERWAY, DO NOT USE CHEMICALS TO DISPERSE, EMULSIFY OR SINK THE OIL OR HAZARDOUS SUBSTANCE, UNLESS OTHERWISE ADVISED BY THE STATE OR FEDERAL OFFICIALS. CONTAIN THE SPILL MATERIAL ON THE SURFACE USING BOOMS OR OTHER BARRIERS.

B14. MONITORING & MAINTENANCE GUIDELINES FOR EACH PROPOSED POLLUTION PREVENTION MEASURE	THE CONTRACTOR WILL UTILIZE A QUALIFIED PROFESSIONAL INSPECTOR (QPI) AND MONITOR ALL POLLUTION PREVENTION MEASURES AT LEAST ONCE A WEEK. ADDITIONALLY, THE QPI WILL INSPECT ALL POLLUTION PREVENTION MEASURES WITHIN 24 HOURS OF ANY RAIN EVENT PRODUCING 1/2 INCH OR MORE PRECIPITATION. SHOULD ANY DEFICIENCIES BE DISCOVERED, THE CONTRACTOR WILL REMEDY SAID DEFICIENCIES.
B15. EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS	•NOT APPLICABLE•
C1. DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE	POLLUTANTS: THE EXPECTED POLLUTANTS TO BE GENERATED BY THIS SITE SHOULD BE TYPICAL OF A COMMERCIAL COMPLEX. SOME OF THOSE SOURCES INCLUDE FLUIDS FROM AUTOMOBILES LIKE OIL, GREASE, FUEL, ANTIFREEZE, AND BRAKE FLUID, PLUS PARTICULATES CREATED BY OR CARRIED ON VEHICLES AND DEPOSITED ON THE SITE SUCH AS BRAKE DUST, RUBBER FRAGMENTS FROM TIRES, AND DIRT PICKED UP FROM OR CARRIED ONTO THE SITE.
C2. SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION	SEE SHEET ER-1.
C3. DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER QUALITY MEASURES	THE STORM WATER WILL FLOW INTO PROPOSED CATCH BASINS AND INTO MILL CREEK.
C4. LOCATION, DIMENSIONS, SPECS & CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE	SEE SHEET ER-1.
C5. DESCRIPTION OF MAINTENANCE GUIDELINES FOR PROPOSED POST CONSTRUCTION WATER QUALITY MEASURES	1. MAINTENANCE OF ALL STORM WATER POLLUTION PREVENTION MEASURES WILL BE THE RESPONSIBILITY OF THE FACILITY OPERATIONS DEPARTMENT. 2. THE MAINTENANCE GUIDELINES CONSIST MOSTLY OF GOOD HOUSEKEEPING MEASURES. 3. ANY GRASSES OR VEGETATED AREAS THAT EXPERIENCE EROSION FROM RAINFALL EVENTS SHALL BE REPAIRED AND RE-VEGETATED AS SOON AS POSSIBLE. 4. TRASH OR LITTER SHALL BE PICKED UP AND PROPERLY DISPOSED TO PREVENT IT FROM GETTING INTO THE STORM DRAINAGE SYSTEM AND DOWNSTREAM WATERWAYS. 5. PAVEMENT AREAS SHALL ALSO BE MONITORED FOR POLLUTANTS. ANY LARGE QUANTITY OF FLUIDS SUCH AS OIL, ANTIFREEZE, BRAKE FLUID, ETC. FOUND ON THE PAVEMENT SHALL BE REPORTED TO THE OFFICE AND THE SOURCE DETERMINED, IF POSSIBLE, AND REMOVED FROM THE SITE FOR MAINTENANCE OR REPAIR. CHANGEMENTS SHALL ALSO BE MONITORED FOR SEDIMENT COMING FROM VEGETATED AREAS THAT DRAIN ONTO THE PAVEMENT. IF SEDIMENT IS FOUND IT SHALL BE CLEANED OFF THE PAVEMENT, AND THE SOURCE OF THE SOIL FOUND AND REPAIRED AS DISCUSSED ABOVE.



SOILS MAP
NOT TO SCALE



dTb
db tarr
& company
8728 W. Co. Rd. 175 S.
French Lick, IN 47432
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812.278.0060



NOT FOR
CONSTRUCTION

Town of Clarksville
Public Works Facility
1 Leuthart Drive
Clarksville, IN 47129



Produced By: CGH
Coordinated By: CGH
Q.C. Checked By: DVSD

PROJECT STATUS	
TRC SUBMITTAL No. 1	8/21/2020

EROSION CONTROL
DETAILS

ER-2

GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIAL, EQUIPMENT, TOOLS, AND SERVICES REQUIRED TO COMPLETE CONSTRUCTION AND MATERIAL TESTING FOR THE WORK. ALL WORK SHALL BE PERFORMED IN A SAFE AND REASONABLE MANNER IN ACCORDANCE WITH THE BEST PRACTICES AND PROCEDURES.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL, ORDINANCES, REGULATIONS AND REQUIREMENTS NECESSARY TO COMPLETE THE WORK; THIS INCLUDES PROVISIONS FOR MAINTENANCE OF TRAFFIC, CONSTRUCTION AND THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).

PAVEMENTS

1. ASPHALT CONCRETE SURFACE SHALL BE CLASS I TYPE A, COMPACTED DEPTH AS SHOWN.
2. ASPHALT CONCRETE BINDER SHALL BE CLASS I COMPACTED DEPTH AS SHOWN.
3. STONE BASE AND SUBBASE SHALL BE PLACED AND COMPACTED IN SEPARATE COURSES.
4. TACK COAT SHALL BE APPLIED AT THE RATE OF 0.1 GALLONS PER SQ. YD. WITH INSTALLATION OF SURFACE ASPHALT, WHEN THE FINAL SURFACE ASPHALT INSTALLATION OCCURS AT A DIFFERENT TIME THAN THAT OF THE ASPHALT BASE COURSE, AND ASPHALT TACK COAT SHALL BE APPLIED AT THE SAME RATE OF 0.1 GALLONS PER SQ. YD. THE ASPHALT TACK COAT SHALL BE APPLIED UNIFORMY AND OUT TO THE EDGES OF THE BASE COURSE TO INSURE PROPER ADHESION OF SURFACES.

SIDEWALKS, CURBS, DRAINAGE

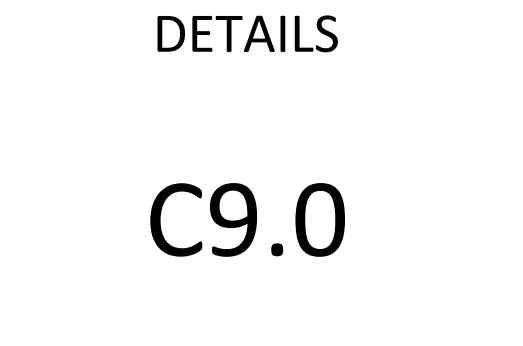
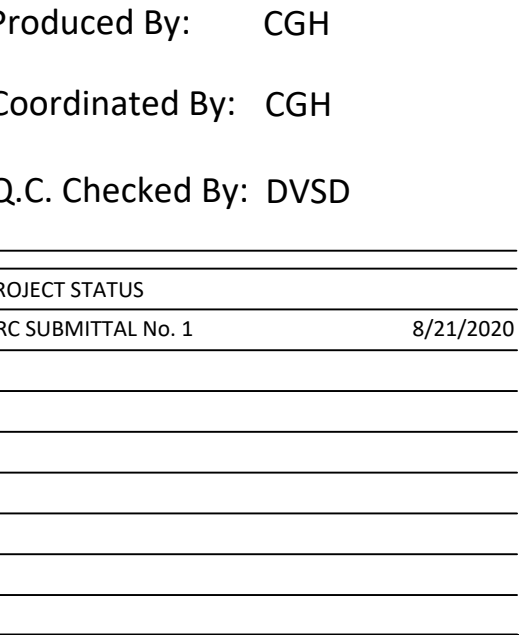
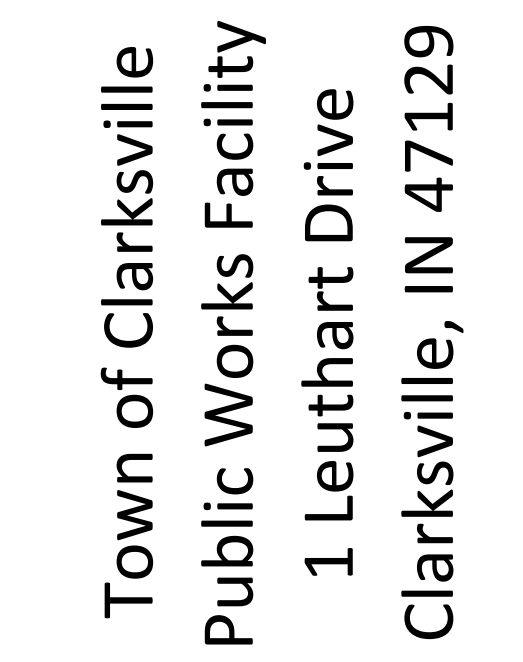
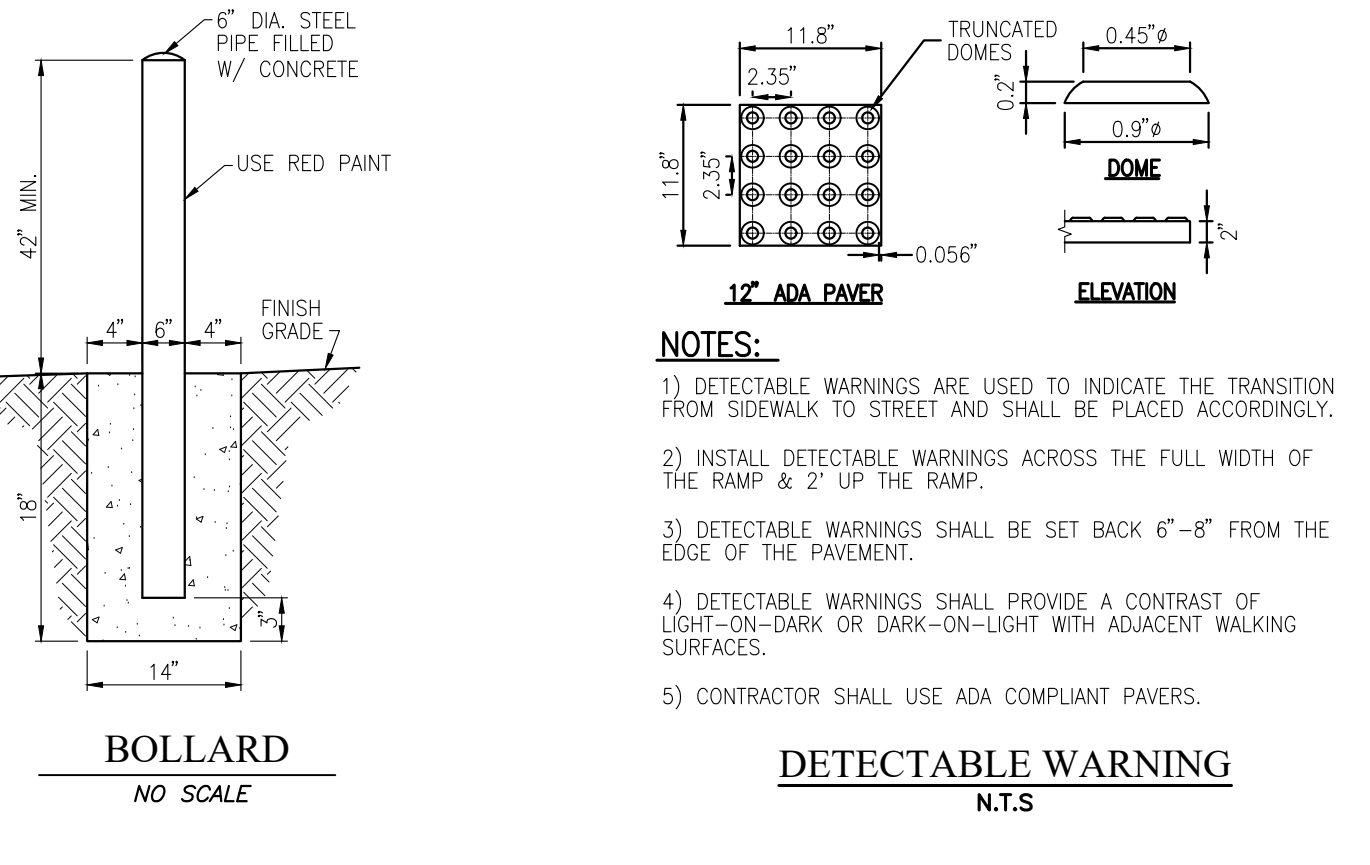
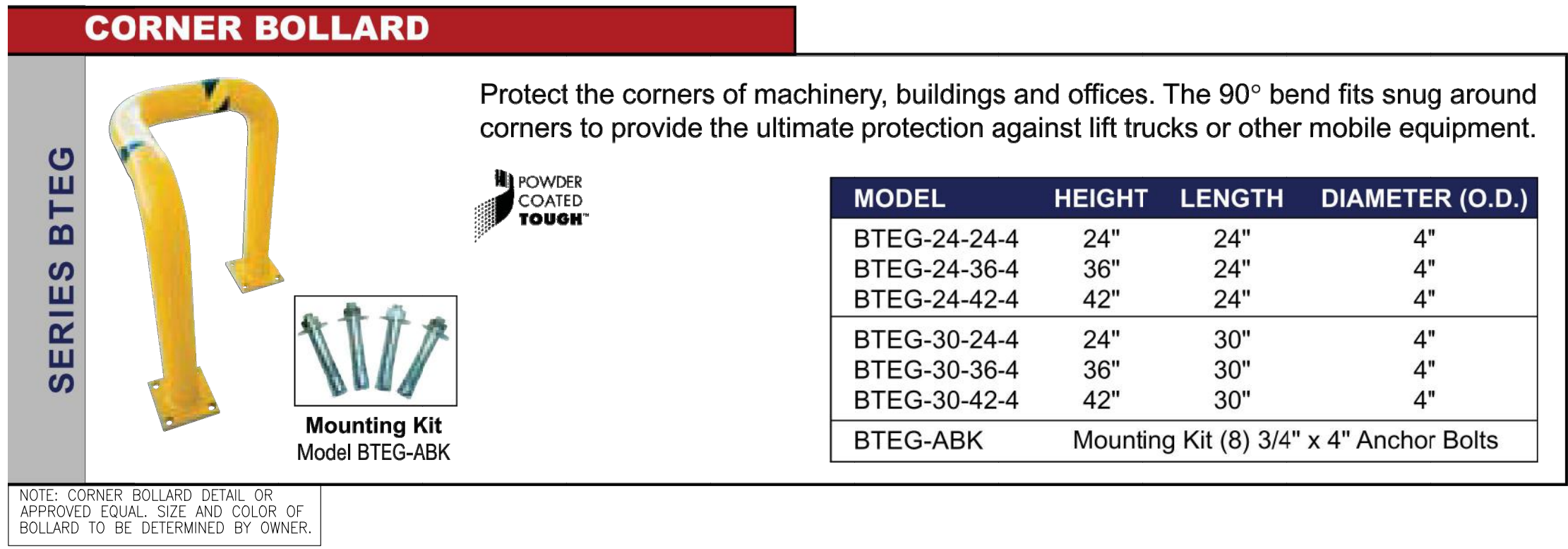
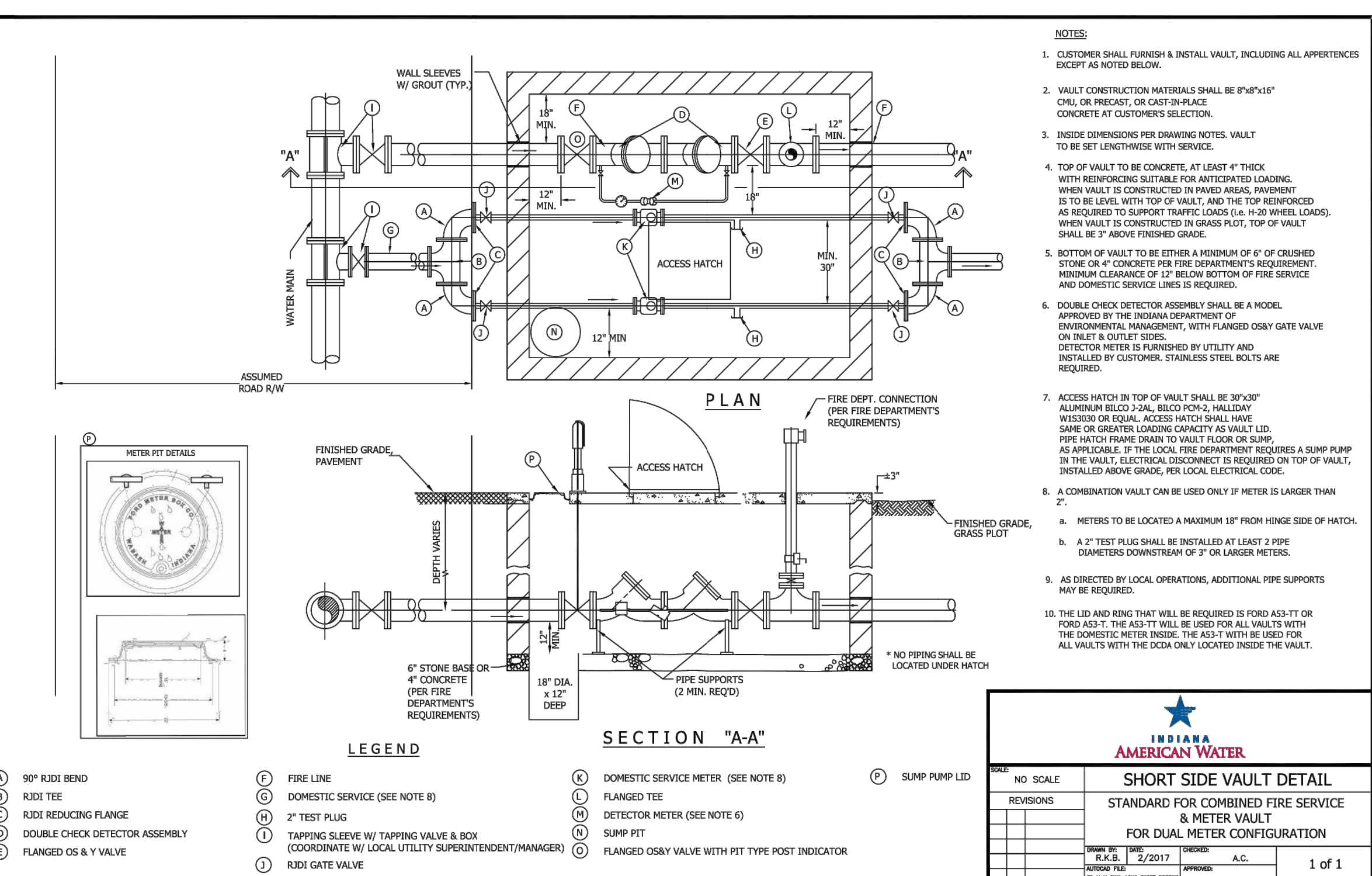
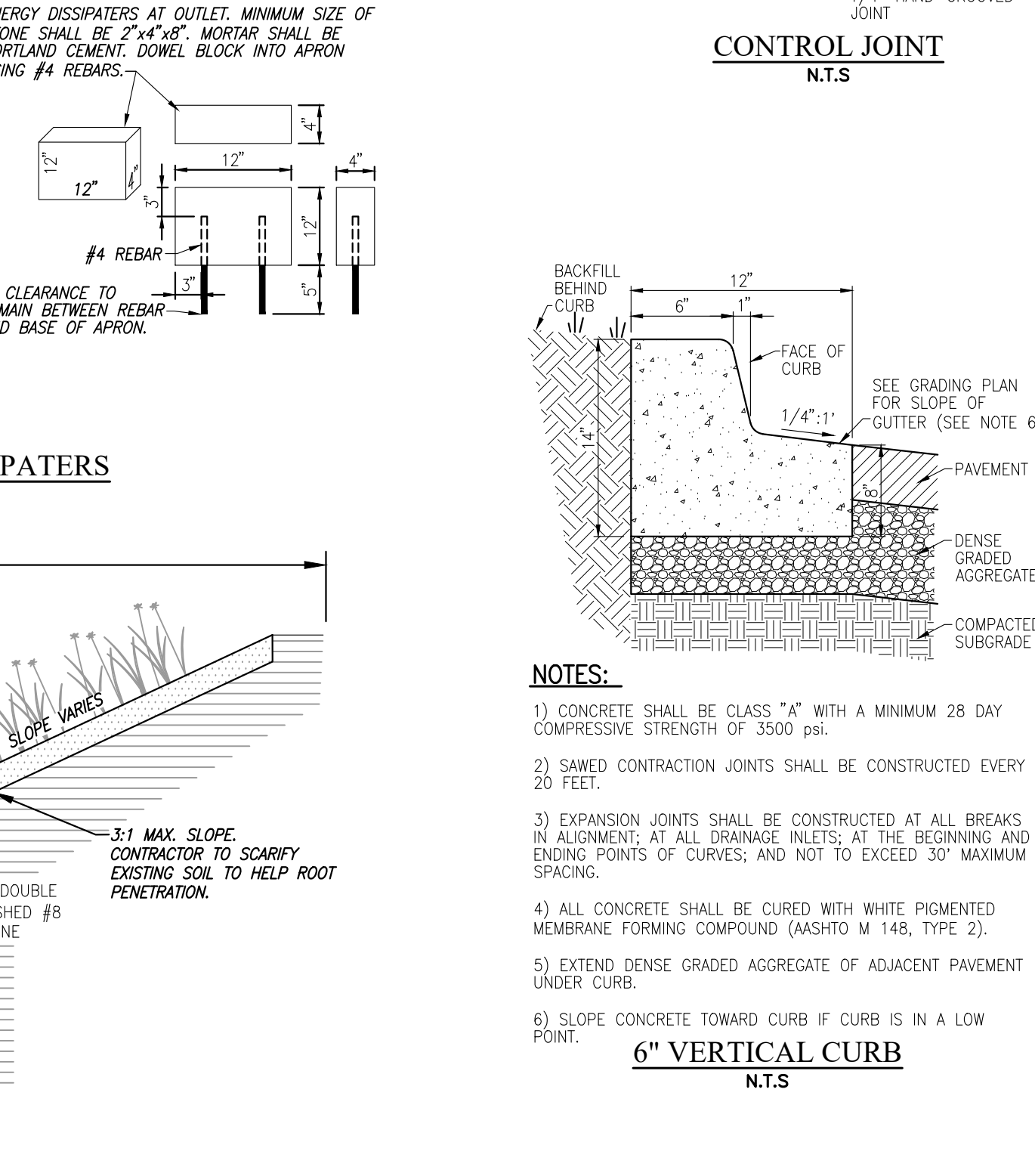
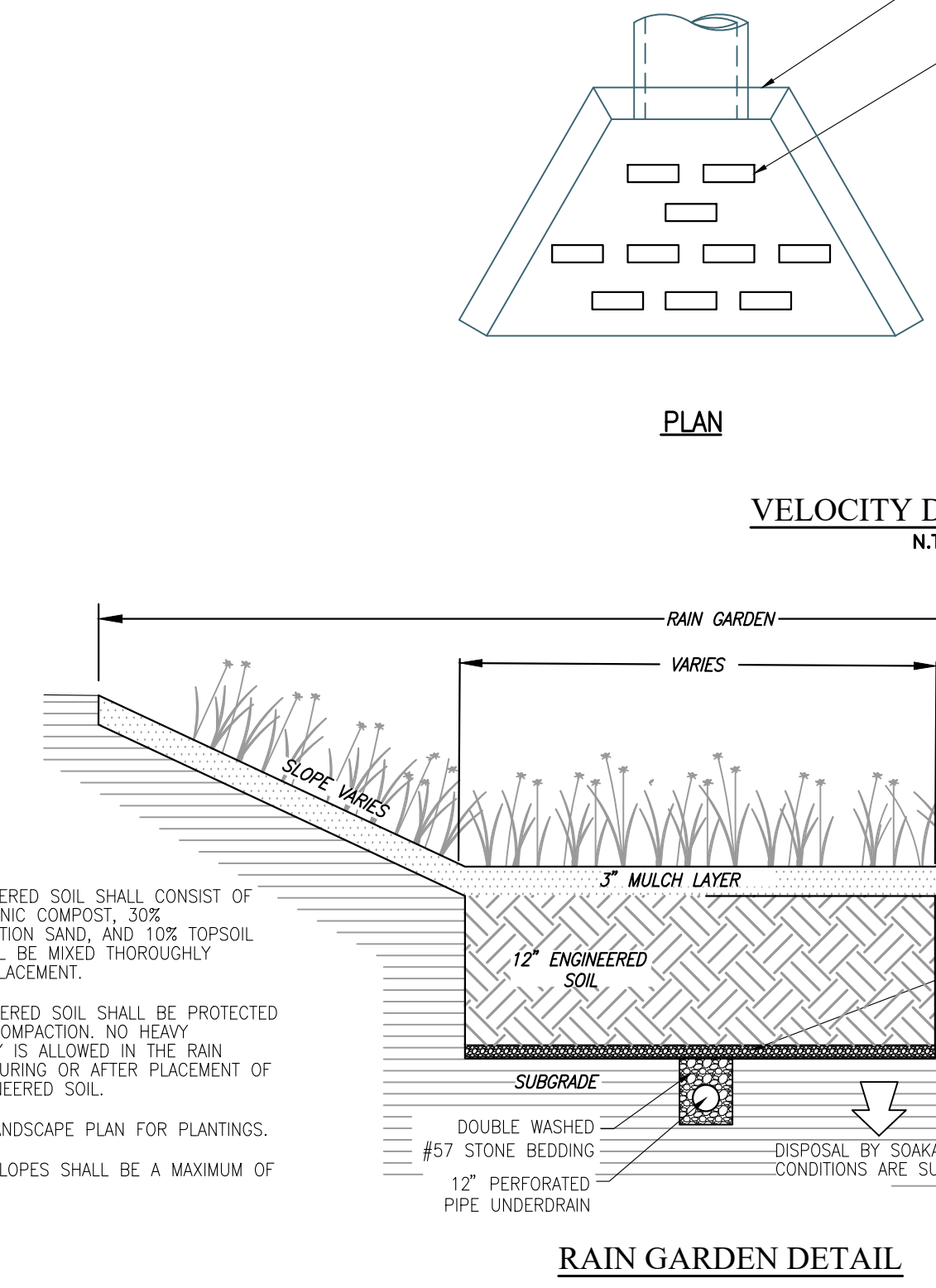
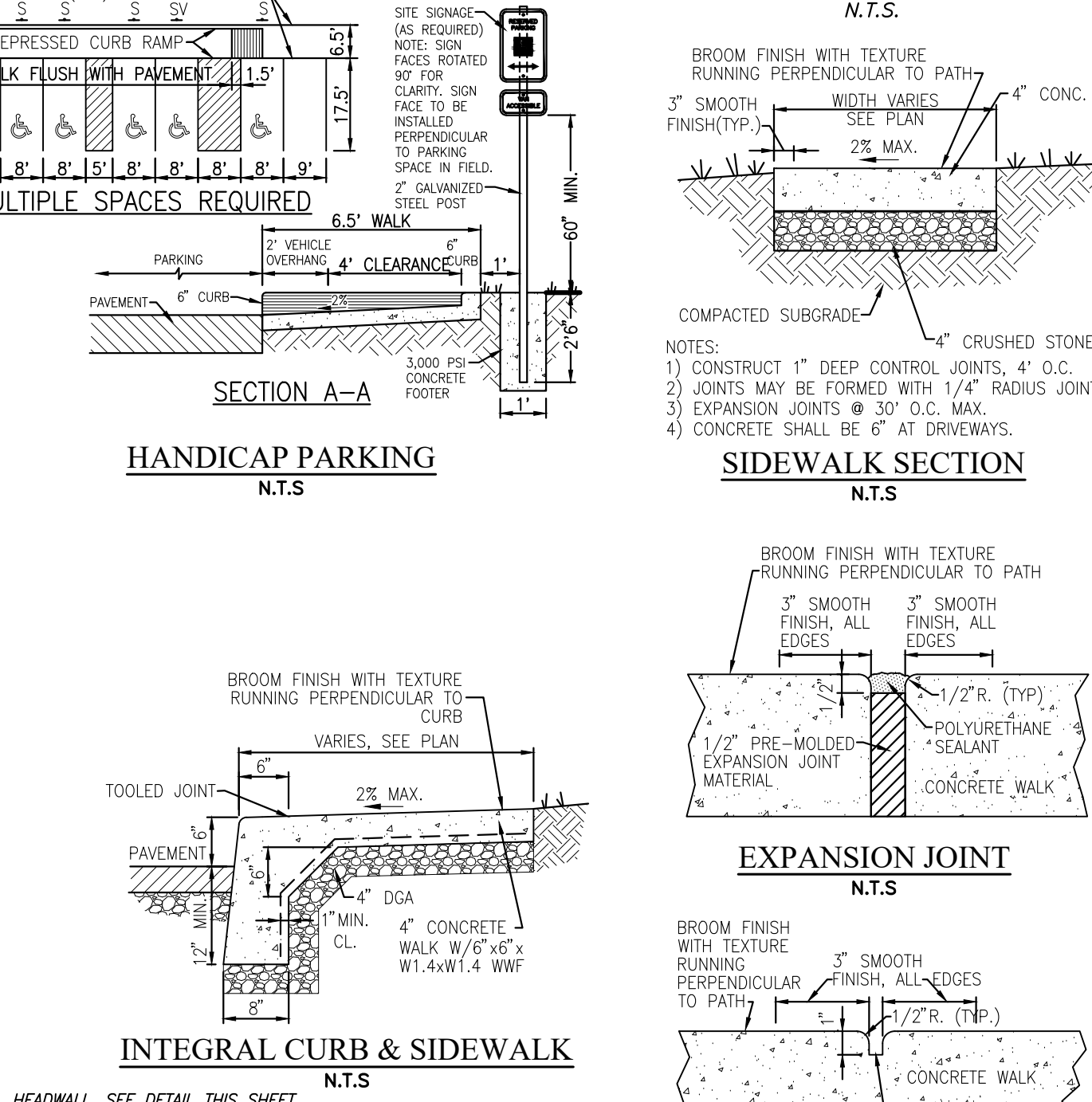
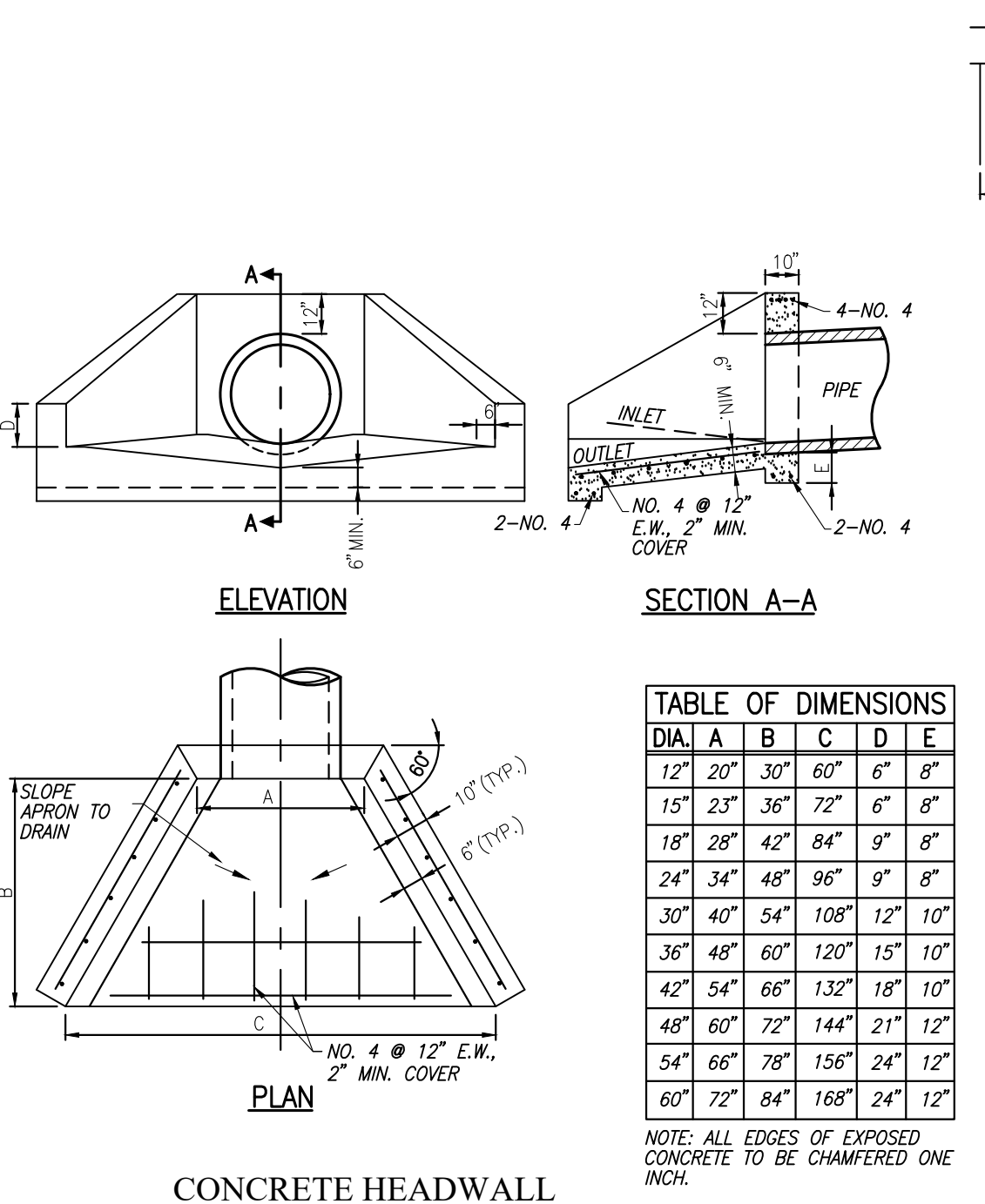
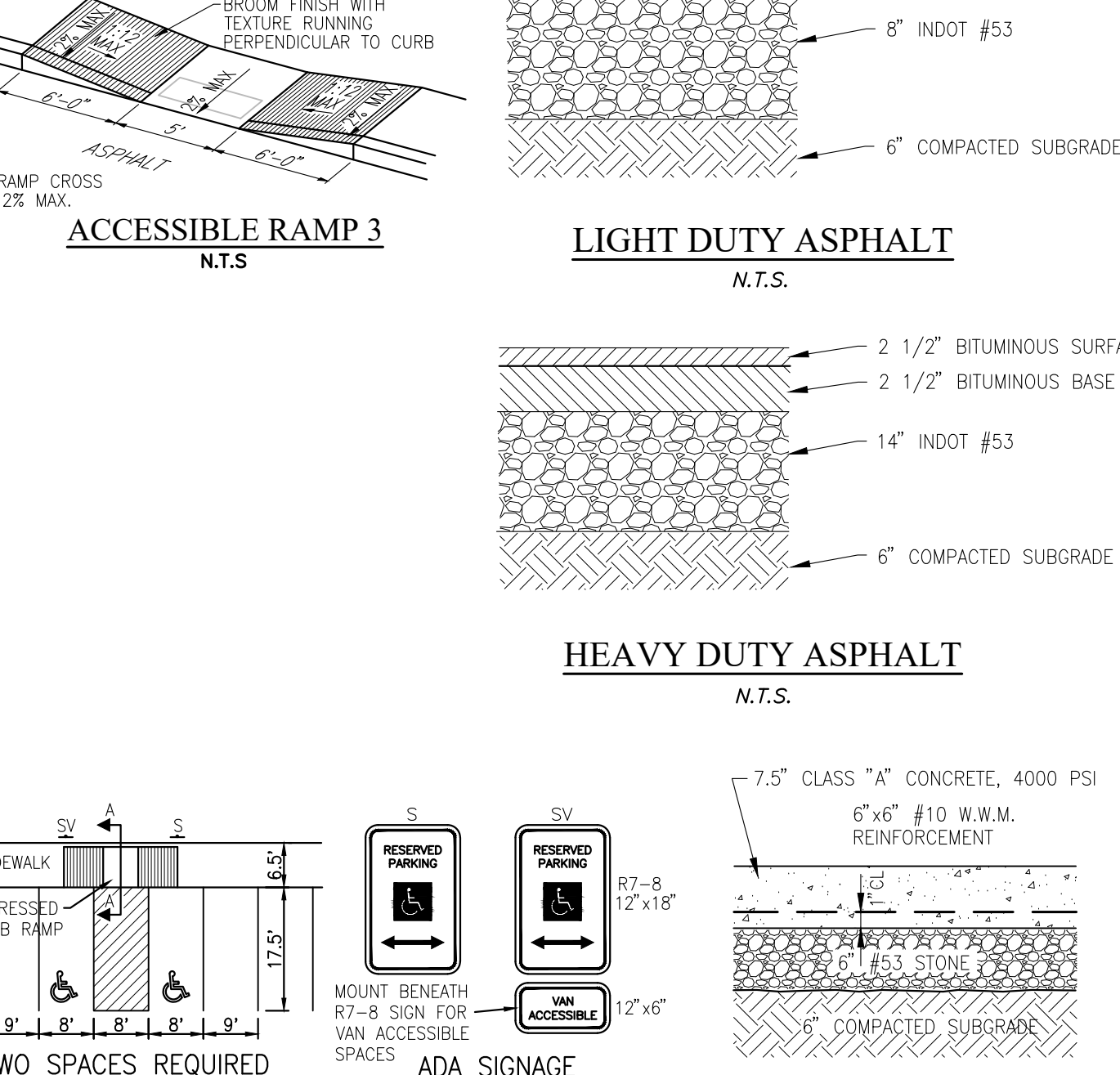
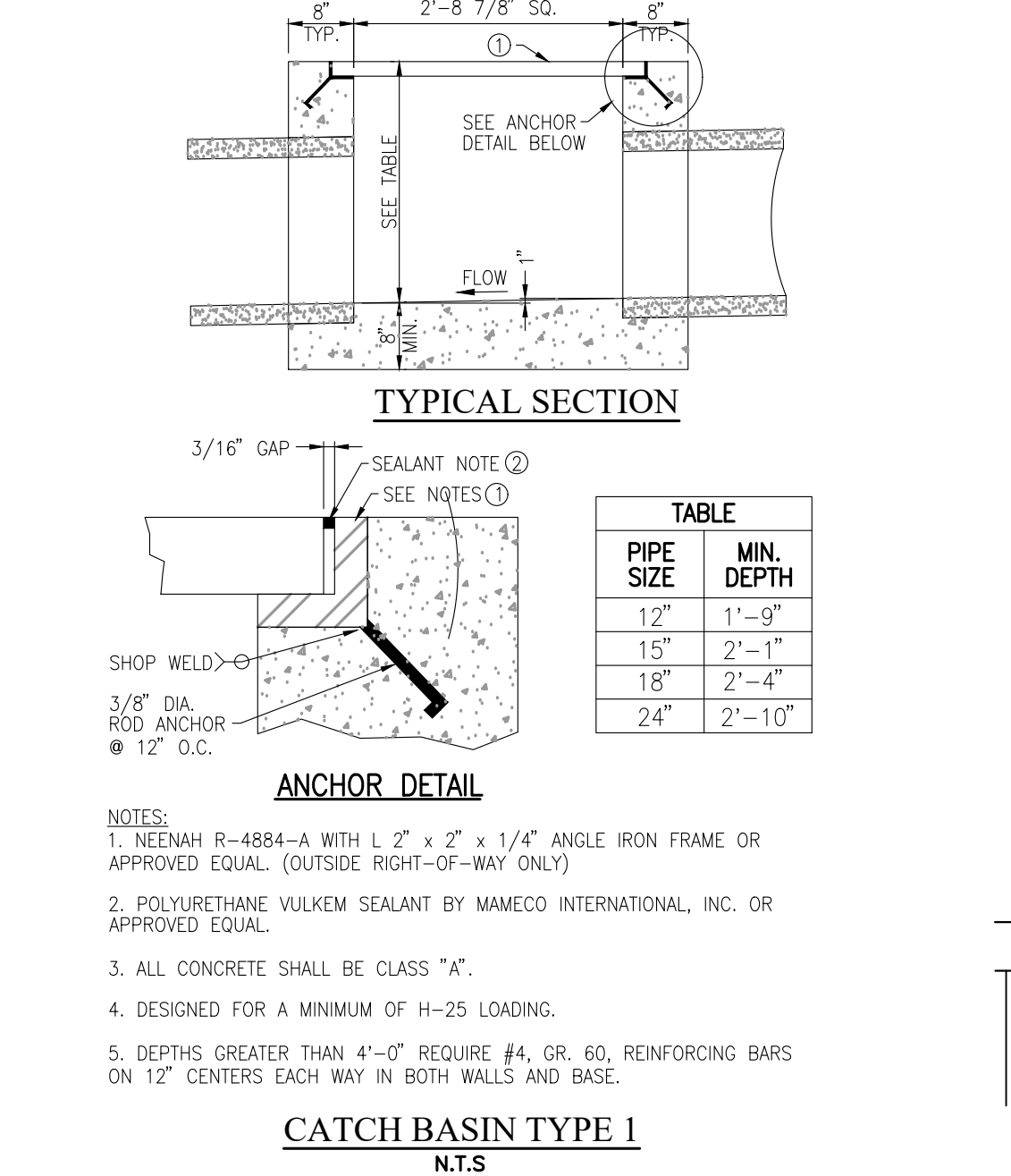
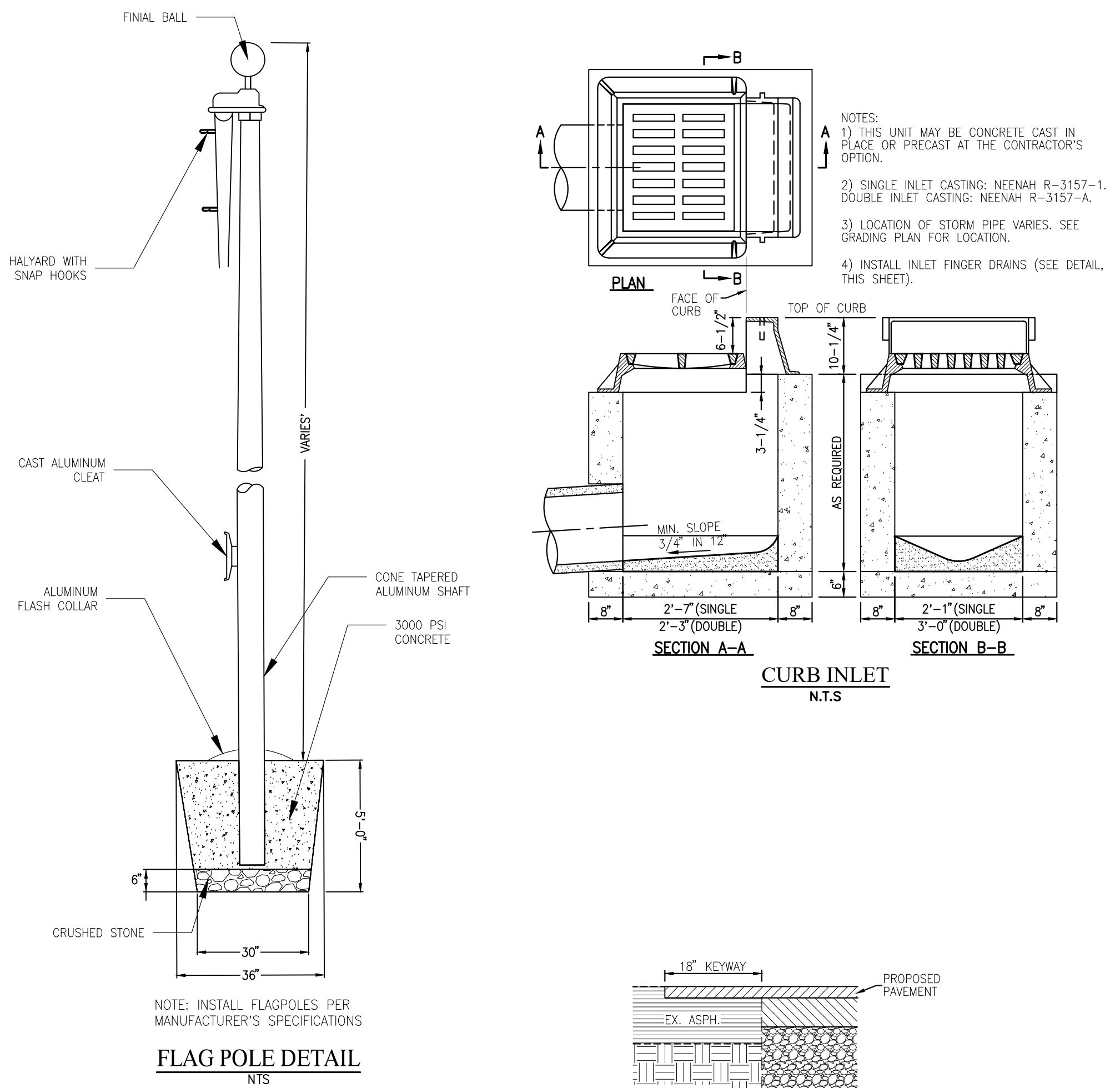
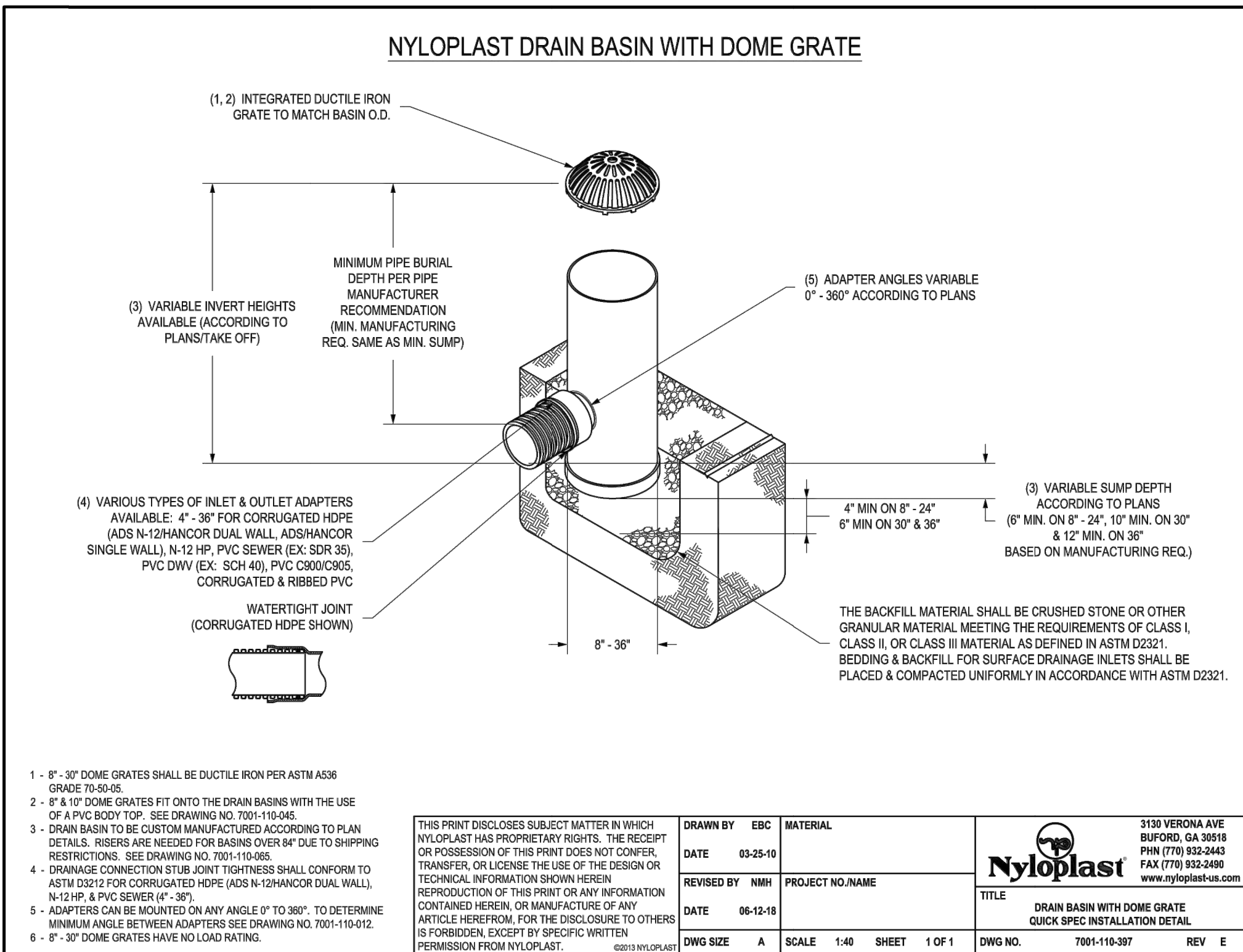
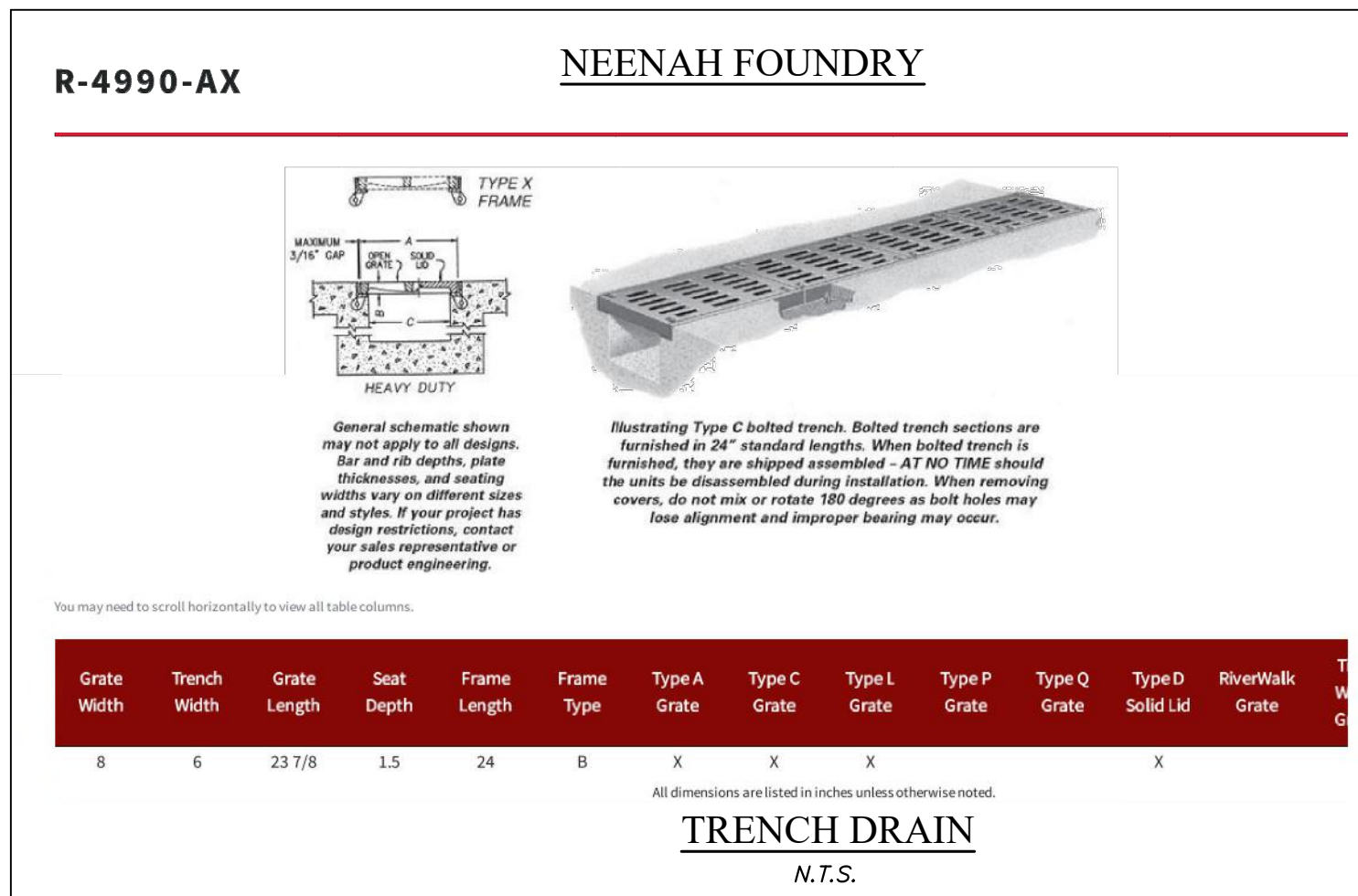
1. ALL CONCRETE TO BE A MINIMUM OF 3,500 PSI UNLESS OTHERWISE SPECIFIED.
2. THE CONTRACTOR SHALL PROVIDE AN EXPANSION JOINT BETWEEN THE CURB AND GRATE ON ALL CURB INLETS.
3. CONSTRUCT 3" EXPANSION JOINTS AT ALL BREAKS IN ALIGNMENT, AT ALL DRAINAGE BOXES AND OTHER FIXED OBJECTS, AT THE BEGINNING AND ENDING POINTS OF CURVES AND AT THE BEGINNING, QUARTER, MIDDLE AND ENDING POINTS OF SEMICIRCULAR CURVES.
4. ON LONG STRAIGHT, LINEAR RUNS OF CURBING, CONSTRUCT EXPANSION JOINTS A MAXIMUM OF EVERY 30' ON CENTER AND CONTROL/SCORE JOINTS EVERY 10' ON CENTER.
5. EXPANSION JOINTS WILL NOT BE REQUIRED AT THE QUARTER POINTS FOR SEMI CIRCLES HAVING RADIUS OF 5' OR LESS.
6. A MINIMUM OF (12) INCH DEPTH OF COVER OVER ALL CULVERT PIPES IS REQUIRED. A MINIMUM OF SIX (6) INCH ENCLOSED CLASS A CONCRETE ENGAGEMENT WITH A MINIMUM PROTECTION INTO THE PAVEMENT STRUCTURE FOR ANY PIPE WITH REDUCED COVER IS REQUIRED.
7. ALL PIPE BACKFILL MUST MEET AASHTO H-20 LOADING REQUIREMENTS.

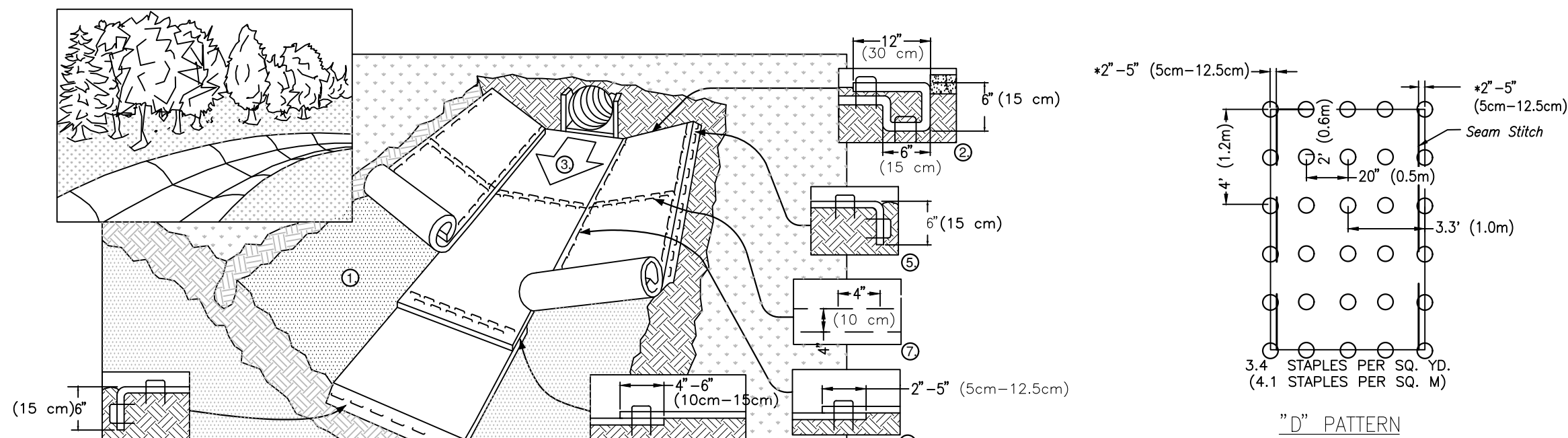
SIGNING & PAVEMENT MARKINGS

1. ALL SIGNS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION.
2. ALL SIGNS SHALL BE RETRO REFLECTIVE INCLUDING MESSAGE, BORDER, AND BACKGROUND.
3. STREET SIGNS SHALL HAVE A WHITE LEGEND ON A GREEN BACKGROUND.
4. REFER TO SECTION 2A.14 LETTERING AND DIMENSIONS
"STANDARD HIGHWAY SIGNS - "BOOK"
"STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS".
5. ALL ARROWS, TRACKING AND STOP BARS SHALL BE THERMOPLASTIC, NOT PAINTED.

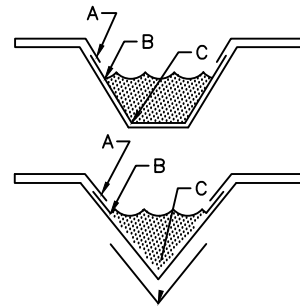
MISCELLANEOUS

1. ALL EMBANKMENT BACKFILL AND SUBGRADE MATERIALS SHALL BE CONSTRUCTED AND COMPACTED TO 95% OF MAXIMUM DENSITY AND PLUS 2 OR MINUS 4 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
2. THE DEVELOPER WILL UTILIZE A REGISTERED GEOTECHNICAL ENGINEER TO TEST, VERIFY AND REPORT TO PROVIDE SATISFACTORY ASSURANCE OF EMBANKMENT AND PAVEMENT STABILITY. ALL EMBANKMENT SECTIONS IN EXCESS OF FOUR (4) FOOT DEPTH SHOULD BE TESTED AT ONE (1) FOOT LAYERS. CONTRACTOR SHALL UTILIZE A REGISTERED GEOTECHNICAL ENGINEER TO TEST, VERIFY AND REPORT ALL EMBANKMENT IN EXCESS OF FOUR (4) FOOT DEPTH.
3. ANY UNSUITABLE SOILS AND OTHER MATERIALS ENCOUNTERED DURING CONSTRUCTION OF THE ROADWAY SECTION WILL BE REMOVED TO THE DEPTH AND WIDTH SPECIFIED BY THE GEOTECHNICAL ENGINEER. THE EXCAVATION WILL BE BACKFILLED WITH SELECTED MATERIALS AND COMPACTED IN ACCORDANCE WITH EMBANKMENT SPECIFICATIONS.
4. CONTRACTOR SHALL NOTIFY OWNER/DEVELOPER BEFORE CONSTRUCTION BEGINS SO THAT OWNER MAY ENGAGE A GEOTECHNICAL ENGINEER FOR COMPACTION TESTING.
5. ACTIONS SHALL BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED ONLY. ANY WORK PERFORMED BY A PUBLIC AGENCY TO CORRECT THE CONDITIONS WILL BE CHARGED TO THE DEVELOPER.
6. THE CONTRACTOR WILL PREGRAZE THE ENTIRE ROADWAY SECTION WITHIN THE RIGHT-OF-WAY LIMITS, INCLUDING THE ROADWAY SHOULDERS, DRAINAGE DITCHES AND ROADWAY CROSS-SECTION AS SHOWN ON THE TYPICAL ROADWAY SECTION PRIOR TO PLACEMENT OF THE ROAD BASE COURSE.
7. ALL FIRE HYDRANTS WILL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ORDINANCES.
8. IF ANY UTILITY LINES ARE ENCOUNTERED DURING CONSTRUCTION, EXTREME CAUTION SHOULD BE EXERCISED AND THE UTILITY COMPANY NOTIFIED IMMEDIATELY. ANY DAMAGES SHALL BE REPAIRED IMMEDIATELY AT THE DIRECTION OF THE UTILITY COMPANY INCLUDING TEMPORARY AND PERMANENT WORK AT NO ADDITIONAL EXPENSE TO OWNER/DEVELOPER.
9. ALL EXISTING TRAFFIC, WARNING, AND REGULATORY SIGNING WILL BE LOCATED, MAINTAINED DURING ALL CONSTRUCTION ACTIVITIES, AND IMMEDIATELY REPLACED AFTER CONSTRUCTION IS COMPLETED BY THE CONTRACTOR.
10. LANDSCAPING SHALL BE SELECTED AND PLACED IN SUCH A MANNER AS TO INSURE ADEQUATE AND SAFE "SIGHT DISTANCE" FOR MOTORIST USING THE ROADS TO BE CONSTRUCTED WITHIN THIS SUBDIVISION.
11. A LANDSCAPING PLAN SHOWING THE TYPE AND LOCATION OF ALL PLANTINGS WITHIN THE ROAD RIGHT-OF-WAY SHALL BE PREPARED AND SUBMITTED FOR APPROVAL. THE ULTIMATE (OR MATURE) HEIGHT AND SPREAD OF THE VARIOUS TYPES OF PLANTINGS SHALL BE SPECIFIED ON THE PLAN.





1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIM, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-0-SEED DO NOT SEED PREPARED AREA. CELL-0-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE. AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" (10cm-15cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5cm-12.5cm) (DEPENDING ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9m-12m) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL. 8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

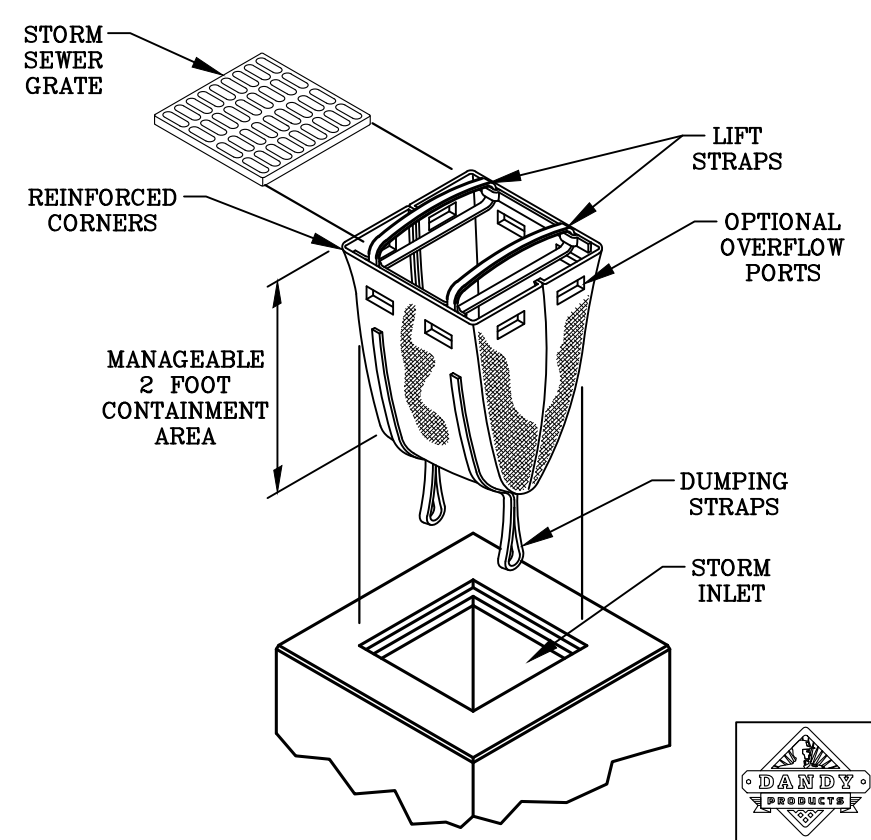


CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTE:
• HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
• IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

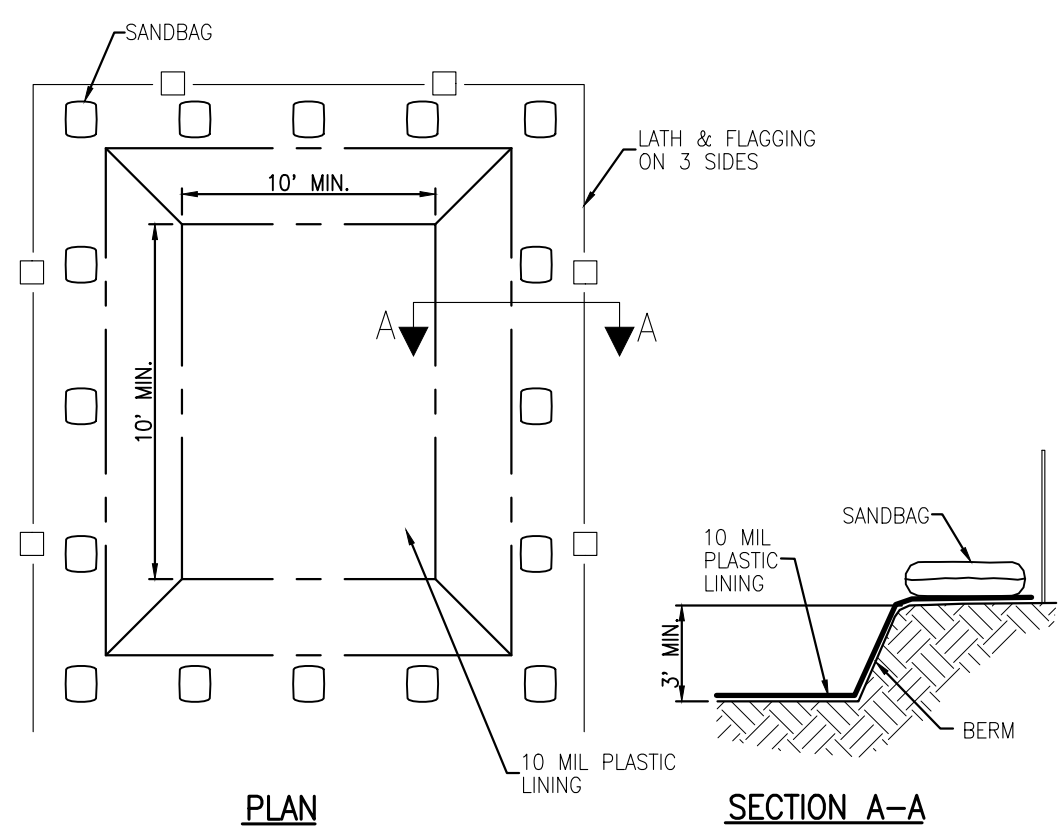
EROSION CONTROL BLANKET INSTALLATION

NOT TO SCALE



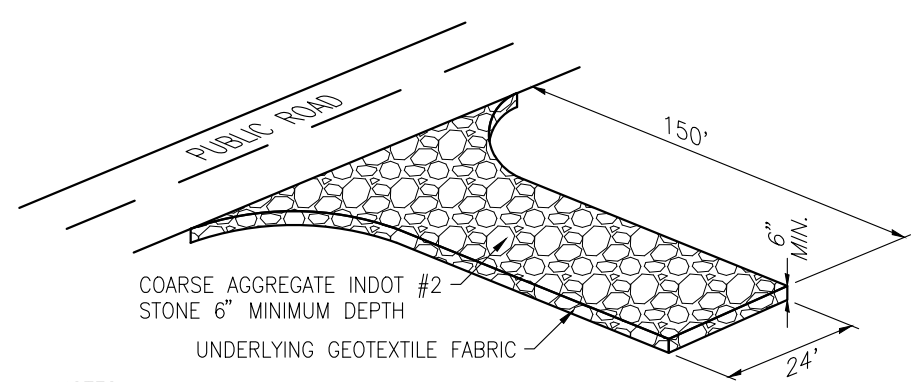
DANDY SACK

N.T.S.



CONCRETE WASHOUT AREA

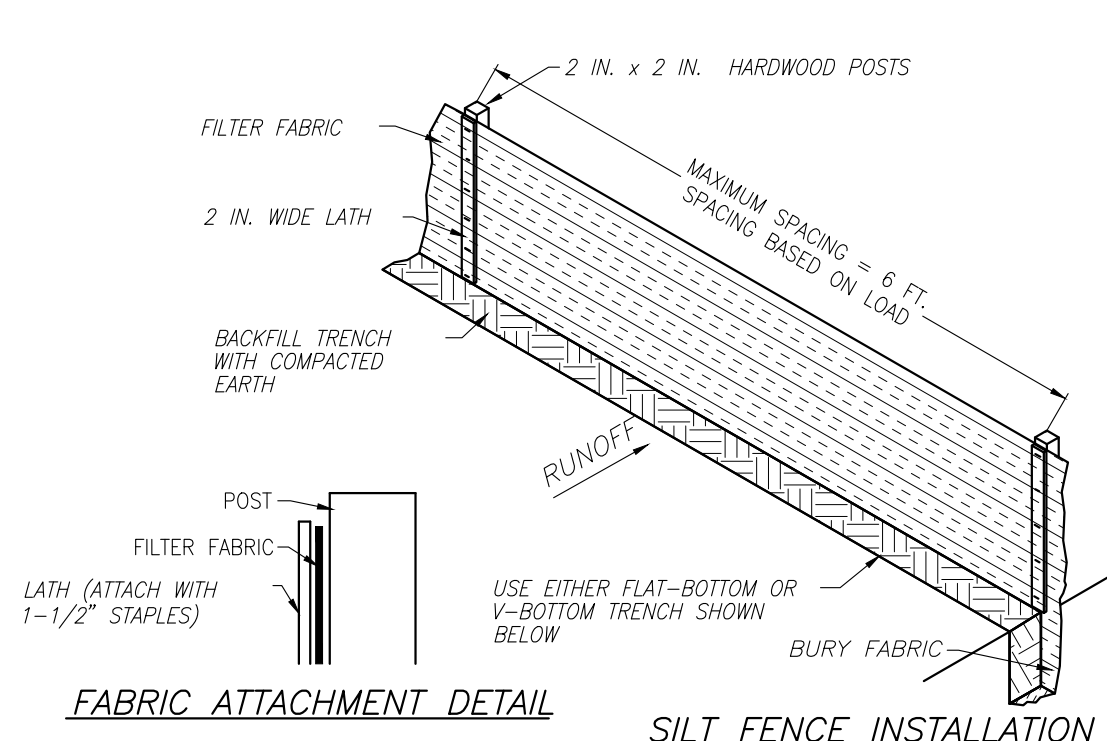
N.T.S.



- NOTES:
1) INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
2) DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.

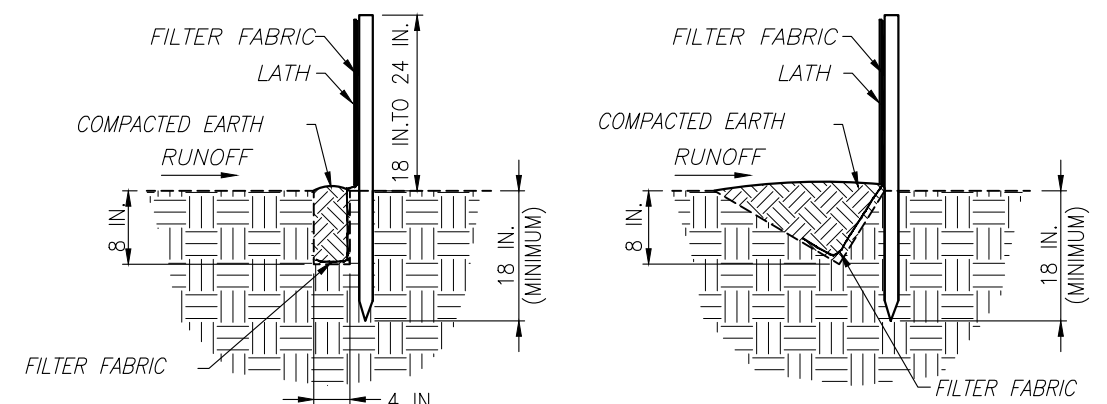
STABILIZED CONSTRUCTION ENTRANCE

N.T.S.



FABRIC ATTACHMENT DETAIL

SILT FENCE INSTALLATION



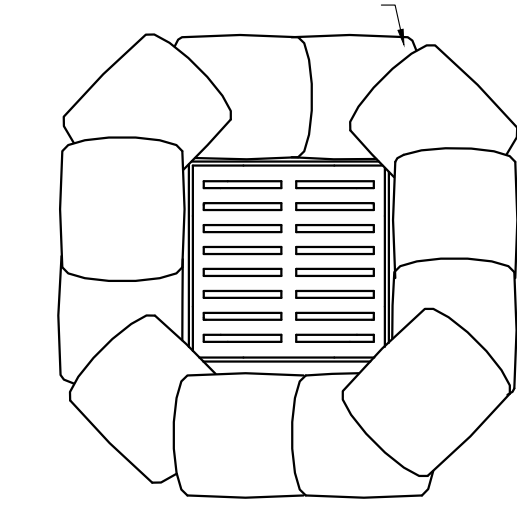
FLAT-BOTTOM TRENCH SECTION

V-SHAPED TRENCH SECTION

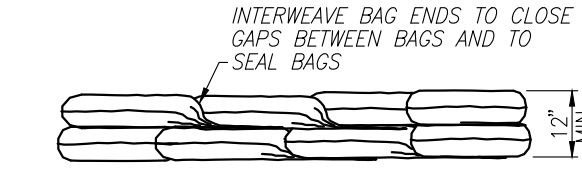
SILT FENCE

N.T.S.

18-1/2" x 18" WOVEN POLYPROPYLENE BAGS. FILL EACH BAG 1/2-2/3 FULL WITH NO. 57 STONE. SURROUND INLET WITH TWO COURSES OF BAGS, MINIMUM.



PLAN VIEW

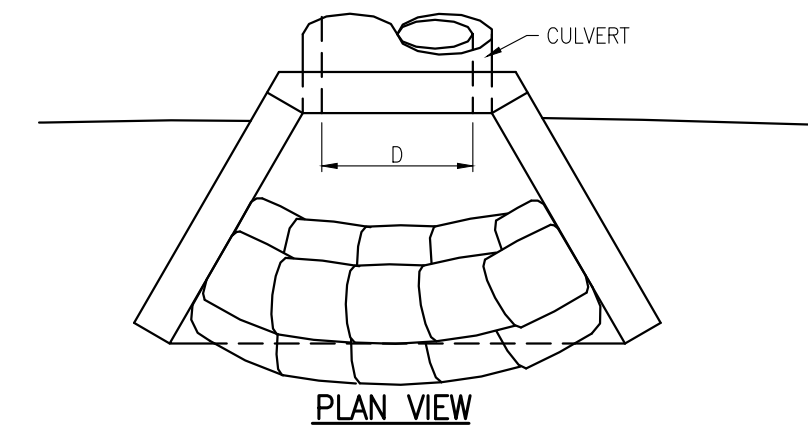


SIDE VIEW

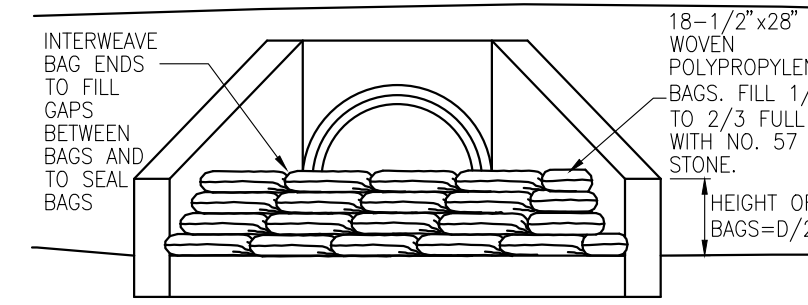
- NOTES:
1) THE 12-INCH HEIGHT REQUIREMENT IS WAIVED IN CASES WHERE IT WILL CAUSE FLOOD DAMAGE IF THE STONE BAGS ARE OVERTOPPED.
2) STONE BAG INLET PROTECTION IS SUITABLE FOR USE IN BOTH PAVED AND UNPAVED AREAS.
3) MAXIMUM CONTRIBUTING DRAINAGE AREA = 1 ACRE.

STONE BAG INLET PROTECTION

N.T.S.

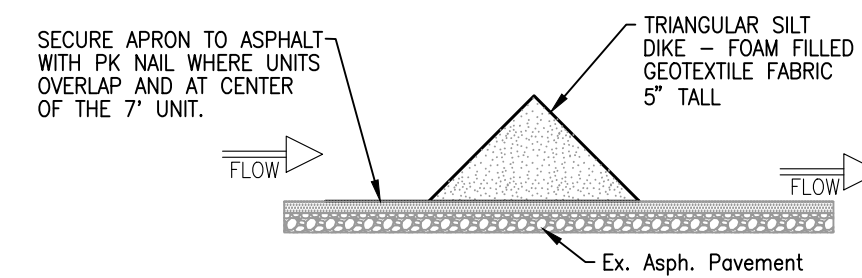


PLAN VIEW



UPSTREAM ELEVATION HEADWALL INLET PROTECTION

N.T.S.



TRIANGULAR SILT DIKE

(OR APPROVED EQUAL)

N.T.S.



dTb
db tarr
& company
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French Lick, IN 47432
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812.278.0060



NOT FOR
CONSTRUCTION

Town of Clarksville
Public Works Facility
1 Leuthart Drive
Clarksville, IN 47129



Produced By: CGH

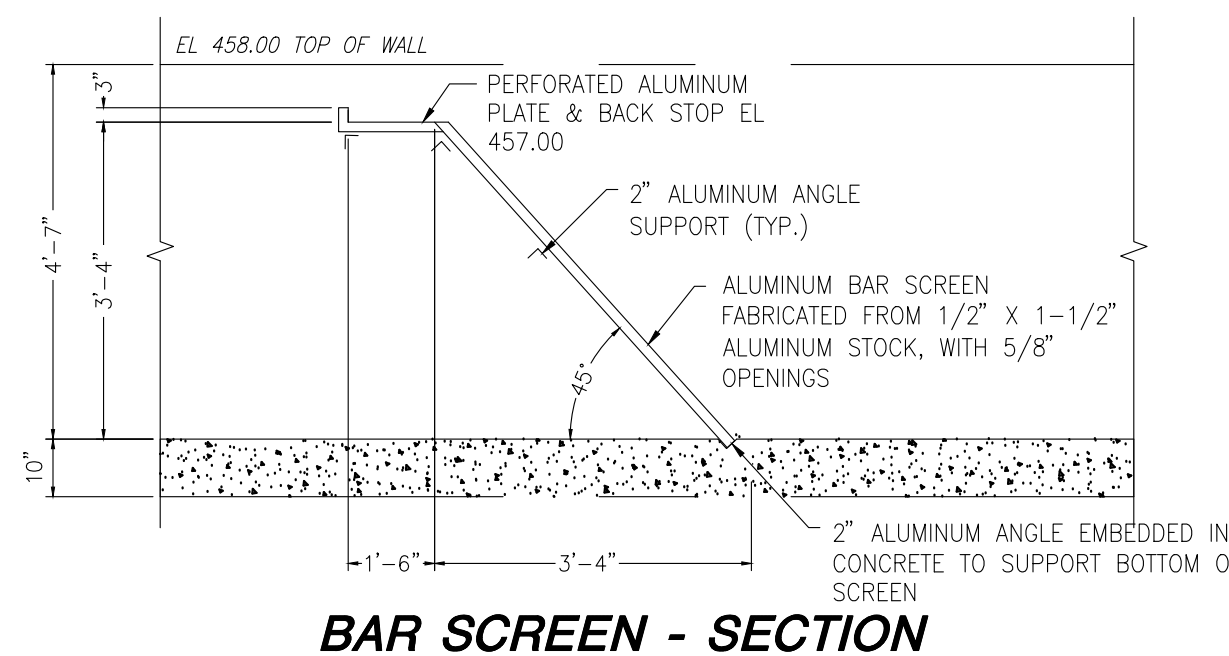
Coordinated By: CGH

Q.C. Checked By: DVSD

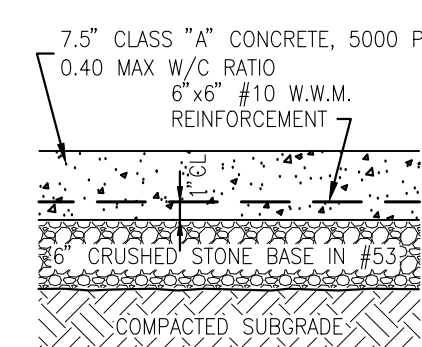
PROJECT STATUS	
TRC SUBMITTAL No. 1	8/21/2020

DETAILS

C9.1

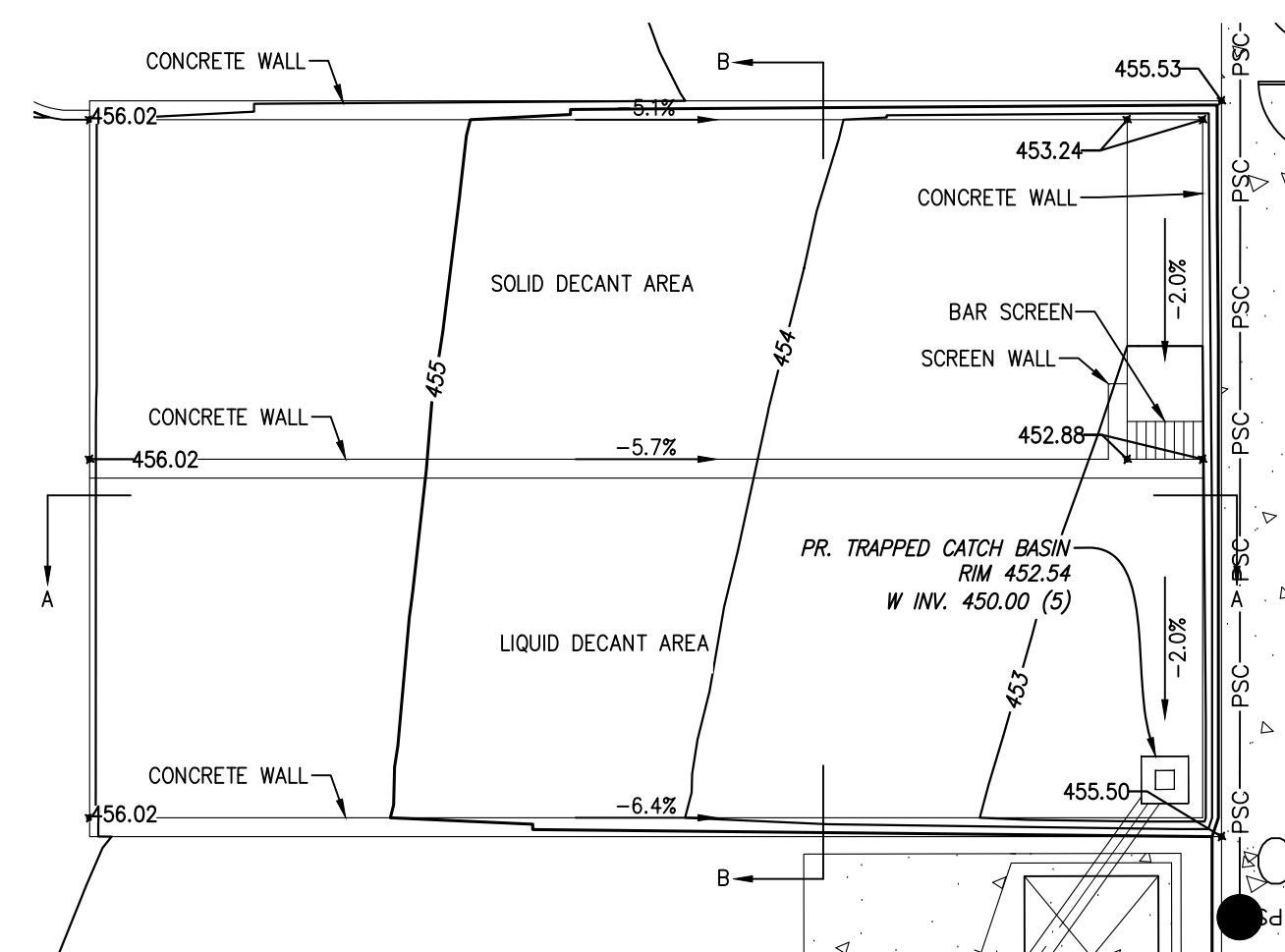


BAR SCREEN - SECTION



WASH BAY CONCRETE DETAIL

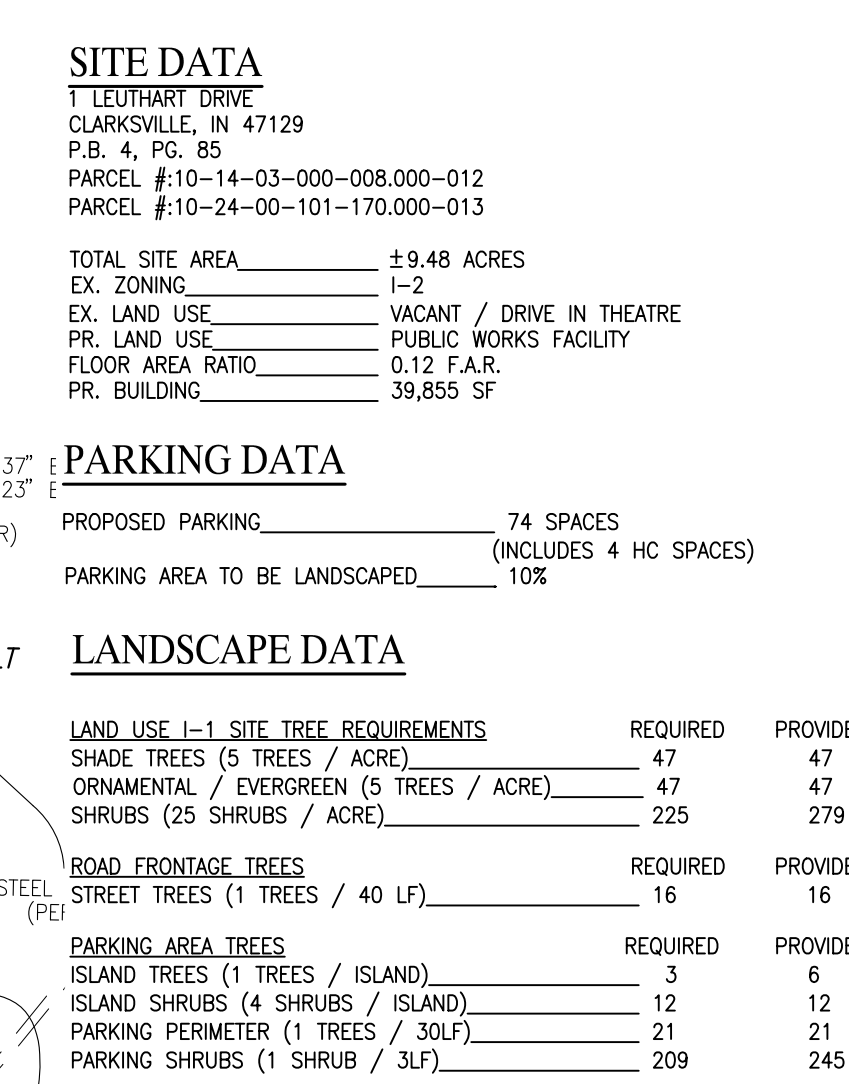
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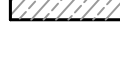


NOTE: SEE STRUCTURAL SHEET S4.2 FOR WASH BAY RETAINING WALLS AND FOUNDATION DETAILS.

WASH BAY LAYOUT AND DETAILS

N.T.S.



TREES							
Symbol	Alias	Scientific Name	Common Name	Condition	Size	Quantity	Comments
	AR	Acer Rubrum	Red Maple	B & B	2' Cal -8"min.HT	11	SHADE TREE
	BN	Betula nigra 'Duraheat'	Duraheat River Birch	B & B	2' Cal -8"min.HT	12	SHADE TREE
	PA	Platanus X acerifolia	London Planetree	B & B	2' Cal -8"min.HT	11	SHADE TREE
	CC	Cercis canadensis 'Royal White'	Royal White Redbud	B & B	2' Cal -8"min.HT	16	ORNAMENTAL TREE
	MV	Magnolia Virginiana	Sweetbay Magnolia	B & B	2' Cal -8"min.HT	7	ORNAMENTAL TREE
	LT	Liriodendron Tulipifera	Tulip Poplar	B & B	2' Cal -8"min.HT	13	SHADE TREE
	PP	Picea pungens	Blue spruce	B & B	6"min.HT	11	EVERGREEN TREE
	TO	Thuja Occidentalis	Arborvitae	B & B	6"min.HT	8	EVERGREEN TREE
	NS	Picea abies	Norway Spruce	B & B	6"min.HT	5	EVERGREEN TREE
SHRUBS							
	CA	Pennisetum alopecuroides 'Hameln'	Dwarf Hameln Grass	3-Gal.	18" min	59	4' OC
	IV	Itlea virginica 'Henry's Garnet'	Swetspire	3-Gal.	18" min	48	4' OC
	PV	Panicum virgatum 'North Wind'	North Wind Switchgrass	3-Gal.	18" min	34	4' OC
	VD	Viburnum dentatum	Arrowwood Viburnum	3-Gal.	18" min	29	4' OC
	CS	Cornus sericea 'Cardinal'	Red Twig Dogwood	3-Gal.	18" min	31	4' OC
	SH	Sporobolus heterolepis	Prairie Dropseed	3-Gal.	18" min	14	4' OC
	IG	Ilex glabra 'Compacta'	Inkberry Holly	3-Gal.	18" min	9	4' OC
GROUND COVER							
	RIVER ROCK		River Rock	203 SF OF MULCH @ 3" DEPTH = 1.88 CY			
	RAINGARDEN MIX		Cypress Mulch	4,529 SF OF MULCH @ 3" DEPTH = 41.93 CY			

PLANTING NOTES:

- 1) ALL PLANT MATERIALS SHALL CONFORM TO AMERICAN ASSOCIATION OF NURSESMEN STANDARDS REGARDING PLANT SIZE, FORM, AND ROOT DEVELOPMENT.
- 2) PLANTS SHALL HAVE A HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES AND SHALL BE SOUND, HEALTHY, VIGOROUS, AND FREE FROM INSECTS, PESTS, PLANT DISEASES AND INJURIES. ALL PLANTS SHALL EQUAL OR EXCEED THE MEASUREMENTS SPECIFIED IN THE PLANT LIST, WHICH ARE MINIMAL ACCEPTABLE SIZES, AND BE MEASURED BEFORE PRUNING.
- 3) VERIFICATION OF TOTAL QUANTITIES AS SHOWN IN THE "PLANT LIST" SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND THE KEYED PLAN SHALL GOVERN.
- 4) DO NOT DISPERSE SOIL EXCAVATED FROM PLANTING PITS OVER PLANT BED SURFACES.
- 5) ALL PLANTING BEDS TO HAVE 3" SHREDDED HARDWOOD MULCH APPLIED BY THE CONTRACTOR. HOLD MULCH AT LEAST 3" AWAY FROM TRUNKS OF TREES AND SHRUBS.
- 6) THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL SITE ELEMENTS AND UTILITIES. CALL INDIANA 811 VERIFY THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, NOTIFY THE OWNER OR OWNERS REPRESENTATIVE IF OBSTRUCTIONS ARE ENCOUNTERED. NECESSARY ADJUSTMENTS SHALL BE MADE ONLY UPON THE APPROVAL OF THE OWNER OR OWNERS REPRESENTATIVE.
- 7) THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF THE PLANTINGS. THE OWNER OR OWNERS REPRESENTATIVE SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION PRIOR TO OPENING ANY PLANTING PITS.
- 8) NOTIFY THE OWNER OR OWNERS REPRESENTATIVE PRIOR TO INSTALLING THE PLANTS IF UNSATISFACTORY SOIL/IRRIGATION CONDITIONS, SUCH AS SOIL DEPTH, ROCK, DRAINAGE PROBLEMS, UTILITIES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS ARE ENCOUNTERED. OTHERWISE, THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.
- 9) NO EXCAVATION OR PLANTING PIT SHALL BE LEFT OPEN OR UNATTENDED OVERNIGHT.
- 10) ALL CORDS AND BINDINGS SHALL BE CUT FROM PLANTS PRIOR TO PLANTING. THE TOP ONE-THIRD (1/3) OF BURLAP SHALL BE REMOVED FROM THE ROOT BALL PRIOR TO BACKFILLING.
- 11) THE LANDSCAPE CONTRACTOR SHALL CLEAN THE SITE OF THEIR DEBRIS AT THE COMPLETION OF EACH DAYS WORK AND SHALL MAINTAIN THE SITE IN A REASONABLY NEAT AND CLEAN STATE THROUGHOUT THE INSTALLATION PROCESS. STREETS AND PAVED AREAS SHALL BE CLEANED REGULARLY TO REMOVE CONSTRUCTION MATERIALS, MUD, DIRT AND OTHER DEBRIS RESULTING FROM THE LANDSCAPE CONTRACTORS WORK.
- 12) THE GROUND PLANE OF ALL THE SITE (INCLUDING LANDSCAPE ISLANDS) SHALL BE PLANTED WITH EITHER SHRUBS, GROUNDCOVER, OR TURF.
- 13) ALL UNHEALTHY OR DEAD PLANT MATERIAL SHALL BE REPLACED WITHIN ONE YEAR, OR BY THE NEXT PLANTING PERIOD, WHICHEVER COMES FIRST, WHILE OTHER DEFECTIVE PLANT MATERIAL SHALL BE REPLACED OR REPAIRED WITHIN THREE (3) MONTHS.

